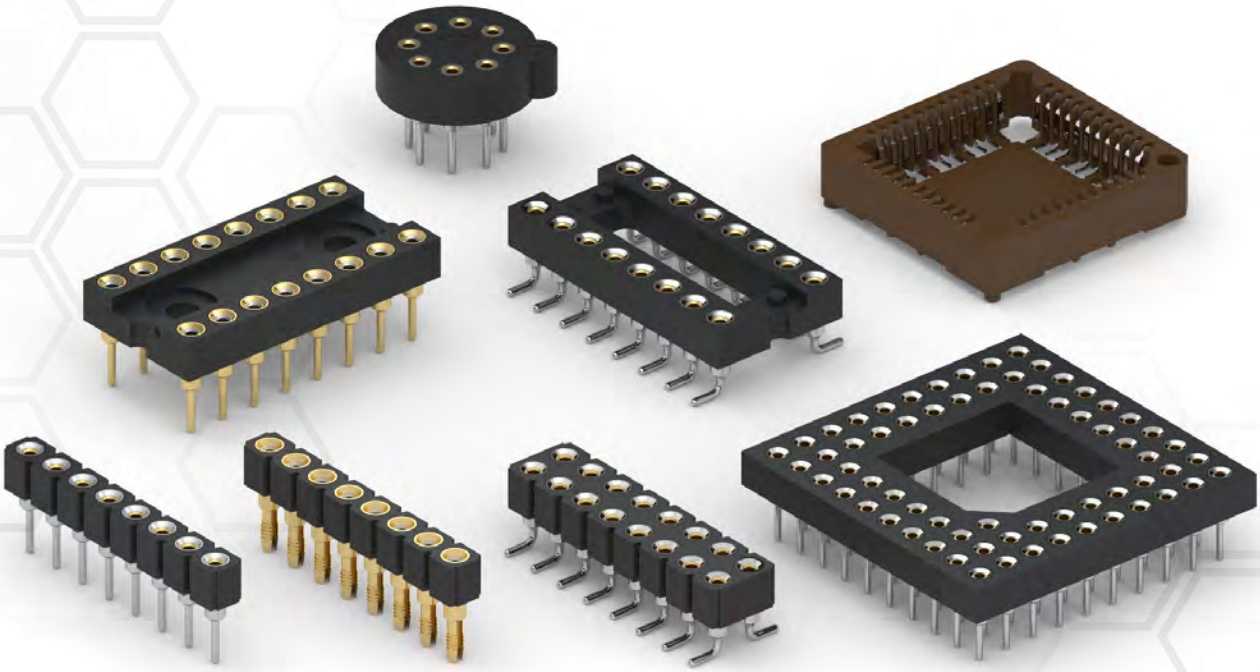
WWW.MILL-MAX.COM

IC SOCKETS
TO SOCKETS



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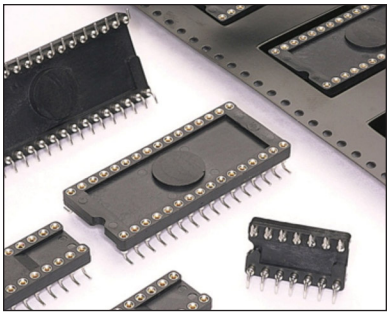
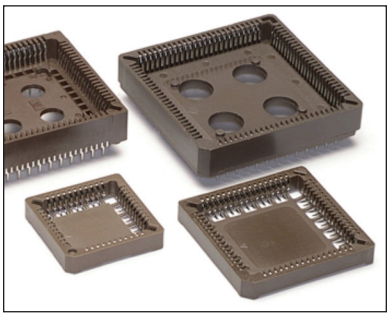
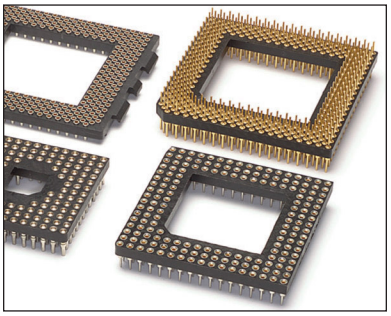
MILL-MAX IC SOCKETS PROVIDE A VARIETY OF OPTIONS FOR MAKING DEVICE-TO-BOARD CONNECTIONS. Our IC Sockets utilize the Mill-Max receptacle as the connection between the IC device and the circuit board. The precision-machined receptacle shell is available in multiple variations to fit many applications. We offer a wide choice of sockets in several board termination types including: solder-tail, press-fit, surface mount and wrapost. These sockets allow for upgradeability and field repair and provide versatility for device substitution between models of a product line.

IC Sockets can be loaded manually for soldering or press-fitting, or when volume placement is required, sockets can be packaged on tape and reel providing labor-saving solutions for our customers.

We will gladly quote custom application-specific products in addition to the products found on the following pages.

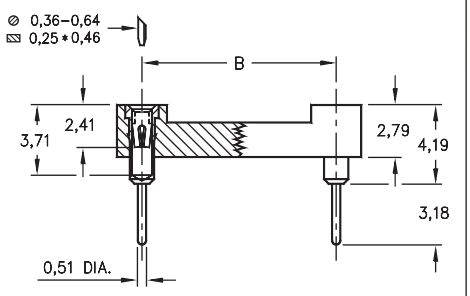






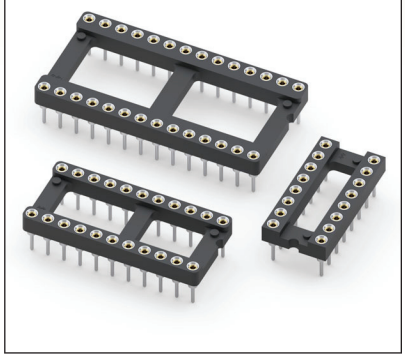
DUAL-IN-LINE SOCKETS

SERIES 110...001 • STANDARD SOLDER TAIL • OPEN FRAME



See page 130 for Insulator Details

- All DIP sockets accept 0,38 - 0,64 diameter and standard IC leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	110-XX-210-41-001000
4	5,0	7,62	10,1	102	110-XX-304-41-001000
6	7,6	7,62	10,1	67	110-XX-306-41-001000
8	10,1	7,62	10,1	50	110-XX-308-41-001000
10	12,6	7,62	10,1	40	110-XX-310-41-001000
14	17,7	7,62	10,1	28	110-XX-314-41-001000
16	20,3	7,62	10,1	25	110-XX-316-41-001000
18	22,8	7,62	10,1	22	110-XX-318-41-001000
20	25,3	7,62	10,1	20	110-XX-320-41-001000
22	27,8	7,62	10,1	18	110-XX-322-41-001000
24	30,4	7,62	10,1	16	110-XX-324-41-001000
28	35,5	7,62	10,1	14	110-XX-328-41-001000
20	25,4	10,16	12,7	20	110-XX-420-41-001000
22	27,8	10,16	12,7	18	110-XX-422-41-001000
24	30,4	10,16	12,7	16	110-XX-424-41-001000
28	35,5	10,16	12,7	14	110-XX-428-41-001000
32	40,6	10,16	12,7	12	110-XX-432-41-001000
24	30,4	15,24	17,7	16	110-XX-624-41-001000
28	35,5	15,24	17,7	14	110-XX-628-41-001000
32	40,6	15,24	17,7	12	110-XX-632-41-001000
36	45,7	15,24	17,7	11	110-XX-636-41-001000
40	50,8	15,24	17,7	10	110-XX-640-41-001000
42	53,3	15,24	17,7	9	110-XX-642-41-001000
48	60,9	15,24	17,7	8	110-XX-648-41-001000
50	63,5	15,24	17,7	8	110-XX-650-41-001000
52	66,0	15,24	17,7	7	110-XX-652-41-001000
50	63,5	22,86	25,3	8	110-XX-950-41-001000
52	66,0	22,86	25,3	7	110-XX-952-41-001000
64	81,2	22,86	25,3	6	110-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

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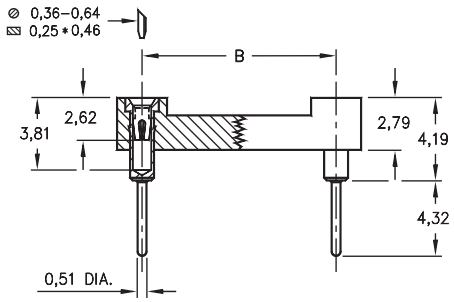
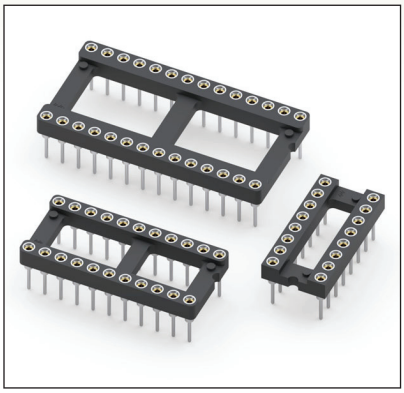
DUAL-IN-LINE SOCKETS

SERIES 111 • LONG SOLDER TAIL FOR MULTI-LAYER PCB • OPEN FRAME



See page 130 for Insulator Details

- DIP sockets with increased solder tail length of 4,32, allowing application on multi-layer PCBs up to 3,53mm thick
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 111 uses MM #0134 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	
10	12,6	5,08	7,6	40	111-XX-210-41-001000
4	5,0	7,62	10,1	102	111-XX-304-41-001000
6	7,6	7,62	10,1	67	111-XX-306-41-001000
8	10,1	7,62	10,1	50	111-XX-308-41-001000
10	12,6	7,62	10,1	40	111-XX-310-41-001000
14	17,7	7,62	10,1	28	111-XX-314-41-001000
16	20,3	7,62	10,1	25	111-XX-316-41-001000
18	22,8	7,62	10,1	22	111-XX-318-41-001000
20	25,3	7,62	10,1	20	111-XX-320-41-001000
22	27,8	7,62	10,1	18	111-XX-322-41-001000
24	30,4	7,62	10,1	16	111-XX-324-41-001000
28	35,5	7,62	10,1	14	111-XX-328-41-001000
20	25,4	10,16	12,7	20	111-XX-420-41-001000
22	27,8	10,16	12,7	18	111-XX-422-41-001000
24	30,4	10,16	12,7	16	111-XX-424-41-001000
28	35,5	10,16	12,7	14	111-XX-428-41-001000
32	40,6	10,16	12,7	12	111-XX-432-41-001000
24	30,4	15,24	17,7	16	111-XX-624-41-001000
28	35,5	15,24	17,7	14	111-XX-628-41-001000
32	40,6	15,24	17,7	12	111-XX-632-41-001000
36	45,7	15,24	17,7	11	111-XX-636-41-001000
40	50,8	15,24	17,7	10	111-XX-640-41-001000
42	53,3	15,24	17,7	9	111-XX-642-41-001000
48	60,9	15,24	17,7	8	111-XX-648-41-001000
50	63,5	15,24	17,7	8	111-XX-650-41-001000
52	66,0	15,24	17,7	7	111-XX-652-41-001000
50	63,5	22,86	25,3	8	111-XX-950-41-001000
52	66,0	22,86	25,3	7	111-XX-952-41-001000
64	81,2	22,86	25,3	6	111-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,25µm Au		0,25µm Au	0,25µm Au	Au Flash

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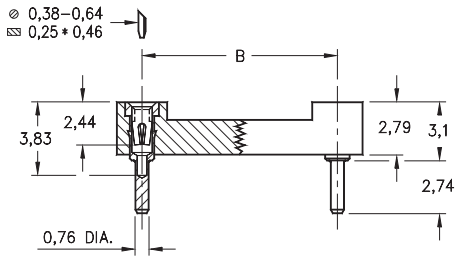
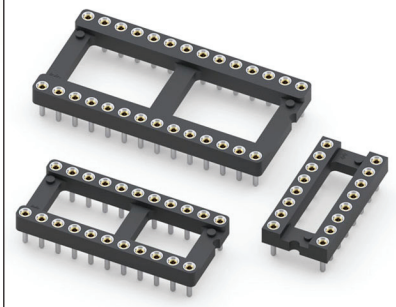
DUAL-IN-LINE SOCKETS

SERIES 115...001 • VERY LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Low profile DIP socket, sits only 3,1mm above the PCB
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 115 uses MM #0501 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	115-XX-210-41-001000
4	5,0	7,62	10,1	102	115-XX-304-41-001000
6	7,6	7,62	10,1	67	115-XX-306-41-001000
8	10,1	7,62	10,1	50	115-XX-308-41-001000
10	12,6	7,62	10,1	40	115-XX-310-41-001000
14	17,7	7,62	10,1	28	115-XX-314-41-001000
16	20,3	7,62	10,1	25	115-XX-316-41-001000
18	22,8	7,62	10,1	22	115-XX-318-41-001000
20	25,3	7,62	10,1	20	115-XX-320-41-001000
22	27,8	7,62	10,1	18	115-XX-322-41-001000
24	30,4	7,62	10,1	16	115-XX-324-41-001000
28	35,5	7,62	10,1	14	115-XX-328-41-001000
20	25,4	10,16	12,7	20	115-XX-420-41-001000
22	27,8	10,16	12,7	18	115-XX-422-41-001000
24	30,4	10,16	12,7	16	115-XX-424-41-001000
28	35,5	10,16	12,7	14	115-XX-428-41-001000
32	40,6	10,16	12,7	12	115-XX-432-41-001000
24	30,4	15,24	17,7	16	115-XX-624-41-001000
28	35,5	15,24	17,7	14	115-XX-628-41-001000
32	40,6	15,24	17,7	12	115-XX-632-41-001000
36	45,7	15,24	17,7	11	115-XX-636-41-001000
40	50,8	15,24	17,7	10	115-XX-640-41-001000
42	53,3	15,24	17,7	9	115-XX-642-41-001000
48	60,9	15,24	17,7	8	115-XX-648-41-001000
50	63,5	15,24	17,7	8	115-XX-650-41-001000
52	66,0	15,24	17,7	7	115-XX-652-41-001000
50	63,5	22,86	25,3	8	115-XX-950-41-001000
52	66,0	22,86	25,3	7	115-XX-952-41-001000
64	81,2	22,86	25,3	6	115-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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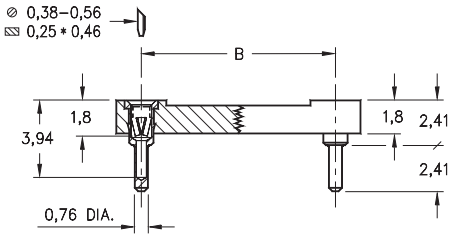
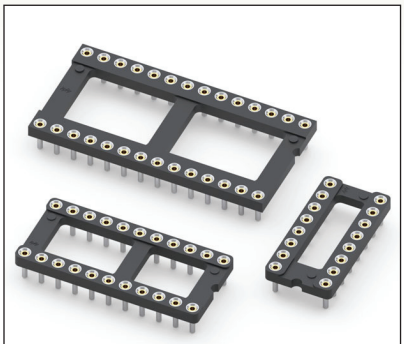
DUAL-IN-LINE SOCKETS

SERIES 115...003 • ULTRA LOW PROFILE • OPEN FRAME



See page 131 for Insulator Details

- Our lowest profile DIP socket with an above PCB height of only 2,41mm
- Special short Hi-Rel, 4-finger BeCu #12 contact is rated at 3 amps. See page 252 for details
- Series 115 uses MM #1534 pins. See page 161 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	68	115-XX-306-41-003000
8	10,1	7,62	10,1	50	115-XX-308-41-003000
14	17,7	7,62	10,1	28	115-XX-314-41-003000
16	20,3	7,62	10,1	25	115-XX-316-41-003000
18	22,8	7,62	10,1	22	115-XX-318-41-003000
20	25,3	7,62	10,1	20	115-XX-320-41-003000
22	27,8	7,62	10,1	18	115-XX-322-41-003000
24	30,4	7,62	10,1	16	115-XX-324-41-003000
28	35,5	7,62	10,1	14	115-XX-328-41-003000
20	25,4	10,16	12,7	20	115-XX-420-41-003000
22	27,8	10,16	12,7	18	115-XX-422-41-003000
24	30,4	10,16	12,7	16	115-XX-424-41-003000
28	35,5	10,16	12,7	14	115-XX-428-41-003000
24	30,4	15,24	17,7	16	115-XX-624-41-003000
28	35,5	15,24	17,7	14	115-XX-628-41-003000
32	40,6	15,24	17,7	12	115-XX-632-41-003000
36	45,7	15,24	17,7	11	115-XX-636-41-003000
40	50,8	15,24	17,7	10	115-XX-640-41-003000
48	60,9	15,24	17,7	8	115-XX-648-41-003000
50	63,5	15,24	17,7	8	115-XX-650-41-003000

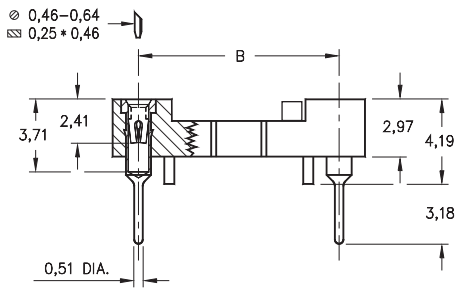
XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

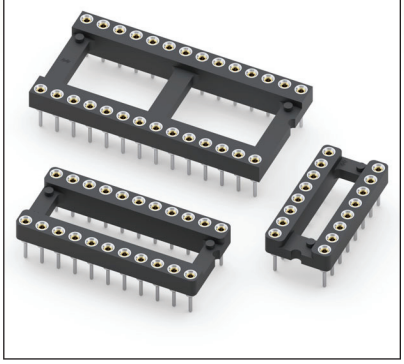
DUAL-IN-LINE SOCKETS

SERIES 110...605 • AUTOMATIC INSERTION • OPEN FRAME



See page 132 for Insulator Details

- High temperature thermoplastic insulator with standoffs is compatible with standard automatic insertion equipment and all soldering processes
- Soft copper alloy machined pins allow clinching. Chamfered contact entry allows for ease of IC insertion without bent leads
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1005 pins. See page 166 for details
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	67	110-XX-306-41-605000
8	10,1	7,62	10,1	50	110-XX-308-41-605000
14	17,7	7,62	10,1	28	110-XX-314-41-605000
16	20,3	7,62	10,1	25	110-XX-316-41-605000
18	22,8	7,62	10,1	22	110-XX-318-41-605000
20	25,3	7,62	10,1	20	110-XX-320-41-605000
24	30,4	7,62	10,1	16	110-XX-324-41-605000
22	27,8	10,16	12,7	18	110-XX-422-41-605000
24	30,4	15,24	17,7	16	110-XX-624-41-605000
28	35,5	15,24	17,7	14	110-XX-628-41-605000
32	40,6	15,24	17,7	12	110-XX-632-41-605000
40	50,8	15,24	17,7	10	110-XX-640-41-605000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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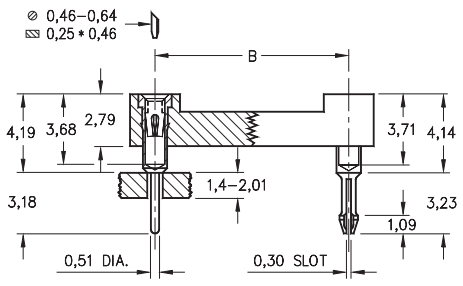
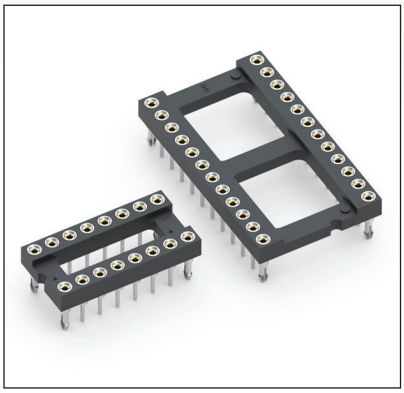
DUAL-IN-LINE SOCKETS

SERIES 101 • CLINCH PIN • OPEN FRAME



See page 130 for Insulator Details

- Special lock-down feature prevents floating of socket during soldering. Open insulator with ladder construction
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 101 uses MM #1001 and MM #0156 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
6	7,6	7,62	10,1	67	101-93-306-41-56X000
8	10,1	7,62	10,1	50	101-93-308-41-56X000
14	17,7	7,62	10,1	28	101-93-314-41-56X000
16	20,3	7,62	10,1	25	101-93-316-41-56X000
18	22,8	7,62	10,1	22	101-93-318-41-56X000
20	25,3	7,62	10,1	20	101-93-320-41-56X000
24	30,4	7,62	10,1	16	101-93-324-41-56X000
28	35,5	7,62	10,1	14	101-93-328-41-56X000
22	27,8	10,16	12,7	18	101-93-422-41-56X000
24	30,4	15,24	17,7	16	101-93-624-41-56X000
28	35,5	15,24	17,7	14	101-93-628-41-56X000
32	40,6	15,24	17,7	12	101-93-632-41-56X000
40	50,8	15,24	17,7	10	101-93-640-41-56X000
48	60,9	15,24	17,7	8	101-93-648-41-56X000
64	81,2	22,86	25,3	6	101-93-964-41-56X000

Clinch Pins:

Two Opposite Corner Pins **X = 0**

Four Corner Pins **X = 8**

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =			93				
Sleeve (Pin)			5,08µm Sn/Pb				
Contact (Clip)			0,76µm Au				

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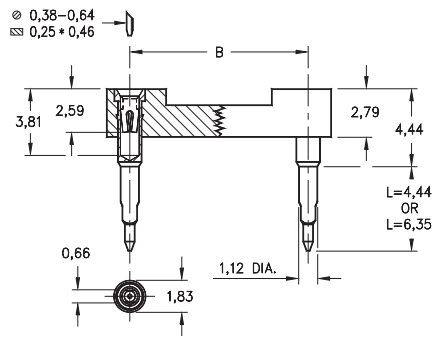
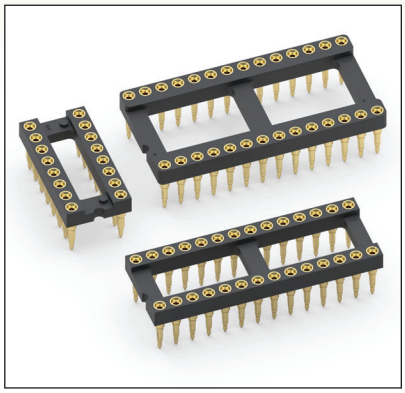
DUAL-IN-LINE SOCKETS

SERIES 104 • SOLDERLESS PRESS-FIT • OPEN FRAME



See page 130 for Insulator Details

- Designed for solderless press-fit into plated through-holes
- Pin lengths are suitable for 1,57 and 2,36 - 3,18 thick panels
- Required plated through hole is 0,91 - 1,04. Use a 1.1mm drill prior to plating
- Series 104 uses MM #0477 or MM #0478 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 4,44 (for 1,57 thick panel)	L = 6,35 (for 3,18 thick panel)
10	12,6	5,08	7,6	40	104-XX-210-41-770000	104-XX-210-41-780000
4	5,0	7,62	10,1	102	104-XX-304-41-770000	104-XX-304-41-780000
6	7,6	7,62	10,1	67	104-XX-306-41-770000	104-XX-306-41-780000
8	10,1	7,62	10,1	50	104-XX-308-41-770000	104-XX-308-41-780000
10	12,6	7,62	10,1	40	104-XX-310-41-770000	104-XX-310-41-780000
14	17,7	7,62	10,1	28	104-XX-314-41-770000	104-XX-314-41-780000
16	20,3	7,62	10,1	25	104-XX-316-41-770000	104-XX-316-41-780000
18	22,8	7,62	10,1	22	104-XX-318-41-770000	104-XX-318-41-780000
20	25,3	7,62	10,1	20	104-XX-320-41-770000	104-XX-320-41-780000
22	27,8	7,62	10,1	18	104-XX-322-41-770000	104-XX-322-41-780000
24	30,4	7,62	10,1	16	104-XX-324-41-770000	104-XX-324-41-780000
28	35,5	7,62	10,1	14	104-XX-328-41-770000	104-XX-328-41-780000
20	25,4	10,16	12,7	20	104-XX-420-41-770000	104-XX-420-41-780000
22	27,8	10,16	12,7	18	104-XX-422-41-770000	104-XX-422-41-780000
24	30,4	10,16	12,7	16	104-XX-424-41-770000	104-XX-424-41-780000
28	35,5	10,16	12,7	14	104-XX-428-41-770000	104-XX-428-41-780000
32	40,6	10,16	12,7	12	104-XX-432-41-770000	104-XX-432-41-780000
24	30,4	15,24	17,7	16	104-XX-624-41-770000	104-XX-624-41-780000
28	35,5	15,24	17,7	14	104-XX-628-41-770000	104-XX-628-41-780000
32	40,6	15,24	17,7	12	104-XX-632-41-770000	104-XX-632-41-780000
36	45,7	15,24	17,7	11	104-XX-636-41-770000	104-XX-636-41-780000
40	50,8	15,24	17,7	10	104-XX-640-41-770000	104-XX-640-41-780000
42	53,3	15,24	17,7	9	104-XX-642-41-770000	104-XX-642-41-780000
48	60,9	15,24	17,7	8	104-XX-648-41-770000	104-XX-648-41-780000
50	63,5	15,24	17,7	8	104-XX-650-41-770000	104-XX-650-41-780000
52	66,0	15,24	17,7	7	104-XX-652-41-770000	104-XX-652-41-780000
50	63,5	22,86	25,3	8	104-XX-950-41-770000	104-XX-950-41-780000
52	66,0	22,86	25,3	7	104-XX-952-41-770000	104-XX-952-41-780000
64	81,2	22,86	25,3	6	104-XX-964-41-770000	104-XX-964-41-780000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =	11 ◆	13 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au
Contact (Clip)	0,25µm Au	0,76µm Au

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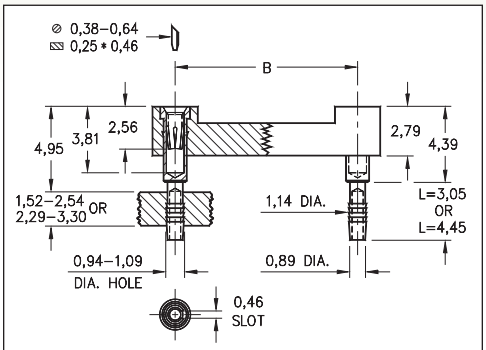
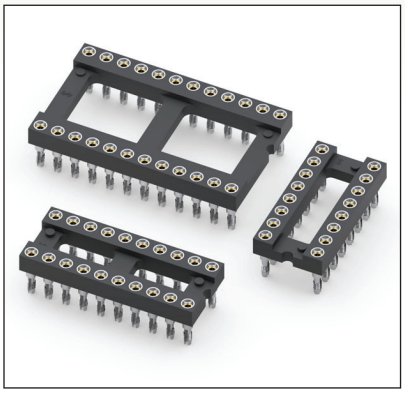
DUAL-IN-LINE SOCKETS

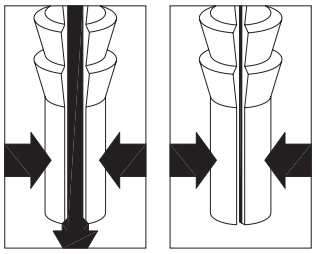
SERIES 146 • SOLDERLESS PRESS-FIT, COMPLIANT TAIL • OPEN FRAME



See page 130 for Insulator Details

- Unique compliant tail pins conform to a 1,02± 0,76 finished plated through hole diameter without stressing inner layers
- Two tails lengths are offered for 1,52 - 2,54 and 2,29 - 3,30 thick panels
- Series 146 uses MM #4612 or MM #4613 pins with a BeCu #30 contact, rated at 3 amps. See page 162 for details
- Insulators are high temperature thermoplastic
- For Electrical, Mechanical and Environmental Data, see page 264 for details





APPLICATION OF COMPLIANT TAIL PINS

Mill-Max's patented* precision-machined pins feature compliant tails that are hollow and slotted to conform to a 1,02 ± 0,76 diameter PTH. As the pin is inserted, the slot compresses to fit the PTH, thus avoiding damage (see illustration at left). The pin's tail has fine serrations that form a perfect "gas tight" connection that doesn't require soldering. And since the pin doesn't damage the hole, compliant tail sockets and connectors can be easily replaced.
*Patent No. 4,799,904.

ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 3,05 (for 1,52 - 2,54 thick panel)	L = 4,45 (for 2,29 - 3,30 thick panel)
6	7,6	7,62	10,1	67	146-XX-306-41-012000	146-XX-306-41-013000
8	10,1	7,62	10,1	50	146-XX-308-41-012000	146-XX-308-41-013000
14	17,7	7,62	10,1	28	146-XX-314-41-012000	146-XX-314-41-013000
16	20,3	7,62	10,1	25	146-XX-316-41-012000	146-XX-316-41-013000
18	22,8	7,62	10,1	22	146-XX-318-41-012000	146-XX-318-41-013000
20	25,3	7,62	10,1	20	146-XX-320-41-012000	146-XX-320-41-013000
24	30,4	7,62	10,1	16	146-XX-324-41-012000	146-XX-324-41-013000
22	27,8	10,16	12,7	18	146-XX-422-41-012000	146-XX-422-41-013000
24	30,4	15,24	17,7	16	146-XX-624-41-012000	146-XX-624-41-013000
28	35,5	15,24	17,7	14	146-XX-628-41-012000	146-XX-628-41-013000
32	40,6	15,24	17,7	12	146-XX-632-41-012000	146-XX-632-41-013000
40	50,8	15,24	17,7	10	146-XX-640-41-012000	146-XX-640-41-013000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,25µm Au		0,25µm Au	0,25µm Au	

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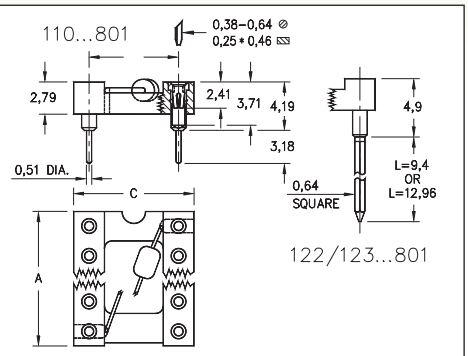
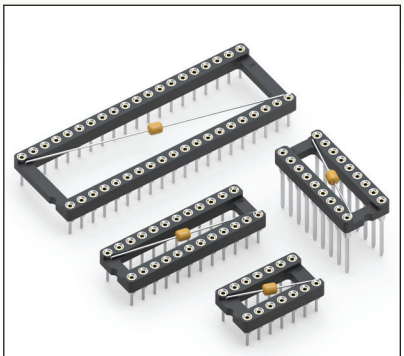
DUAL-IN-LINE SOCKETS

SERIES 110, 122, 123 • INTEGRAL DECOUPLING CAPACITOR • OPEN FRAME



See page 130 for Insulator Details

- Low profile DIP sockets w/ integral decoupling capacitor: .1µ F 20%-50V multi-layer ceramic epoxy encapsulated. Temp. range: -25° C to +85° C
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110, 122 and 123 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,96 (3 Level Wrapost)
14	17,7	7,62	10,1	28	110-XX-314-41-801000	122-XX-314-41-801000	123-XX-314-41-801000
16	20,3	7,62	10,1	25	110-XX-316-41-801000	122-XX-316-41-801000	123-XX-316-41-801000
18	22,8	7,62	10,1	22	110-XX-318-41-801000	122-XX-318-41-801000	123-XX-318-41-801000
20	25,3	7,62	10,1	20	110-XX-320-41-801000	122-XX-320-41-801000	123-XX-320-41-801000
22	27,8	7,62	10,1	18	110-XX-322-41-801000	122-XX-322-41-801000	123-XX-322-41-801000
24	30,4	7,62	10,1	16	110-XX-324-41-801000	122-XX-324-41-801000	123-XX-324-41-801000
28	35,5	7,62	10,1	14	110-XX-328-41-801000	122-XX-328-41-801000	123-XX-328-41-801000
24	30,4	15,24	17,7	16	110-XX-624-41-801000	122-XX-624-41-801000	123-XX-624-41-801000
28	35,5	15,24	17,7	14	110-XX-628-41-801000	122-XX-628-41-801000	123-XX-628-41-801000
32	40,6	15,24	17,7	12	110-XX-632-41-801000	122-XX-632-41-801000	123-XX-632-41-801000
40	50,8	15,24	17,7	10	110-XX-640-41-801000	122-XX-640-41-801000	123-XX-640-41-801000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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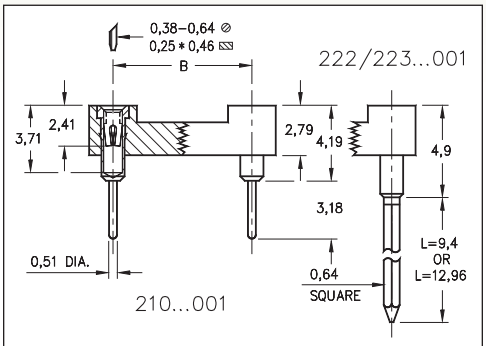
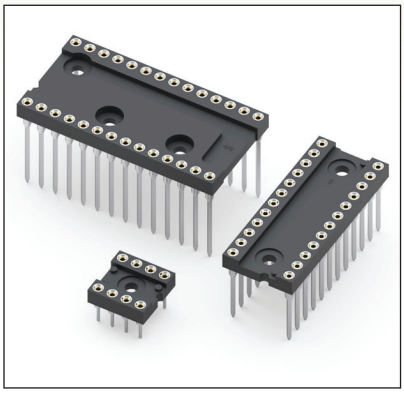
DUAL-IN-LINE SOCKETS

SERIES 210, 222, 223 • SOLDER TAIL AND WRAPOST • CLOSED FRAME



See page 131 for Insulator Details

- Closed frame insulator withstands high mechanical impact
- Available with standard solder pins, 2-level or 3-level wraposts
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210, 222 and 223 use MM #1001, #0088 or #0089 pins. See pages 165 & 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,96 (3 Level Wrapost)
6	7,6	7,62	10,1	67	210-XX-306-41-001000	222-XX-306-41-001000	223-XX-306-41-001000
8	10,1	7,62	10,1	50	210-XX-308-41-001000	222-XX-308-41-001000	223-XX-308-41-001000
10	12,6	7,62	10,1	40	210-XX-310-41-001000	222-XX-310-41-001000	223-XX-310-41-001000
14	17,7	7,62	10,1	28	210-XX-314-41-001000	222-XX-314-41-001000	223-XX-314-41-001000
16	20,3	7,62	10,1	25	210-XX-316-41-001000	222-XX-316-41-001000	223-XX-316-41-001000
18	22,8	7,62	10,1	22	210-XX-318-41-001000	222-XX-318-41-001000	223-XX-318-41-001000
20	25,3	7,62	10,1	20	210-XX-320-41-001000	222-XX-320-41-001000	223-XX-320-41-001000
22	27,8	7,62	10,1	18	210-XX-322-41-001000	222-XX-322-41-001000	223-XX-322-41-001000
24	30,4	7,62	10,1	16	210-XX-324-41-001000	222-XX-324-41-001000	223-XX-324-41-001000
22	27,8	10,16	12,7	18	210-XX-422-41-001000	222-XX-422-41-001000	223-XX-422-41-001000
24	30,4	10,16	12,7	16	210-XX-424-41-001000	222-XX-424-41-001000	223-XX-424-41-001000
24	30,4	15,24	17,7	16	210-XX-624-41-001000	222-XX-624-41-001000	223-XX-624-41-001000
28	35,5	15,24	17,7	14	210-XX-628-41-001000	222-XX-628-41-001000	223-XX-628-41-001000
32	40,6	15,24	17,7	12	210-XX-632-41-001000	222-XX-632-41-001000	223-XX-632-41-001000
36	45,7	15,24	17,7	11	210-XX-636-41-001000	222-XX-636-41-001000	223-XX-636-41-001000
40	50,8	15,24	17,7	10	210-XX-640-41-001000	222-XX-640-41-001000	223-XX-640-41-001000
64	81,2	22,86	25,3	6	210-XX-964-41-001000	222-XX-964-41-001000	223-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =	11 ◆	13 ◆	91	93	99	41 ◆	43 ◆	44 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb	0,25µm Au	0,76µm Au	2,54µm Sn	Au Flash

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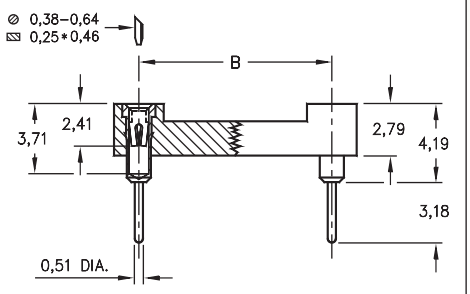
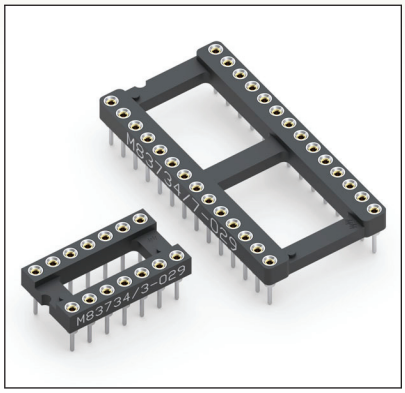
DUAL-IN-LINE SOCKETS

SERIES 110...530 • MIL-DTL-83734 APPROVED, SOLDER TAIL • OPEN FRAME



See page 130 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 110 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
8	10,1	7,62	10,1	50	110-XX-308-41-530000	M83734/2-YYY
14	17,7	7,62	10,1	28	110-XX-314-41-530000	M83734/3-YYY
16	20,3	7,62	10,1	25	110-XX-316-41-530000	M83734/4-YYY
18	22,8	7,62	10,1	22	110-XX-318-41-530000	M83734/5-YYY
20	25,3	7,62	10,1	20	110-XX-320-41-530000	M83734/13-YYY
22	27,8	10,16	12,7	18	110-XX-422-41-530000	M83734/6-YYY
24	30,4	15,24	17,7	16	110-XX-624-41-530000	M83734/8-YYY
28	35,5	15,24	17,7	14	110-XX-628-41-530000	M83734/7-YYY
40	50,8	15,24	17,7	10	110-XX-640-41-530000	M83734/10-YYY
48	60,9	15,24	17,7	8	110-XX-648-41-530000	M83734/14-YYY
64	81,2	22,86	25,3	6	110-XX-964-41-530000	M83734/15-YYY

XX=Plating Code See Below

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
FOR MILITARY PLATING CODE YYY =	028	029	030
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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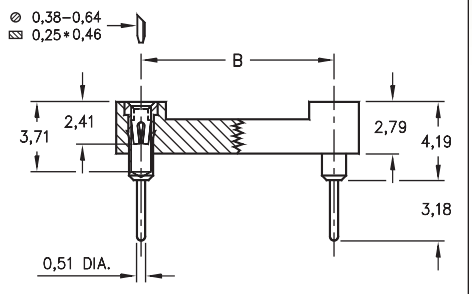
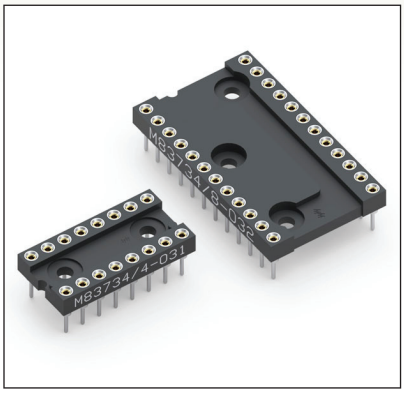
DUAL-IN-LINE SOCKETS

SERIES 210...101 • MIL-DTL-83734 APPROVED, SOLDER TAIL • CLOSED FRAME



See page 131 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Packaged in tubes compatible with automatic insertion equipment
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 210 uses MM #1001 pins. See page 165 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
6	7,6	7,62	10,1	67	210-XX-306-41-101000	M83734/1-YYY
8	10,1	7,62	10,1	50	210-XX-308-41-101000	M83734/2-YYY
14	17,7	7,62	10,1	28	210-XX-314-41-101000	M83734/3-YYY
16	20,3	7,62	10,1	25	210-XX-316-41-101000	M83734/4-YYY
18	22,8	7,62	10,1	22	210-XX-318-41-101000	M83734/5-YYY
20	25,3	7,62	10,1	20	210-XX-320-41-101000	M83734/13-YYY
22	27,8	10,16	12,7	18	210-XX-422-41-101000	M83734/6-YYY
24	30,4	15,24	17,7	16	210-XX-624-41-101000	M83734/8-YYY
28	35,5	15,24	17,7	14	210-XX-628-41-101000	M83734/7-YYY
32	40,6	15,24	17,7	10	210-XX-632-41-101000	M83734/17-YYY
36	45,7	15,24	17,7	11	210-XX-636-41-101000	M83734/9-YYY
40	50,8	15,24	17,7	8	210-XX-640-41-101000	M83734/10-YYY
64	81,2	22,86	25,3	6	210-XX-964-41-101000	M83734/15-YYY

XX=Plating Code See Below

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
FOR MILITARY PLATING CODE YYY =	031	032	033
(6 PIN ONLY) YYY =	025	026	027
(32 PIN ONLY) YYY =	013	014	015
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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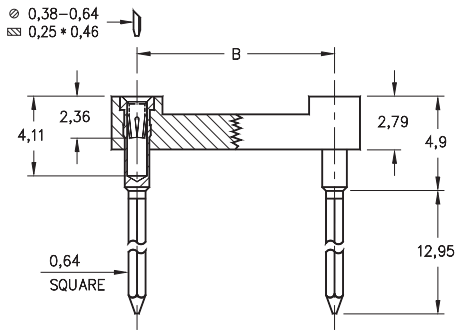
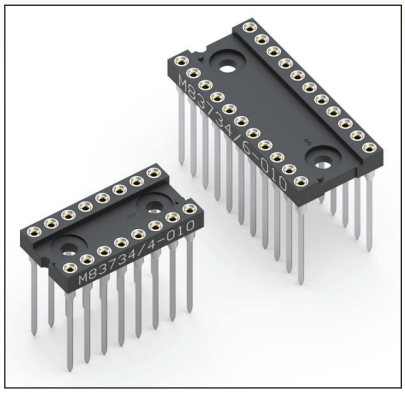
DUAL-IN-LINE SOCKETS

SERIES 223...101 • MIL-DTL-83734 APPROVED, 3 LEVEL WRAPOST • CLOSED FRAME



See page 131 for Insulator Details

- Sockets are XY stackable
- Socket pins feature closed end construction eliminating any solder wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 223 uses MM #0038-3 or #0088-3 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	Mill-Max Part Number	Military Part Number
6	7,6	7,62	10,1	67	223-XX-306-41-101000	M83734/1-YYY
8	10,1	7,62	10,1	50	223-XX-308-41-101000	M83734/2-YYY
14	17,7	7,62	10,1	28	223-XX-314-41-101000	M83734/3-YYY
16	20,3	7,62	10,1	25	223-XX-316-41-101000	M83734/4-YYY
18	22,8	7,62	10,1	22	223-XX-318-41-101000	M83734/5-YYY
20	25,3	7,62	10,1	20	223-XX-320-41-101000	M83734/13-YYY
22	27,8	10,16	12,7	18	223-XX-422-41-101000	M83734/6-YYY
24	30,4	15,24	17,7	16	223-XX-624-41-101000	M83734/8-YYY
28	35,5	15,24	17,7	14	223-XX-628-41-101000	M83734/7-YYY
32	40,6	15,24	17,7	12	223-XX-632-41-101000	M83734/17-YYY
36	45,7	15,24	17,7	11	223-XX-636-41-101000	M83734/9-YYY
40	50,8	15,24	17,7	10	223-XX-640-41-101000	M83734/10-YYY
64	81,2	22,86	25,3	6	223-XX-964-41-101000	M83734/15-YYY

SEE PAGE 103 FOR COMPLETE MIL-DTL-83734 QPL

SPECIFY MILL-MAX PLATING CODE XX =	33	83	88
SPECIFY MILL-MAX PLATING CODE XX =	010	011	012
(32 PIN ONLY) YYY =	007	008	009
Sleeve (Pin)	0,76µm min. Au	7,62µm Sn/Pb	7,62µm Sn/Pb
Contact (Clip)	0,76µm min. Au	0,76µm min. Au	2,54µm Sn/Pb

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DUAL-IN-LINE SOCKETS

DIP SOCKETS QUALIFIED TO MIL-DTL-83734

MIL SPEC #	MILL-MAX #
M83734/1-010	223-33-306-41-101000
M83734/1-011	223-83-306-41-101000
M83734/1-012	223-88-306-41-101000
M83734/1-025	210-33-306-41-101000
M83734/1-026	210-83-306-41-101000
M83734/1-027	210-88-306-41-101000
M83734/2-010	223-33-308-41-101000
M83734/2-011	223-83-308-41-101000
M83734/2-012	223-88-308-41-101000
M83734/2-028	110-33-308-41-530000
M83734/2-029	110-83-308-41-530000
M83734/2-030	110-88-308-41-530000
M83734/2-031	210-33-308-41-101000
M83734/2-032	210-83-308-41-101000
M83734/2-033	210-88-308-41-101000
M83734/3-010	223-33-314-41-101000
M83734/3-011	223-83-314-41-101000
M83734/3-012	223-88-314-41-101000
M83734/3-028	110-33-314-41-530000
M83734/3-029	110-83-314-41-530000
M83734/3-030	110-88-314-41-530000
M83734/3-031	210-33-314-41-101000
M83734/3-032	210-83-314-41-101000
M83734/3-033	210-88-314-41-101000
M83734/4-010	223-33-316-41-101000
M83734/4-011	223-83-316-41-101000
M83734/4-012	223-88-316-41-101000
M83734/4-028	110-33-316-41-530000
M83734/4-029	110-83-316-41-530000
M83734/4-030	110-88-316-41-530000
M83734/4-031	210-33-316-41-101000
M83734/4-032	210-83-316-41-101000
M83734/4-033	210-88-316-41-101000
M83734/5-010	223-33-318-41-101000
M83734/5-011	223-83-318-41-101000
M83734/5-012	223-88-318-41-101000
M83734/5-028	110-33-318-41-530000
M83734/5-029	110-83-318-41-530000
M83734/5-030	110-88-318-41-530000
M83734/5-031	210-33-318-41-101000
M83734/5-032	210-83-318-41-101000
M83734/5-033	210-88-318-41-101000
M83734/6-010	223-33-422-41-101000
M83734/6-011	223-83-422-41-101000
M83734/6-012	223-88-422-41-101000
M83734/6-028	110-33-422-41-530000
M83734/6-029	110-83-422-41-530000
M83734/6-030	110-88-422-41-530000
M83734/6-031	210-33-422-41-101000
M83734/6-032	210-83-422-41-101000
M83734/6-033	210-88-422-41-101000

MIL SPEC #	MILL-MAX #
M83734/7-010	223-33-628-41-101000
M83734/7-011	223-83-628-41-101000
M83734/7-012	223-88-628-41-101000
M83734/7-028	110-33-628-41-530000
M83734/7-029	110-83-628-41-530000
M83734/7-030	110-88-628-41-530000
M83734/7-031	210-33-628-41-101000
M83734/7-032	210-83-628-41-101000
M83734/7-033	210-88-628-41-101000
M83734/8-010	223-33-624-41-101000
M83734/8-011	223-83-624-41-101000
M83734/8-012	223-88-624-41-101000
M83734/8-028	110-33-624-41-530000
M83734/8-029	110-83-624-41-530000
M83734/8-030	110-88-624-41-530000
M83734/8-031	210-33-624-41-101000
M83734/8-032	210-83-624-41-101000
M83734/8-033	210-88-624-41-101000
M83734/9-010	223-33-636-41-101000
M83734/9-011	223-83-636-41-101000
M83734/9-012	223-88-636-41-101000
M83734/9-031	210-33-636-41-101000
M83734/9-032	210-83-636-41-101000
M83734/9-033	210-88-636-41-101000
M83734/10-010	223-33-640-41-101000
M83734/10-011	223-83-640-41-101000
M83734/10-012	223-88-640-41-101000
M83734/10-028	110-33-640-41-530000
M83734/10-029	110-83-640-41-530000
M83734/10-030	110-88-640-41-530000
M83734/10-031	210-33-640-41-101000
M83734/10-032	210-83-640-41-101000
M83734/10-033	210-88-640-41-101000
M83734/13-010	223-33-320-41-101000
M83734/13-011	223-83-320-41-101000
M83734/13-012	223-88-320-41-101000
M83734/13-028	110-33-320-41-530000
M83734/13-029	110-83-320-41-530000
M83734/13-030	110-88-320-41-530000
M83734/13-031	210-33-320-41-101000
M83734/13-032	210-83-320-41-101000
M83734/13-033	210-88-320-41-101000
M83734/14-028	110-33-648-41-530000
M83734/14-029	110-83-648-41-530000
M83734/14-030	110-88-648-41-530000
M83734/15-010	223-33-964-41-101000
M83734/15-011	223-83-964-41-101000
M83734/15-012	223-88-964-41-101000
M83734/15-028	110-33-964-41-530000
M83734/15-029	110-83-964-41-530000

MIL SPEC #	MILL-MAX #
M83734/15-030	110-88-964-41-530000
M83734/15-031	210-33-964-41-101000
M83734/15-032	210-83-964-41-101000
M83734/15-033	210-88-964-41-101000
M83734/17-001	221-33-632-41-101000
M83734/17-002	221-83-632-41-101000
M83734/17-003	221-88-632-41-101000
M83734/17-004	222-33-632-41-101000
M83734/17-005	222-83-632-41-101000
M83734/17-006	222-88-632-41-101000
M83734/17-007	223-33-632-41-101000
M83734/17-008	223-83-632-41-101000
M83734/17-009	223-88-632-41-101000
M83734/17-013	210-33-632-41-101000
M83734/17-014	210-83-632-41-101000
M83734/17-015	210-88-632-41-101000

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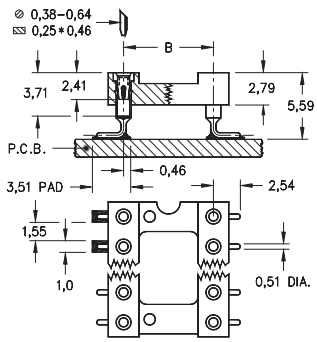
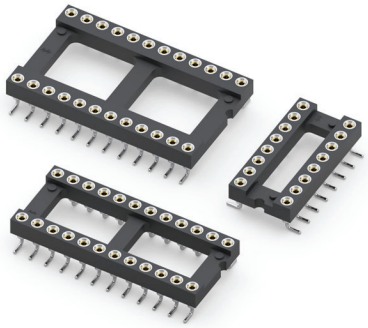
DUAL-IN-LINE SOCKETS

SERIES 110...105 • SURFACE MOUNT, GULL WING • OPEN FRAME



See page 130 for Insulator Details

- Socket pins feature closed end construction eliminating any solder wicking problems
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 110 uses Mill-Max #1005 pins. See page 166 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	110-XX-210-41-105000
4	5,0	7,62	10,1	102	110-XX-304-41-105000
6	7,6	7,62	10,1	67	110-XX-306-41-105000
8	10,1	7,62	10,1	50	110-XX-308-41-105000
10	12,6	7,62	10,1	40	110-XX-310-41-105000
14	17,7	7,62	10,1	28	110-XX-314-41-105000
16	20,3	7,62	10,1	25	110-XX-316-41-105000
18	22,8	7,62	10,1	22	110-XX-318-41-105000
20	25,3	7,62	10,1	20	110-XX-320-41-105000
22	27,8	7,62	10,1	18	110-XX-322-41-105000
24	30,4	7,62	10,1	16	110-XX-324-41-105000
28	35,5	7,62	10,1	14	110-XX-328-41-105000
20	25,4	10,16	12,7	20	110-XX-420-41-105000
22	27,8	10,16	12,7	18	110-XX-422-41-105000
24	30,4	10,16	12,7	16	110-XX-424-41-105000
28	35,5	10,16	12,7	14	110-XX-428-41-105000
32	40,6	10,16	12,7	12	110-XX-432-41-105000
24	30,4	15,24	17,7	16	110-XX-624-41-105000
28	35,5	15,24	17,7	14	110-XX-628-41-105000
32	40,6	15,24	17,7	12	110-XX-632-41-105000
36	45,7	15,24	17,7	11	110-XX-636-41-105000
40	50,8	15,24	17,7	10	110-XX-640-41-105000
42	53,3	15,24	17,7	9	110-XX-642-41-105000
48	60,9	15,24	17,7	8	110-XX-648-41-105000
50	63,5	15,24	17,7	8	110-XX-650-41-105000
52	66,0	15,24	17,7	7	110-XX-652-41-105000
50	63,5	22,86	25,3	8	110-XX-950-41-105000
52	66,0	22,86	25,3	7	110-XX-952-41-105000
64	81,2	22,86	25,3	6	110-XX-964-41-105000

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=		91	93			43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au			0,76µm Au	Au Flash

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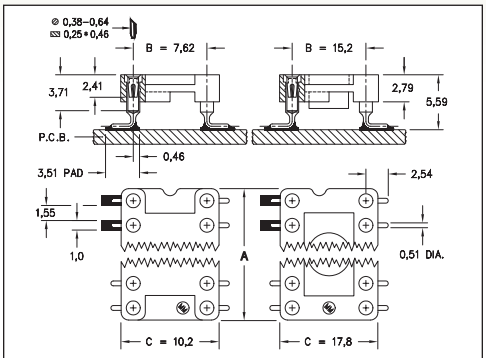
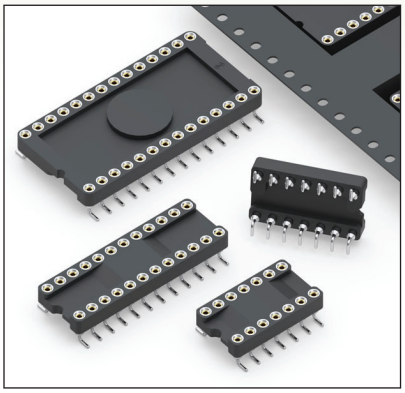
DUAL-IN-LINE SOCKETS

SERIES 210...105 • SMT, AUTO PLACEMENT, GULL WING • CLOSED FRAME



See page 131 for Insulator Details

- Closed frame insulator is vision system compatible
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints. Series 210 uses Mill-Max #1005 pins. See page 166 for details
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- High-temp Nylon 46 insulator is suitable for all forms of reflow soldering
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel
					VACUUM PAD TOP SURFACE ONLY			
6	7,6	7,62	10,1	67	210-XX-306-41-105000	210-XX-306-41-105799	16	400
8	10,1	7,62	10,1	50	210-XX-308-41-105000	210-XX-308-41-105799	24	400
14	17,7	7,62	10,1	28	210-XX-314-41-105000	210-XX-314-41-105799	32	400
16	20,3	7,62	10,1	25	210-XX-316-41-105000	210-XX-316-41-105799	32	400
18	22,8	7,62	10,1	22	210-XX-318-41-105000	210-XX-318-41-105799	44	400
20	25,3	7,62	10,1	20	210-XX-320-41-105000	210-XX-320-41-105799	44	400
24	30,4	7,62	10,1	16	210-XX-324-41-105000	210-XX-324-41-105799	44	400
					VACUUM PAD TOP AND BOTTOM			
24	30,4	15,24	17,7	16	210-XX-624-41-105000	210-XX-624-41-105799	44	300
28	35,5	15,24	17,7	14	210-XX-628-41-105000	210-XX-628-41-105799	56	300
32	40,6	15,24	17,7	12	210-XX-632-41-105000	210-XX-632-41-105799	56	300
40	50,8	15,24	17,7	10	210-XX-640-41-105000	NOT AVAILABLE		

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,76µm Au			0,76µm Au	

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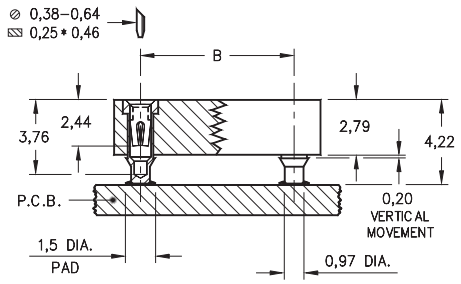
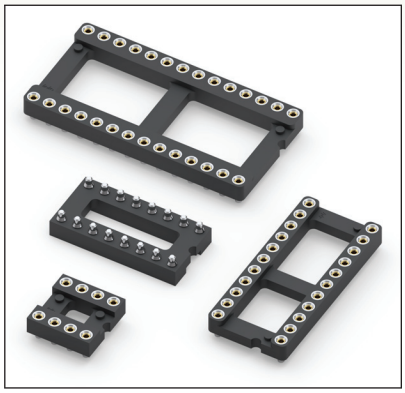
DUAL-IN-LINE SOCKETS

SERIES 114 • SURFACE MOUNT, STUB TAIL • OPEN FRAME



See page 130 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Socket pins feature closed end construction eliminating any solder/flux wicking problems
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 114 uses MM #1434 pins. See page 162 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	114-XX-210-41-117000
4	5,0	7,62	10,1	100	114-XX-304-41-117000
6	7,6	7,62	10,1	67	114-XX-306-41-117000
8	10,1	7,62	10,1	50	114-XX-308-41-117000
10	12,6	7,62	10,1	40	114-XX-310-41-117000
14	17,7	7,62	10,1	28	114-XX-314-41-117000
16	20,3	7,62	10,1	25	114-XX-316-41-117000
18	22,8	7,62	10,1	22	114-XX-318-41-117000
20	25,3	7,62	10,1	20	114-XX-320-41-117000
22	27,8	7,62	10,1	18	114-XX-322-41-117000
24	30,4	7,62	10,1	16	114-XX-324-41-117000
28	35,5	7,62	10,1	14	114-XX-328-41-117000
20	25,4	10,16	12,7	20	114-XX-420-41-117000
22	27,8	10,16	12,7	18	114-XX-422-41-117000
24	30,4	10,16	12,7	16	114-XX-424-41-117000
28	35,5	10,16	12,7	14	114-XX-428-41-117000
32	40,6	10,16	12,7	12	114-XX-432-41-117000
24	30,4	15,24	17,7	16	114-XX-624-41-117000
28	35,5	15,24	17,7	14	114-XX-628-41-117000
32	40,6	15,24	17,7	12	114-XX-632-41-117000
36	45,7	15,24	17,7	11	114-XX-636-41-117000
40	50,8	15,24	17,7	10	114-XX-640-41-117000
42	53,3	15,24	17,7	9	114-XX-642-41-117000
48	60,9	15,24	17,7	8	114-XX-648-41-117000
50	63,5	15,24	17,7	8	114-XX-650-41-117000
52	66,0	15,24	17,7	7	114-XX-652-41-117000
50	63,5	22,86	25,3	8	114-XX-950-41-117000
52	66,0	22,86	25,3	7	114-XX-952-41-117000
64	81,2	22,86	25,3	6	114-XX-964-41-117000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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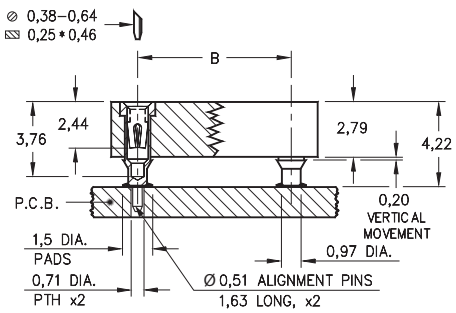
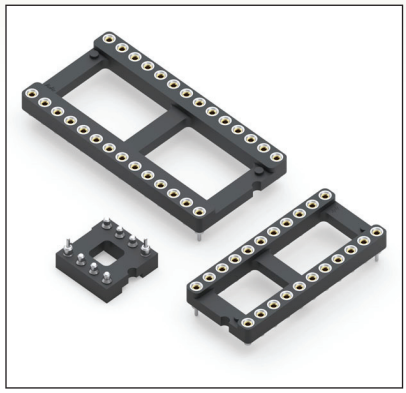
DUAL-IN-LINE SOCKETS

SERIES 113 • SURFACE MOUNT, STUB TAIL W/ ALIGNMENT PINS • OPEN FRAME



See page 130 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly dispensed solder paste
- Two corner alignment pins (power & ground positions) permit manual placement
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 113 uses MM #1334 and #1434 pins. See pages 162 and 171
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	41	113-XX-210-41-117000
4	5,0	7,62	10,1	100	113-XX-304-41-117000
6	7,6	7,62	10,1	67	113-XX-306-41-117000
8	10,1	7,62	10,1	50	113-XX-308-41-117000
10	12,6	7,62	10,1	40	113-XX-310-41-117000
14	17,7	7,62	10,1	28	113-XX-314-41-117000
16	20,3	7,62	10,1	25	113-XX-316-41-117000
18	22,8	7,62	10,1	22	113-XX-318-41-117000
20	25,3	7,62	10,1	20	113-XX-320-41-117000
22	27,8	7,62	10,1	18	113-XX-322-41-117000
24	30,4	7,62	10,1	16	113-XX-324-41-117000
28	35,5	7,62	10,1	14	113-XX-328-41-117000
20	25,4	10,16	12,7	20	113-XX-420-41-117000
22	27,8	10,16	12,7	18	113-XX-422-41-117000
24	30,4	10,16	12,7	16	113-XX-424-41-117000
28	35,5	10,16	12,7	14	113-XX-428-41-117000
32	40,6	10,16	12,7	12	113-XX-432-41-117000
24	30,4	15,24	17,7	16	113-XX-624-41-117000
28	35,5	15,24	17,7	14	113-XX-628-41-117000
32	40,6	15,24	17,7	12	113-XX-632-41-117000
36	45,7	15,24	17,7	11	113-XX-636-41-117000
40	50,8	15,24	17,7	10	113-XX-640-41-117000
42	53,3	15,24	17,7	9	113-XX-642-41-117000
48	60,9	15,24	17,7	8	113-XX-648-41-117000
50	63,5	15,24	17,7	8	113-XX-650-41-117000
52	66,0	15,24	17,7	7	113-XX-652-41-117000
50	63,5	22,86	25,3	8	113-XX-950-41-117000
52	66,0	22,86	25,3	7	113-XX-952-41-117000
64	81,2	22,86	25,3	6	113-XX-964-41-117000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,25µm Au			0,25µm Au	

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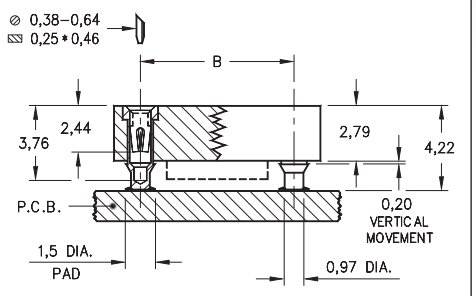
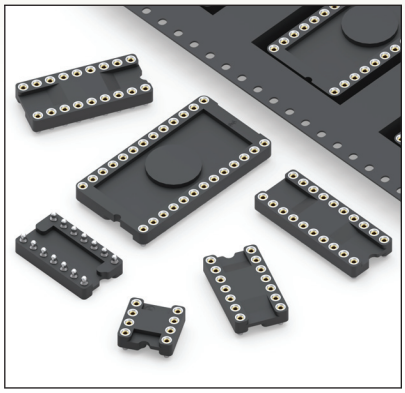
DUAL-IN-LINE SOCKETS

SERIES 214 • SURFACE MOUNT, AUTO PLACEMENT, STUB TAIL • CLOSED FRAME



See page 131 for Insulator Details

- Unique floating contacts compensate for the effects of unevenly screened solder paste
- Available packaged in tubes or on tape & reel per EIA-481
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 214 uses MM #1434 pins. See page 162 for details
- High temp. Nylon 46 insulator is suitable for all surface mount soldering processes. Closed frame insulator is vision system compatible
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tube Packaging	Tape & Reel Packaging	Tape Width (mm)	QTY per Reel
					VACUUM PAD TOP SURFACE ONLY			
6	7,6	7,62	10,1	67	214-XX-306-01-670800	214-XX-306-01-670799	16	750
8	10,1	7,62	10,1	50	214-XX-308-01-670800	214-XX-308-01-670799	16	1000
14	17,7	7,62	10,1	28	214-XX-314-01-670800	214-XX-314-01-670799	32	750
16	20,3	7,62	10,1	25	214-XX-316-01-670800	214-XX-316-01-670799	32	750
18	22,8	7,62	10,1	22	214-XX-318-01-670800	214-XX-318-01-670799	44	750
20	25,3	7,62	10,1	20	214-XX-320-01-670800	214-XX-320-01-670799	44	750
					VACUUM PAD TOP AND BOTTOM			
24	30,4	15,24	17,7	16	214-XX-624-01-670800	214-XX-624-01-670799	44	400
28	35,5	15,24	17,7	14	214-XX-628-01-670800	214-XX-628-01-670799	56	400
32	40,6	15,24	17,7	12	214-XX-632-01-670800	214-XX-632-01-670799	56	400
40	50,8	15,24	17,7	10	214-XX-640-01-670800	NOT AVAILABLE		

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				2,54µm Sn/Pb			2,54µm Sn

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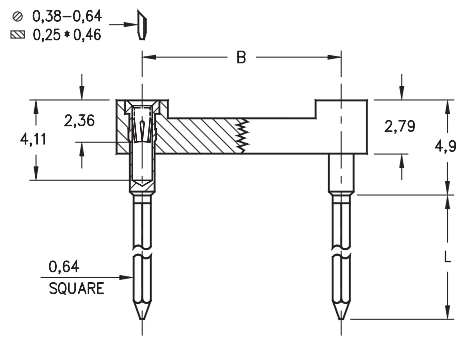
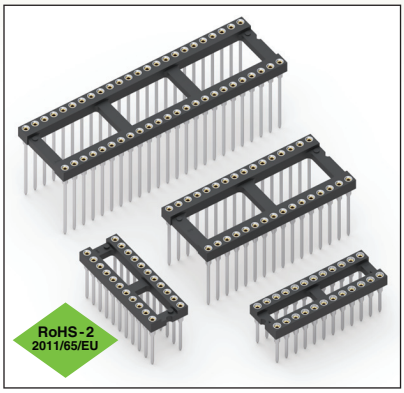
DUAL-IN-LINE SOCKETS

SERIES 121, 122, 123, 124 • 1 - 4 LEVEL WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Solderless wrapost terminals are firmly locked in the insulator body to withstand torque of a wrapping tool
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 121, 122, 123 and 124 use MM #0040, #0086, #0088 and #0089 pins. See page 198 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 6,6 (1 Level Wrapost)	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)	L = 16,0 (4 Level Wrapost)
10	12,6	5,08	7,6	40	121-XX-210-41-001000	122-XX-210-41-001000	123-XX-210-41-001000	124-XX-210-41-002000
								43 or 93 Plating Code ONLY
4	5,0	7,62	10,1	102	121-XX-304-41-001000	122-XX-304-41-001000	123-XX-304-41-001000	124-XX-304-41-002000
6	7,6	7,62	10,1	67	121-XX-306-41-001000	122-XX-306-41-001000	123-XX-306-41-001000	124-XX-306-41-002000
8	10,1	7,62	10,1	50	121-XX-308-41-001000	122-XX-308-41-001000	123-XX-308-41-001000	124-XX-308-41-002000
10	12,6	7,62	10,1	40	121-XX-310-41-001000	122-XX-310-41-001000	123-XX-310-41-001000	124-XX-310-41-002000
14	17,7	7,62	10,1	28	121-XX-314-41-001000	122-XX-314-41-001000	123-XX-314-41-001000	124-XX-314-41-002000
16	20,3	7,62	10,1	25	121-XX-316-41-001000	122-XX-316-41-001000	123-XX-316-41-001000	124-XX-316-41-002000
18	22,8	7,62	10,1	22	121-XX-318-41-001000	122-XX-318-41-001000	123-XX-318-41-001000	124-XX-318-41-002000
20	25,3	7,62	10,1	20	121-XX-320-41-001000	122-XX-320-41-001000	123-XX-320-41-001000	124-XX-320-41-002000
22	27,8	7,62	10,1	18	121-XX-322-41-001000	122-XX-322-41-001000	123-XX-322-41-001000	124-XX-322-41-002000
24	30,4	7,62	10,1	16	121-XX-324-41-001000	122-XX-324-41-001000	123-XX-324-41-001000	124-XX-324-41-002000
28	35,5	7,62	10,1	14	121-XX-328-41-001000	122-XX-328-41-001000	123-XX-328-41-001000	124-XX-328-41-002000
								43 or 93 Plating Code ONLY
20	25,4	10,16	12,7	20	121-XX-420-41-001000	122-XX-420-41-001000	123-XX-420-41-001000	124-XX-420-41-002000
22	27,8	10,16	12,7	18	121-XX-422-41-001000	122-XX-422-41-001000	123-XX-422-41-001000	124-XX-422-41-002000
24	30,4	10,16	12,7	16	121-XX-424-41-001000	122-XX-424-41-001000	123-XX-424-41-001000	124-XX-424-41-002000
28	35,5	10,16	12,7	14	121-XX-428-41-001000	122-XX-428-41-001000	123-XX-428-41-001000	124-XX-428-41-002000
32	40,6	10,16	12,7	12	121-XX-432-41-001000	122-XX-432-41-001000	123-XX-432-41-001000	124-XX-432-41-002000
								43 or 93 Plating Code ONLY
24	30,4	15,24	17,7	16	121-XX-624-41-001000	122-XX-624-41-001000	123-XX-624-41-001000	124-XX-624-41-002000
28	35,5	15,24	17,7	14	121-XX-628-41-001000	122-XX-628-41-001000	123-XX-628-41-001000	124-XX-628-41-002000
32	40,6	15,24	17,7	12	121-XX-632-41-001000	122-XX-632-41-001000	123-XX-632-41-001000	124-XX-632-41-002000
36	45,7	15,24	17,7	11	121-XX-636-41-001000	122-XX-636-41-001000	123-XX-636-41-001000	124-XX-636-41-002000
40	50,8	15,24	17,7	10	121-XX-640-41-001000	122-XX-640-41-001000	123-XX-640-41-001000	124-XX-640-41-002000
42	53,3	15,24	17,7	9	121-XX-642-41-001000	122-XX-642-41-001000	123-XX-642-41-001000	124-XX-642-41-002000
48	60,9	15,24	17,7	8	121-XX-648-41-001000	122-XX-648-41-001000	123-XX-648-41-001000	124-XX-648-41-002000
50	63,5	15,24	17,7	8	121-XX-650-41-001000	122-XX-650-41-001000	123-XX-650-41-001000	124-XX-650-41-002000
52	66,0	15,24	17,7	7	121-XX-652-41-001000	122-XX-652-41-001000	123-XX-652-41-001000	124-XX-652-41-002000
								43 or 93 Plating Code ONLY
50	63,5	22,86	25,3	8	121-XX-950-41-001000	122-XX-950-41-001000	123-XX-950-41-001000	124-XX-950-41-002000
52	66,0	22,86	25,3	7	121-XX-952-41-001000	122-XX-952-41-001000	123-XX-952-41-001000	124-XX-952-41-002000
64	81,2	22,86	25,3	6	121-XX-964-41-001000	122-XX-964-41-001000	123-XX-964-41-001000	124-XX-964-41-002000

SPECIFY PLATING CODE XX =	13 ◆	91	93	41 ◆	43 ◆	47 ◆
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	Au Flash

XX=Plating Code See to Left

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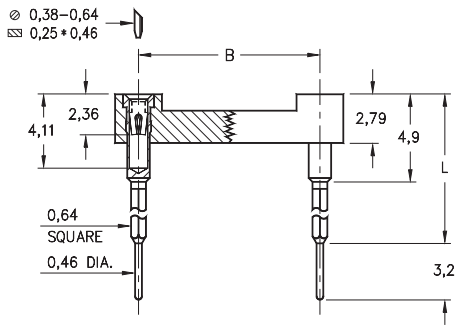
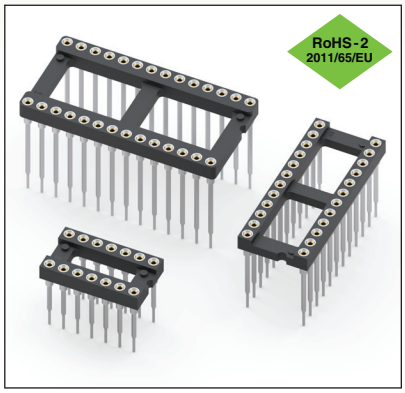
DUAL-IN-LINE SOCKETS

SERIES 126 • PLUGGABLE WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Combines one through three level wrapost with pluggable solder tails
- Suitable for use as an interconnect socket with intermediate wire wrapped connections
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 126 uses MM #2601, #2602 and #2603 pins. See page 199 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 10,8 (1 Level Wrapost = 5,89)	L = 13,79 (2 Level Wrapost = 8,89)	L = 16,79 (3 Level Wrapost = 11,9)
10	12,6	5,08	7,6	40	126-XX-210-41-001000	126-XX-210-41-002000	126-XX-210-41-003000
4	5,0	7,62	10,1	102	126-XX-304-41-001000	126-XX-304-41-002000	126-XX-304-41-003000
6	7,6	7,62	10,1	67	126-XX-306-41-001000	126-XX-306-41-002000	126-XX-306-41-003000
8	10,1	7,62	10,1	50	126-XX-308-41-001000	126-XX-308-41-002000	126-XX-308-41-003000
10	12,6	7,62	10,1	40	126-XX-310-41-001000	126-XX-310-41-002000	126-XX-310-41-003000
14	17,7	7,62	10,1	28	126-XX-314-41-001000	126-XX-314-41-002000	126-XX-314-41-003000
16	20,3	7,62	10,1	25	126-XX-316-41-001000	126-XX-316-41-002000	126-XX-316-41-003000
18	22,8	7,62	10,1	22	126-XX-318-41-001000	126-XX-318-41-002000	126-XX-318-41-003000
20	25,3	7,62	10,1	20	126-XX-320-41-001000	126-XX-320-41-002000	126-XX-320-41-003000
22	27,8	7,62	10,1	18	126-XX-322-41-001000	126-XX-322-41-002000	126-XX-322-41-003000
24	30,4	7,62	10,1	16	126-XX-324-41-001000	126-XX-324-41-002000	126-XX-324-41-003000
28	35,5	7,62	10,1	14	126-XX-328-41-001000	126-XX-328-41-002000	126-XX-328-41-003000
20	25,4	10,16	12,7	20	126-XX-420-41-001000	126-XX-420-41-002000	126-XX-420-41-003000
22	27,8	10,16	12,7	18	126-XX-422-41-001000	126-XX-422-41-002000	126-XX-422-41-003000
24	30,4	10,16	12,7	16	126-XX-424-41-001000	126-XX-424-41-002000	126-XX-424-41-003000
28	35,5	10,16	12,7	14	126-XX-428-41-001000	126-XX-428-41-002000	126-XX-428-41-003000
32	40,6	10,16	12,7	12	126-XX-432-41-001000	126-XX-432-41-002000	126-XX-432-41-003000
24	30,4	15,24	17,7	16	126-XX-624-41-001000	126-XX-624-41-002000	126-XX-624-41-003000
28	35,5	15,24	17,7	14	126-XX-628-41-001000	126-XX-628-41-002000	126-XX-628-41-003000
32	40,6	15,24	17,7	12	126-XX-632-41-001000	126-XX-632-41-002000	126-XX-632-41-003000
36	45,7	15,24	17,7	11	126-XX-636-41-001000	126-XX-636-41-002000	126-XX-636-41-003000
40	50,8	15,24	17,7	10	126-XX-640-41-001000	126-XX-640-41-002000	126-XX-640-41-003000
42	53,3	15,24	17,7	9	126-XX-642-41-001000	126-XX-642-41-002000	126-XX-642-41-003000
48	60,9	15,24	17,7	8	126-XX-648-41-001000	126-XX-648-41-002000	126-XX-648-41-003000
50	63,5	15,24	17,7	8	126-XX-650-41-001000	126-XX-650-41-002000	126-XX-650-41-003000
52	66,0	15,24	17,7	7	126-XX-652-41-001000	126-XX-652-41-002000	126-XX-652-41-003000
50	63,5	22,86	25,3	8	126-XX-950-41-001000	126-XX-950-41-002000	126-XX-950-41-003000
52	66,0	22,86	25,3	7	126-XX-952-41-001000	126-XX-952-41-002000	126-XX-952-41-003000
64	81,2	22,86	25,3	6	126-XX-964-41-001000	126-XX-964-41-002000	126-XX-964-41-003000

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	XX=Plating Code See to Left
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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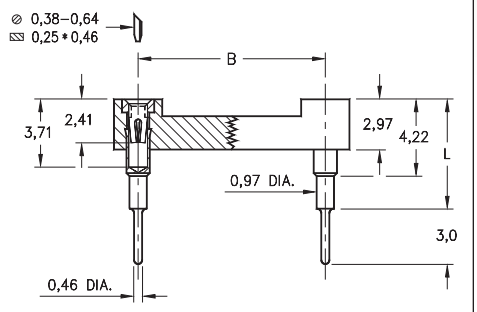
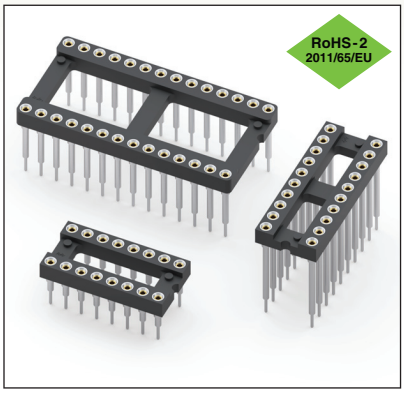
DUAL-IN-LINE SOCKETS

SERIES 116 • ELEVATED • OPEN FRAME



See page 130 for Insulator Details

- Ideal for raised component requirements and stacking of PCBs
- Sockets are XY stackable
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 116 uses MM #0153-X pins. See page 167 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 6,0 (#0153-1 pin)	L = 8,0 (#0153-2 pin)	L = 10,21 (#0153-3 pin)	L = 11,99 (#0153-4 pin)	L = 15,09 (#0153-5 pin)
10	12,6	5,08	7,6	40	116-XX-210-41-006000	116-XX-210-41-003000	116-XX-210-41-007000	116-XX-210-41-008000	116-XX-210-41-001000
4	5,0	7,62	10,1	102	116-XX-304-41-006000	116-XX-304-41-003000	116-XX-304-41-007000	116-XX-304-41-008000	116-XX-304-41-001000
6	7,6	7,62	10,1	67	116-XX-306-41-006000	116-XX-306-41-003000	116-XX-306-41-007000	116-XX-306-41-008000	116-XX-306-41-001000
8	10,1	7,62	10,1	50	116-XX-308-41-006000	116-XX-308-41-003000	116-XX-308-41-007000	116-XX-308-41-008000	116-XX-308-41-001000
10	12,6	7,62	10,1	40	116-XX-310-41-006000	116-XX-310-41-003000	116-XX-310-41-007000	116-XX-310-41-008000	116-XX-310-41-001000
14	17,7	7,62	10,1	28	116-XX-314-41-006000	116-XX-314-41-003000	116-XX-314-41-007000	116-XX-314-41-008000	116-XX-314-41-001000
16	20,3	7,62	10,1	25	116-XX-316-41-006000	116-XX-316-41-003000	116-XX-316-41-007000	116-XX-316-41-008000	116-XX-316-41-001000
18	22,8	7,62	10,1	22	116-XX-318-41-006000	116-XX-318-41-003000	116-XX-318-41-007000	116-XX-318-41-008000	116-XX-318-41-001000
20	25,3	7,62	10,1	20	116-XX-320-41-006000	116-XX-320-41-003000	116-XX-320-41-007000	116-XX-320-41-008000	116-XX-320-41-001000
22	27,8	7,62	10,1	18	116-XX-322-41-006000	116-XX-322-41-003000	116-XX-322-41-007000	116-XX-322-41-008000	116-XX-322-41-001000
24	30,4	7,62	10,1	16	116-XX-324-41-006000	116-XX-324-41-003000	116-XX-324-41-007000	116-XX-324-41-008000	116-XX-324-41-001000
28	35,5	7,62	10,1	14	116-XX-328-41-006000	116-XX-328-41-003000	116-XX-328-41-007000	116-XX-328-41-008000	116-XX-328-41-001000
20	25,4	10,16	12,7	20	116-XX-420-41-006000	116-XX-420-41-003000	116-XX-420-41-007000	116-XX-420-41-008000	116-XX-420-41-001000
22	27,8	10,16	12,7	18	116-XX-422-41-006000	116-XX-422-41-003000	116-XX-422-41-007000	116-XX-422-41-008000	116-XX-422-41-001000
24	30,4	10,16	12,7	16	116-XX-424-41-006000	116-XX-424-41-003000	116-XX-424-41-007000	116-XX-424-41-008000	116-XX-424-41-001000
28	35,5	10,16	12,7	14	116-XX-428-41-006000	116-XX-428-41-003000	116-XX-428-41-007000	116-XX-428-41-008000	116-XX-428-41-001000
32	40,6	10,16	12,7	12	116-XX-432-41-006000	116-XX-432-41-003000	116-XX-432-41-007000	116-XX-432-41-008000	116-XX-432-41-001000
24	30,4	15,24	17,7	16	116-XX-624-41-006000	116-XX-624-41-003000	116-XX-624-41-007000	116-XX-624-41-008000	116-XX-624-41-001000
28	35,5	15,24	17,7	14	116-XX-628-41-006000	116-XX-628-41-003000	116-XX-628-41-007000	116-XX-628-41-008000	116-XX-628-41-001000
32	40,6	15,24	17,7	12	116-XX-632-41-006000	116-XX-632-41-003000	116-XX-632-41-007000	116-XX-632-41-008000	116-XX-632-41-001000
36	45,7	15,24	17,7	11	116-XX-636-41-006000	116-XX-636-41-003000	116-XX-636-41-007000	116-XX-636-41-008000	116-XX-636-41-001000
40	50,8	15,24	17,7	10	116-XX-640-41-006000	116-XX-640-41-003000	116-XX-640-41-007000	116-XX-640-41-008000	116-XX-640-41-001000
42	53,3	15,24	17,7	9	116-XX-642-41-006000	116-XX-642-41-003000	116-XX-642-41-007000	116-XX-642-41-008000	116-XX-642-41-001000
48	60,9	15,24	17,7	8	116-XX-648-41-006000	116-XX-648-41-003000	116-XX-648-41-007000	116-XX-648-41-008000	116-XX-648-41-001000
50	63,5	15,24	17,7	8	116-XX-650-41-006000	116-XX-650-41-003000	116-XX-650-41-007000	116-XX-650-41-008000	116-XX-650-41-001000
52	66,0	15,24	17,7	7	116-XX-652-41-006000	116-XX-652-41-003000	116-XX-652-41-007000	116-XX-652-41-008000	116-XX-652-41-001000
50	63,5	22,86	25,3	8	116-XX-950-41-006000	116-XX-950-41-003000	116-XX-950-41-007000	116-XX-950-41-008000	116-XX-950-41-001000
52	66,0	22,86	25,3	7	116-XX-952-41-006000	116-XX-952-41-003000	116-XX-952-41-007000	116-XX-952-41-008000	116-XX-952-41-001000
64	81,2	22,86	25,3	6	116-XX-964-41-006000	116-XX-964-41-003000	116-XX-964-41-007000	116-XX-964-41-008000	116-XX-964-41-001000

SPECIFY PLATING CODE XX=	91	93	41 ◆	43 ◆	47 ◆
Sleeve (Pin)	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	Au Flash

XX=Plating Code See to Left

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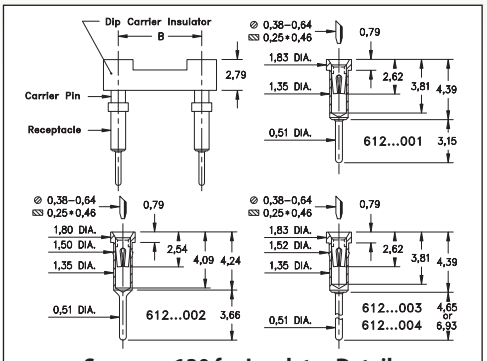
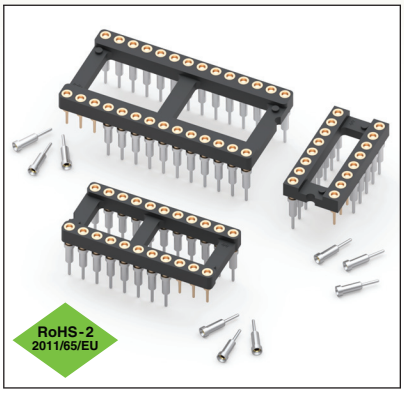
DUAL-IN-LINE SOCKETS

SERIES 612 • CARRIER TYPE, SOLDER TAIL • OPEN FRAME



See page 130 for Insulator Details

- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 612 uses MM #0255, #8855, #0135 or #0132 pins. See pages 165 and 171 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Tail Length = 3,15 (0,56 Min. Mounting Hole)	Tail Length = 3,66 (0,56 Min. Mounting Hole)	Tail Length = 4,65 (0,56 Min. Mounting Hole)	Tail Length = 6,93 (0,56 Min. Mounting Hole)
10	12,6	5,08	7,6	40	612-XX-210-41-001000	612-XX-210-41-002000	612-XX-210-41-003000	612-XX-210-41-004000
4	5,0	7,62	10,1	102	612-XX-304-41-001000	612-XX-304-41-002000	612-XX-304-41-003000	612-XX-304-41-004000
6	7,6	7,62	10,1	68	612-XX-306-41-001000	612-XX-306-41-002000	612-XX-306-41-003000	612-XX-306-41-004000
8	10,1	7,62	10,1	50	612-XX-308-41-001000	612-XX-308-41-002000	612-XX-308-41-003000	612-XX-308-41-004000
10	12,6	7,62	10,1	40	612-XX-310-41-001000	612-XX-310-41-002000	612-XX-310-41-003000	612-XX-310-41-004000
14	17,7	7,62	10,1	28	612-XX-314-41-001000	612-XX-314-41-002000	612-XX-314-41-003000	612-XX-314-41-004000
16	20,3	7,62	10,1	25	612-XX-316-41-001000	612-XX-316-41-002000	612-XX-316-41-003000	612-XX-316-41-004000
18	22,8	7,62	10,1	22	612-XX-318-41-001000	612-XX-318-41-002000	612-XX-318-41-003000	612-XX-318-41-004000
20	25,3	7,62	10,1	20	612-XX-320-41-001000	612-XX-320-41-002000	612-XX-320-41-003000	612-XX-320-41-004000
22	27,8	7,62	10,1	18	612-XX-322-41-001000	612-XX-322-41-002000	612-XX-322-41-003000	612-XX-322-41-004000
24	30,4	7,62	10,1	16	612-XX-324-41-001000	612-XX-324-41-002000	612-XX-324-41-003000	612-XX-324-41-004000
28	35,5	7,62	10,1	14	612-XX-328-41-001000	612-XX-328-41-002000	612-XX-328-41-003000	612-XX-328-41-004000
20	25,4	10,16	12,7	20	612-XX-420-41-001000	612-XX-420-41-002000	612-XX-420-41-003000	612-XX-420-41-004000
22	27,8	10,16	12,7	18	612-XX-422-41-001000	612-XX-422-41-002000	612-XX-422-41-003000	612-XX-422-41-004000
24	30,4	10,16	12,7	16	612-XX-424-41-001000	612-XX-424-41-002000	612-XX-424-41-003000	612-XX-424-41-004000
28	35,5	10,16	12,7	14	612-XX-428-41-001000	612-XX-428-41-002000	612-XX-428-41-003000	612-XX-428-41-004000
32	40,6	10,16	12,7	12	612-XX-432-41-001000	612-XX-432-41-002000	612-XX-432-41-003000	612-XX-432-41-004000
24	30,4	15,24	17,7	16	612-XX-624-41-001000	612-XX-624-41-002000	612-XX-624-41-003000	612-XX-624-41-004000
28	35,5	15,24	17,7	14	612-XX-628-41-001000	612-XX-628-41-002000	612-XX-628-41-003000	612-XX-628-41-004000
32	40,6	15,24	17,7	12	612-XX-632-41-001000	612-XX-632-41-002000	612-XX-632-41-003000	612-XX-632-41-004000
36	45,7	15,24	17,7	11	612-XX-636-41-001000	612-XX-636-41-002000	612-XX-636-41-003000	612-XX-636-41-004000
40	50,8	15,24	17,7	10	612-XX-640-41-001000	612-XX-640-41-002000	612-XX-640-41-003000	612-XX-640-41-004000
42	53,3	15,24	17,7	9	612-XX-642-41-001000	612-XX-642-41-002000	612-XX-642-41-003000	612-XX-642-41-004000
48	60,9	15,24	17,7	8	612-XX-648-41-001000	612-XX-648-41-002000	612-XX-648-41-003000	612-XX-648-41-004000
50	63,5	15,24	17,7	8	612-XX-650-41-001000	612-XX-650-41-002000	612-XX-650-41-003000	612-XX-650-41-004000
52	66,0	15,24	17,7	7	612-XX-652-41-001000	612-XX-652-41-002000	612-XX-652-41-003000	612-XX-652-41-004000
50	63,5	22,86	25,3	8	612-XX-950-41-001000	612-XX-950-41-002000	612-XX-950-41-003000	612-XX-950-41-004000
52	66,0	22,86	25,3	7	612-XX-952-41-001000	612-XX-952-41-002000	612-XX-952-41-003000	612-XX-952-41-004000
64	81,2	22,86	25,3	6	612-XX-964-41-001000	612-XX-964-41-002000	612-XX-964-41-003000	612-XX-964-41-004000

SPECIFY PLATING CODE XX =	13 ◆	91	93	41 ◆	43 ◆
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au

XX=Plating Code See to Left

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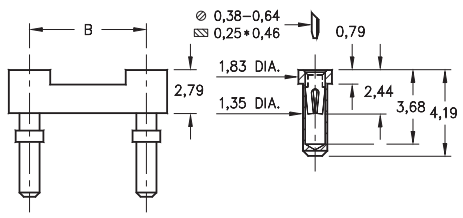
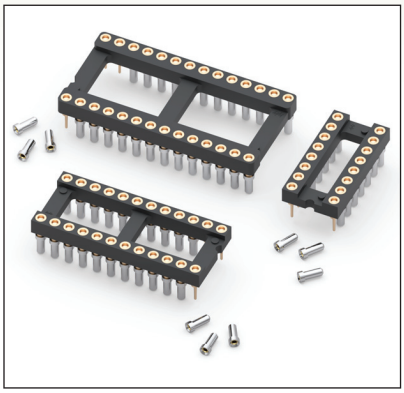
DUAL-IN-LINE SOCKETS

SERIES 614...001 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Convenient way to load loose receptacles on a PC board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 614 uses MM #1401 pins. See page 170 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	
10	12,6	5,08	7,6	40	614-XX-210-41-001000
4	5,0	7,62	10,1	102	614-XX-304-41-001000
6	7,6	7,62	10,1	67	614-XX-306-41-001000
8	10,1	7,62	10,1	50	614-XX-308-41-001000
10	12,6	7,62	10,1	40	614-XX-310-41-001000
14	17,7	7,62	10,1	28	614-XX-314-41-001000
16	20,3	7,62	10,1	25	614-XX-316-41-001000
18	22,8	7,62	10,1	22	614-XX-318-41-001000
20	25,3	7,62	10,1	20	614-XX-320-41-001000
22	27,8	7,62	10,1	18	614-XX-322-41-001000
24	30,4	7,62	10,1	16	614-XX-324-41-001000
28	35,5	7,62	10,1	14	614-XX-328-41-001000
20	25,4	10,16	12,7	20	614-XX-420-41-001000
22	27,8	10,16	12,7	18	614-XX-422-41-001000
24	30,4	10,16	12,7	16	614-XX-424-41-001000
28	35,5	10,16	12,7	14	614-XX-428-41-001000
32	40,6	10,16	12,7	12	614-XX-432-41-001000
24	30,4	15,24	17,7	16	614-XX-624-41-001000
28	35,5	15,24	17,7	14	614-XX-628-41-001000
32	40,6	15,24	17,7	12	614-XX-632-41-001000
36	45,7	15,24	17,7	11	614-XX-636-41-001000
40	50,8	15,24	17,7	10	614-XX-640-41-001000
42	53,3	15,24	17,7	9	614-XX-642-41-001000
48	60,9	15,24	17,7	8	614-XX-648-41-001000
50	63,5	15,24	17,7	8	614-XX-650-41-001000
52	66,0	15,24	17,7	7	614-XX-652-41-001000
50	63,5	22,86	25,3	8	614-XX-950-41-001000
52	66,0	22,86	25,3	7	614-XX-952-41-001000
64	81,2	22,86	25,3	6	614-XX-964-41-001000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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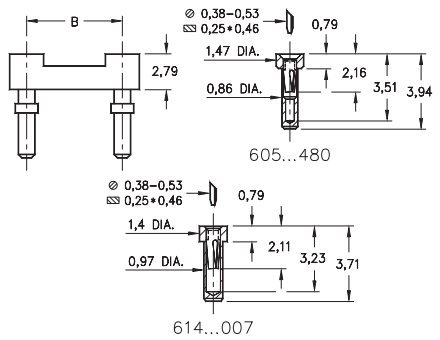
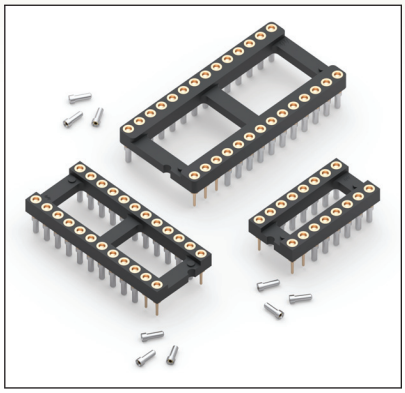
DUAL-IN-LINE SOCKETS

SERIES 605, 614 • CARRIER TYPE, LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Low profile receptacles sit only 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 605 and 614 use MM #1407 & #0548 pins. See page 157 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Length = 3,71 (0,99 Min. Mounting Hole)	Length = 3,94 (0,89 Min. Mounting Hole)
10	12,6	5,08	7,6	40	614-XX-210-31-007000	605-XX-210-11-480000
4	5,0	7,62	10,1	102	614-XX-304-31-007000	605-XX-304-11-480000
6	7,6	7,62	10,1	68	614-XX-306-31-007000	605-XX-306-11-480000
8	10,1	7,62	10,1	50	614-XX-308-31-007000	605-XX-308-11-480000
10	12,6	7,62	10,1	40	614-XX-310-31-007000	605-XX-310-11-480000
14	17,7	7,62	10,1	28	614-XX-314-31-007000	605-XX-314-11-480000
16	20,3	7,62	10,1	25	614-XX-316-31-007000	605-XX-316-11-480000
18	22,8	7,62	10,1	22	614-XX-318-31-007000	605-XX-318-11-480000
20	25,3	7,62	10,1	20	614-XX-320-31-007000	605-XX-320-11-480000
22	27,8	7,62	10,1	18	614-XX-322-31-007000	605-XX-322-11-480000
24	30,4	7,62	10,1	16	614-XX-324-31-007000	605-XX-324-11-480000
28	35,5	7,62	10,1	14	614-XX-328-31-007000	605-XX-328-11-480000
20	25,4	10,16	12,7	20	614-XX-420-31-007000	605-XX-420-11-480000
22	27,8	10,16	12,7	18	614-XX-422-31-007000	605-XX-422-11-480000
24	30,4	10,16	12,7	16	614-XX-424-31-007000	605-XX-424-11-480000
28	35,5	10,16	12,7	14	614-XX-428-31-007000	605-XX-428-11-480000
32	40,6	10,16	12,7	12	614-XX-432-31-007000	605-XX-432-11-480000
24	30,4	15,24	17,7	16	614-XX-624-31-007000	605-XX-624-11-480000
28	35,5	15,24	17,7	14	614-XX-628-31-007000	605-XX-628-11-480000
32	40,6	15,24	17,7	12	614-XX-632-31-007000	605-XX-632-11-480000
36	45,7	15,24	17,7	11	614-XX-636-31-007000	605-XX-636-11-480000
40	50,8	15,24	17,7	10	614-XX-640-31-007000	605-XX-640-11-480000
42	53,3	15,24	17,7	9	614-XX-642-31-007000	605-XX-642-11-480000
48	60,9	15,24	17,7	8	614-XX-648-31-007000	605-XX-648-11-480000
50	63,5	15,24	17,7	8	614-XX-650-31-007000	605-XX-650-11-480000
52	66,0	15,24	17,7	7	614-XX-652-31-007000	605-XX-652-11-480000
50	63,5	22,86	25,3	8	614-XX-950-31-007000	605-XX-950-11-480000
52	66,0	22,86	25,3	7	614-XX-952-31-007000	605-XX-952-11-480000
64	81,2	22,86	25,3	6	614-XX-964-31-007000	605-XX-964-11-480000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =		91	93		41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	

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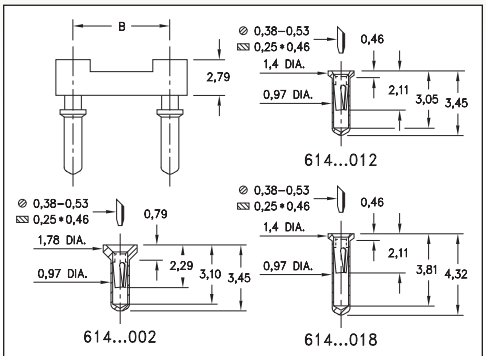
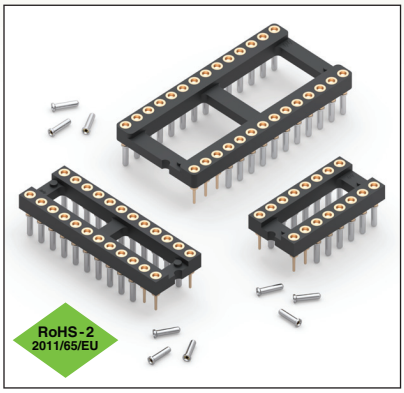
DUAL-IN-LINE SOCKETS

SERIES 614 • CARRIER TYPE, ULTRA LOW PROFILE • OPEN FRAME



See page 130 for Insulator Details

- Ultra low profile receptacles sit only 0,46 to 0,79 high above the board
- Removable plastic carriers can be returned for reloading
- Hi-Rel, 3-finger BeCu #11 contact is rated at 3 amps. See page 251 for details
- Series 614 uses MM #0552-1, #0442-0, #0552-2 pins. See pages 157 and 158 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Length = 3,45 (1,0 Min. Mounting Hole)	Length = 3,45 (1,0 Min. Mounting Hole)	Length = 4,32 (1,0 Min. Mounting Hole)
10	12,6	5,08	7,6	40	614-XX-210-31-012000	614-XX-210-31-002000	614-XX-210-31-018000
4	5,0	7,62	10,1	102	614-XX-304-31-012000	614-XX-304-31-002000	614-XX-304-31-018000
6	7,6	7,62	10,1	67	614-XX-306-31-012000	614-XX-306-31-002000	614-XX-306-31-018000
8	10,1	7,62	10,1	50	614-XX-308-31-012000	614-XX-308-31-002000	614-XX-308-31-018000
10	12,6	7,62	10,1	40	614-XX-310-31-012000	614-XX-310-31-002000	614-XX-310-31-018000
14	17,7	7,62	10,1	28	614-XX-314-31-012000	614-XX-314-31-002000	614-XX-314-31-018000
16	20,3	7,62	10,1	25	614-XX-316-31-012000	614-XX-316-31-002000	614-XX-316-31-018000
18	22,8	7,62	10,1	22	614-XX-318-31-012000	614-XX-318-31-002000	614-XX-318-31-018000
20	25,3	7,62	10,1	20	614-XX-320-31-012000	614-XX-320-31-002000	614-XX-320-31-018000
22	27,8	7,62	10,1	18	614-XX-322-31-012000	614-XX-322-31-002000	614-XX-322-31-018000
24	30,4	7,62	10,1	16	614-XX-324-31-012000	614-XX-324-31-002000	614-XX-324-31-018000
28	35,5	7,62	10,1	14	614-XX-328-31-012000	614-XX-328-31-002000	614-XX-328-31-018000
20	25,4	10,16	12,7	20	614-XX-420-31-012000	614-XX-420-31-002000	614-XX-420-31-018000
22	27,8	10,16	12,7	18	614-XX-422-31-012000	614-XX-422-31-002000	614-XX-422-31-018000
24	30,4	10,16	12,7	16	614-XX-424-31-012000	614-XX-424-31-002000	614-XX-424-31-018000
28	35,5	10,16	12,7	14	614-XX-428-31-012000	614-XX-428-31-002000	614-XX-428-31-018000
32	40,6	10,16	12,7	12	614-XX-432-31-012000	614-XX-432-31-002000	614-XX-432-31-018000
24	30,4	15,24	17,7	16	614-XX-624-31-012000	614-XX-624-31-002000	614-XX-624-31-018000
28	35,5	15,24	17,7	14	614-XX-628-31-012000	614-XX-628-31-002000	614-XX-628-31-018000
32	40,6	15,24	17,7	12	614-XX-632-31-012000	614-XX-632-31-002000	614-XX-632-31-018000
36	45,7	15,24	17,7	11	614-XX-636-31-012000	614-XX-636-31-002000	614-XX-636-31-018000
40	50,8	15,24	17,7	10	614-XX-640-31-012000	614-XX-640-31-002000	614-XX-640-31-018000
42	53,3	15,24	17,7	9	614-XX-642-31-012000	614-XX-642-31-002000	614-XX-642-31-018000
48	60,9	15,24	17,7	8	614-XX-648-31-012000	614-XX-648-31-002000	614-XX-648-31-018000
50	63,5	15,24	17,7	8	614-XX-650-31-012000	614-XX-650-31-002000	614-XX-650-31-018000
52	66,0	15,24	17,7	7	614-XX-652-31-012000	614-XX-652-31-002000	614-XX-652-31-018000
50	63,5	22,86	25,3	8	614-XX-950-31-012000	614-XX-950-31-002000	614-XX-950-31-018000
52	66,0	22,86	25,3	7	614-XX-952-31-012000	614-XX-952-31-002000	614-XX-952-31-018000
64	81,2	22,86	25,3	6	614-XX-964-31-012000	614-XX-964-31-002000	614-XX-964-31-018000

SPECIFY PLATING CODE XX =		91	93	41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn	5,08µm Sn	XX=Plating Code See to Left
Contact (Clip)		0,25µm Au	0,76µm Au	0,25µm Au	0,76µm Au	

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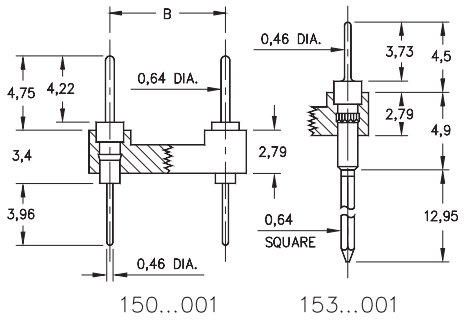
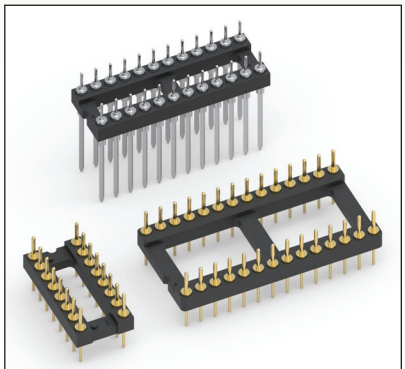
DUAL-IN-LINE HEADERS

SERIES 150, 153 • SOLDER TAIL AND WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 150 DIL Headers are equipped with 0,64 dia. pins MM #0290. See page 215 for details
- Series 153 DIL Headers have 3-level wraposts MM #5301. See page 227 for details
- Both series have 0,46 dia. solder tails which are pluggable into standard contacts
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	3 Level Wrapost
10	12,6	5,08	7,6	40	150-XX-210-00-001000	153-XX-210-00-001000
4	5,0	7,62	10,1	102	150-XX-304-00-001000	153-XX-304-00-001000
6	7,6	7,62	10,1	67	150-XX-306-00-001000	153-XX-306-00-001000
8	10,1	7,62	10,1	50	150-XX-308-00-001000	153-XX-308-00-001000
10	12,6	7,62	10,1	40	150-XX-310-00-001000	153-XX-310-00-001000
14	17,7	7,62	10,1	29	150-XX-314-00-001000	153-XX-314-00-001000
16	20,3	7,62	10,1	25	150-XX-316-00-001000	153-XX-316-00-001000
18	22,8	7,62	10,1	22	150-XX-318-00-001000	153-XX-318-00-001000
20	25,3	7,62	10,1	20	150-XX-320-00-001000	153-XX-320-00-001000
22	27,8	7,62	10,1	18	150-XX-322-00-001000	153-XX-322-00-001000
24	30,4	7,62	10,1	16	150-XX-324-00-001000	153-XX-324-00-001000
28	35,5	7,62	10,1	14	150-XX-328-00-001000	153-XX-328-00-001000
20	25,4	10,16	12,7	20	150-XX-420-00-001000	153-XX-420-00-001000
22	27,8	10,16	12,7	18	150-XX-422-00-001000	153-XX-422-00-001000
24	30,4	10,16	12,7	16	150-XX-424-00-001000	153-XX-424-00-001000
28	35,5	10,16	12,7	14	150-XX-428-00-001000	153-XX-428-00-001000
32	40,6	10,16	12,7	12	150-XX-432-00-001000	153-XX-432-00-001000
24	30,4	15,24	17,7	16	150-XX-624-00-001000	153-XX-624-00-001000
28	35,5	15,24	17,7	14	150-XX-628-00-001000	153-XX-628-00-001000
32	40,6	15,24	17,7	12	150-XX-632-00-001000	153-XX-632-00-001000
36	45,7	15,24	17,7	11	150-XX-636-00-001000	153-XX-636-00-001000
40	50,8	15,24	17,7	10	150-XX-640-00-001000	153-XX-640-00-001000
42	53,3	15,24	17,7	9	150-XX-642-00-001000	153-XX-642-00-001000
48	60,9	15,24	17,7	8	150-XX-648-00-001000	153-XX-648-00-001000
50	63,5	15,24	17,7	8	150-XX-650-00-001000	153-XX-650-00-001000
52	66,0	15,24	17,7	7	150-XX-652-00-001000	153-XX-652-00-001000
50	63,5	22,86	25,3	8	150-XX-950-00-001000	153-XX-950-00-001000
52	66,0	22,86	25,3	7	150-XX-952-00-001000	153-XX-952-00-001000
64	81,2	22,86	25,3	6	150-XX-964-00-001000	153-XX-964-00-001000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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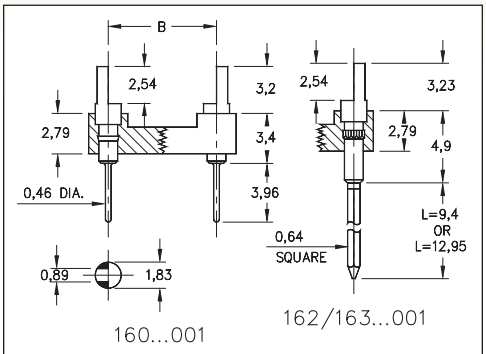
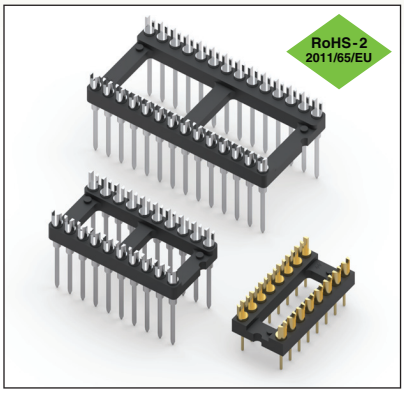
DUAL-IN-LINE HEADERS

SERIES 160, 162, 163 • SLOTTED, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 160, 162, and 163 DIL Headers are equipped with slotted heads to accept wires or component leads
- Series 160 terminations are pluggable 0,46 dia. solder tails MM #0282, See page 216 for details. Series 162 and 163 terminations are two or three level wraposts MM #1106. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

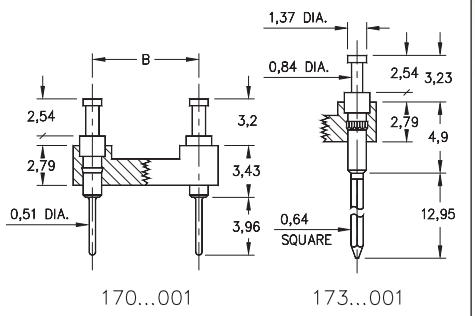
Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
10	12,6	5,08	7,6	41	160-XX-210-00-001000	162-XX-210-00-001000	163-XX-210-00-001000
4	5,0	7,62	10,1	102	160-XX-304-00-001000	162-XX-304-00-001000	163-XX-304-00-001000
6	7,6	7,62	10,1	67	160-XX-306-00-001000	162-XX-306-00-001000	163-XX-306-00-001000
8	10,1	7,62	10,1	50	160-XX-308-00-001000	162-XX-308-00-001000	163-XX-308-00-001000
10	12,6	7,62	10,1	40	160-XX-310-00-001000	162-XX-310-00-001000	163-XX-310-00-001000
14	17,7	7,62	10,1	28	160-XX-314-00-001000	162-XX-314-00-001000	163-XX-314-00-001000
16	20,3	7,62	10,1	25	160-XX-316-00-001000	162-XX-316-00-001000	163-XX-316-00-001000
18	22,8	7,62	10,1	22	160-XX-318-00-001000	162-XX-318-00-001000	163-XX-318-00-001000
20	25,3	7,62	10,1	20	160-XX-320-00-001000	162-XX-320-00-001000	163-XX-320-00-001000
22	27,8	7,62	10,1	18	160-XX-322-00-001000	162-XX-322-00-001000	163-XX-322-00-001000
24	30,4	7,62	10,1	16	160-XX-324-00-001000	162-XX-324-00-001000	163-XX-324-00-001000
28	35,5	7,62	10,1	14	160-XX-328-00-001000	162-XX-328-00-001000	163-XX-328-00-001000
20	25,4	10,16	12,7	20	160-XX-420-00-001000	162-XX-420-00-001000	163-XX-420-00-001000
22	27,8	10,16	12,7	18	160-XX-422-00-001000	162-XX-422-00-001000	163-XX-422-00-001000
24	30,4	10,16	12,7	16	160-XX-424-00-001000	162-XX-424-00-001000	163-XX-424-00-001000
28	35,5	10,16	12,7	14	160-XX-428-00-001000	162-XX-428-00-001000	163-XX-428-00-001000
32	40,6	10,16	12,7	12	160-XX-432-00-001000	162-XX-432-00-001000	163-XX-432-00-001000
24	30,4	15,24	17,7	16	160-XX-624-00-001000	162-XX-624-00-001000	163-XX-624-00-001000
28	35,5	15,24	17,7	14	160-XX-628-00-001000	162-XX-628-00-001000	163-XX-628-00-001000
32	40,6	15,24	17,7	12	160-XX-632-00-001000	162-XX-632-00-001000	163-XX-632-00-001000
36	45,7	15,24	17,7	11	160-XX-636-00-001000	162-XX-636-00-001000	163-XX-636-00-001000
40	50,8	15,24	17,7	10	160-XX-640-00-001000	162-XX-640-00-001000	163-XX-640-00-001000
42	53,3	15,24	17,7	9	160-XX-642-00-001000	162-XX-642-00-001000	163-XX-642-00-001000
48	60,9	15,24	17,7	8	160-XX-648-00-001000	162-XX-648-00-001000	163-XX-648-00-001000
50	63,5	15,24	17,7	8	160-XX-650-00-001000	162-XX-650-00-001000	163-XX-650-00-001000
52	66,0	15,24	17,7	7	160-XX-652-00-001000	162-XX-652-00-001000	163-XX-652-00-001000
50	63,5	22,86	25,3	8	160-XX-950-00-001000	162-XX-950-00-001000	163-XX-950-00-001000
52	66,0	22,86	25,3	7	160-XX-952-00-001000	162-XX-952-00-001000	163-XX-952-00-001000
64	81,2	22,86	25,3	6	160-XX-964-00-001000	162-XX-964-00-001000	163-XX-964-00-001000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

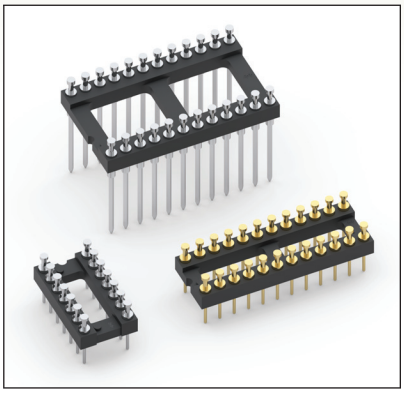
DUAL-IN-LINE HEADERS

SERIES 170, 173 • TURRET, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 170 &173 DIL headers are equipped with turret heads for wiring applications
- Series 170 terminations are pluggable 0,51 dia. solder tails MM #0700, See page 216 for details. Series 173 terminations are three level wraposts MM #0730. See page 228 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	3 Level Wrapost
10	12,6	5,08	7,6	41	170-XX-210-00-001000	173-XX-210-00-001000
4	5,0	7,62	10,1	102	170-XX-304-00-001000	173-XX-304-00-001000
6	7,6	7,62	10,1	67	170-XX-306-00-001000	173-XX-306-00-001000
8	10,1	7,62	10,1	50	170-XX-308-00-001000	173-XX-308-00-001000
10	12,6	7,62	10,1	40	170-XX-310-00-001000	173-XX-310-00-001000
14	17,7	7,62	10,1	28	170-XX-314-00-001000	173-XX-314-00-001000
16	20,3	7,62	10,1	25	170-XX-316-00-001000	173-XX-316-00-001000
18	22,8	7,62	10,1	22	170-XX-318-00-001000	173-XX-318-00-001000
20	25,3	7,62	10,1	20	170-XX-320-00-001000	173-XX-320-00-001000
22	27,8	7,62	10,1	18	170-XX-322-00-001000	173-XX-322-00-001000
24	30,4	7,62	10,1	16	170-XX-324-00-001000	173-XX-324-00-001000
28	35,5	7,62	10,1	14	170-XX-328-00-001000	173-XX-328-00-001000
20	25,4	10,16	12,7	20	170-XX-420-00-001000	173-XX-420-00-001000
22	27,8	10,16	12,7	18	170-XX-422-00-001000	173-XX-422-00-001000
24	30,4	10,16	12,7	16	170-XX-424-00-001000	173-XX-424-00-001000
28	35,5	10,16	12,7	14	170-XX-428-00-001000	173-XX-428-00-001000
32	40,6	10,16	12,7	12	170-XX-432-00-001000	173-XX-432-00-001000
24	30,4	15,24	17,7	16	170-XX-624-00-001000	173-XX-624-00-001000
28	35,5	15,24	17,7	14	170-XX-628-00-001000	173-XX-628-00-001000
32	40,6	15,24	17,7	12	170-XX-632-00-001000	173-XX-632-00-001000
36	45,7	15,24	17,7	11	170-XX-636-00-001000	173-XX-636-00-001000
40	50,8	15,24	17,7	10	170-XX-640-00-001000	173-XX-640-00-001000
42	53,3	15,24	17,7	9	170-XX-642-00-001000	173-XX-642-00-001000
48	60,9	15,24	17,7	8	170-XX-648-00-001000	173-XX-648-00-001000
50	63,5	15,24	17,7	8	170-XX-650-00-001000	173-XX-650-00-001000
52	66,0	15,24	17,7	7	170-XX-652-00-001000	173-XX-652-00-001000
50	63,5	22,86	25,3	8	170-XX-950-00-001000	173-XX-950-00-001000
52	66,0	22,86	25,3	7	170-XX-952-00-001000	173-XX-952-00-001000
64	81,2	22,86	25,3	6	170-XX-964-00-001000	173-XX-964-00-001000

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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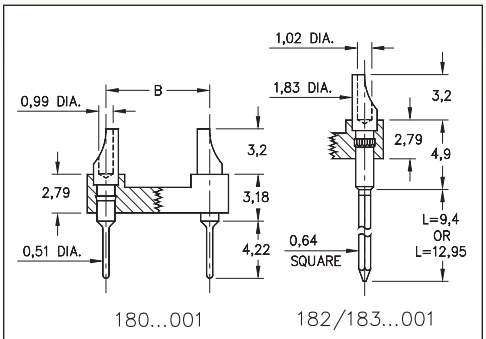
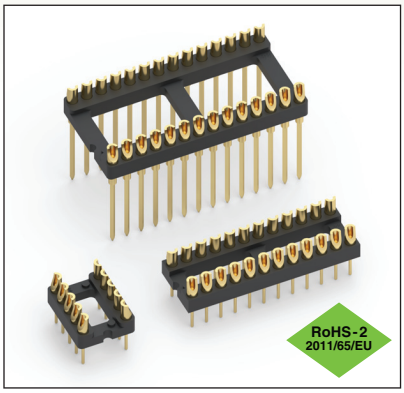
DUAL-IN-LINE HEADERS

SERIES 180, 182, 183 • SOLDER CUP, SOLDER TAIL & WRAPOST • OPEN FRAME



See page 130 for Insulator Details

- Series 180, 182, and 183 DIL Headers are equipped with solder cups for wiring applications
- Series 180 terminations are pluggable 0,51 dia. solder tails MM #8000, See page 216 for details. Series 182 and 183 terminations are two or three level wraposts MM #8301. See page 227 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
10	12,6	5,08	7,6	41	180-10-210-00-001000	182-10-210-00-001000	183-10-210-00-001000
4	5,0	7,62	10,1	102	180-10-304-00-001000	182-10-304-00-001000	183-10-304-00-001000
6	7,6	7,62	10,1	67	180-10-306-00-001000	182-10-306-00-001000	183-10-306-00-001000
8	10,1	7,62	10,1	50	180-10-308-00-001000	182-10-308-00-001000	183-10-308-00-001000
10	12,6	7,62	10,1	40	180-10-310-00-001000	182-10-310-00-001000	183-10-310-00-001000
14	17,7	7,62	10,1	28	180-10-314-00-001000	182-10-314-00-001000	183-10-314-00-001000
16	20,3	7,62	10,1	25	180-10-316-00-001000	182-10-316-00-001000	183-10-316-00-001000
18	22,8	7,62	10,1	22	180-10-318-00-001000	182-10-318-00-001000	183-10-318-00-001000
20	25,3	7,62	10,1	20	180-10-320-00-001000	182-10-320-00-001000	183-10-320-00-001000
22	27,8	7,62	10,1	18	180-10-322-00-001000	182-10-322-00-001000	183-10-322-00-001000
24	30,4	7,62	10,1	16	180-10-324-00-001000	182-10-324-00-001000	183-10-324-00-001000
28	35,5	7,62	10,1	14	180-10-328-00-001000	182-10-328-00-001000	183-10-328-00-001000
20	25,4	10,16	12,7	20	180-10-420-00-001000	182-10-420-00-001000	183-10-420-00-001000
22	27,8	10,16	12,7	18	180-10-422-00-001000	182-10-422-00-001000	183-10-422-00-001000
24	30,4	10,16	12,7	16	180-10-424-00-001000	182-10-424-00-001000	183-10-424-00-001000
28	35,5	10,16	12,7	14	180-10-428-00-001000	182-10-428-00-001000	183-10-428-00-001000
32	40,6	10,16	12,7	12	180-10-432-00-001000	182-10-432-00-001000	183-10-432-00-001000
24	30,4	15,24	17,7	16	180-10-624-00-001000	182-10-624-00-001000	183-10-624-00-001000
28	35,5	15,24	17,7	14	180-10-628-00-001000	182-10-628-00-001000	183-10-628-00-001000
32	40,6	15,24	17,7	12	180-10-632-00-001000	182-10-632-00-001000	183-10-632-00-001000
36	45,7	15,24	17,7	11	180-10-636-00-001000	182-10-636-00-001000	183-10-636-00-001000
40	50,8	15,24	17,7	10	180-10-640-00-001000	182-10-640-00-001000	183-10-640-00-001000
42	53,3	15,24	17,7	9	180-10-642-00-001000	182-10-642-00-001000	183-10-642-00-001000
48	60,9	15,24	17,7	8	180-10-648-00-001000	182-10-648-00-001000	183-10-648-00-001000
50	63,5	15,24	17,7	8	180-10-650-00-001000	182-10-650-00-001000	183-10-650-00-001000
52	66,0	15,24	17,7	7	180-10-652-00-001000	182-10-652-00-001000	183-10-652-00-001000
50	63,5	22,86	25,3	8	180-10-950-00-001000	182-10-950-00-001000	183-10-950-00-001000
52	66,0	22,86	25,3	7	180-10-952-00-001000	182-10-952-00-001000	183-10-952-00-001000
64	81,2	22,86	25,3	6	180-10-964-00-001000	182-10-964-00-001000	183-10-964-00-001000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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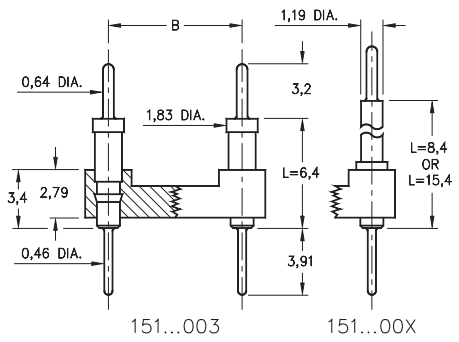
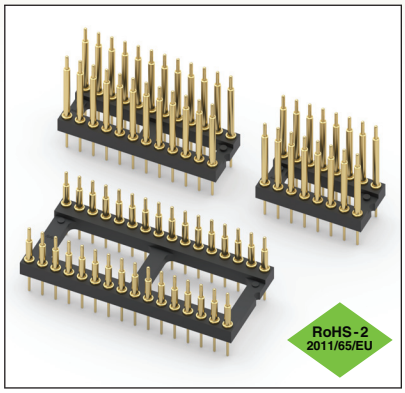
DUAL-IN-LINE HEADERS

SERIES 151...003, 004, 005 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 151 DIL Headers combine 0,64 dia. tails with pluggable 0,46 dia. solder tails
- Series:
  151...003 uses MM #5503 pins
  151...004 uses MM #5504 pins
  151...005 uses MM #5505 pins
  See page 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-003000	151-10-210-00-004000	151-10-210-00-005000
4	5,0	7,62	10,1	102	151-10-304-00-003000	151-10-304-00-004000	151-10-304-00-005000
6	7,6	7,62	10,1	67	151-10-306-00-003000	151-10-306-00-004000	151-10-306-00-005000
8	10,1	7,62	10,1	50	151-10-308-00-003000	151-10-308-00-004000	151-10-308-00-005000
10	12,6	7,62	10,1	40	151-10-310-00-003000	151-10-310-00-004000	151-10-310-00-005000
14	17,7	7,62	10,1	28	151-10-314-00-003000	151-10-314-00-004000	151-10-314-00-005000
16	20,3	7,62	10,1	25	151-10-316-00-003000	151-10-316-00-004000	151-10-316-00-005000
18	22,8	7,62	10,1	22	151-10-318-00-003000	151-10-318-00-004000	151-10-318-00-005000
20	25,3	7,62	10,1	20	151-10-320-00-003000	151-10-320-00-004000	151-10-320-00-005000
22	27,8	7,62	10,1	18	151-10-322-00-003000	151-10-322-00-004000	151-10-322-00-005000
24	30,4	7,62	10,1	16	151-10-324-00-003000	151-10-324-00-004000	151-10-324-00-005000
28	35,5	7,62	10,1	14	151-10-328-00-003000	151-10-328-00-004000	151-10-328-00-005000
20	25,4	10,16	12,7	20	151-10-420-00-003000	151-10-420-00-004000	151-10-420-00-005000
22	27,8	10,16	12,7	18	151-10-422-00-003000	151-10-422-00-004000	151-10-422-00-005000
24	30,4	10,16	12,7	16	151-10-424-00-003000	151-10-424-00-004000	151-10-424-00-005000
28	35,5	10,16	12,7	14	151-10-428-00-003000	151-10-428-00-004000	151-10-428-00-005000
32	40,6	10,16	12,7	12	151-10-432-00-003000	151-10-432-00-004000	151-10-432-00-005000
24	30,4	15,24	17,7	16	151-10-624-00-003000	151-10-624-00-004000	151-10-624-00-005000
28	35,5	15,24	17,7	14	151-10-628-00-003000	151-10-628-00-004000	151-10-628-00-005000
32	40,6	15,24	17,7	12	151-10-632-00-003000	151-10-632-00-004000	151-10-632-00-005000
36	45,7	15,24	17,7	11	151-10-636-00-003000	151-10-636-00-004000	151-10-636-00-005000
40	50,8	15,24	17,7	10	151-10-640-00-003000	151-10-640-00-004000	151-10-640-00-005000
42	53,3	15,24	17,7	9	151-10-642-00-003000	151-10-642-00-004000	151-10-642-00-005000
48	60,9	15,24	17,7	8	151-10-648-00-003000	151-10-648-00-004000	151-10-648-00-005000
50	63,5	15,24	17,7	8	151-10-650-00-003000	151-10-650-00-004000	151-10-650-00-005000
52	66,0	15,24	17,7	7	151-10-652-00-003000	151-10-652-00-004000	151-10-652-00-005000
50	63,5	22,86	25,3	8	151-10-950-00-003000	151-10-950-00-004000	151-10-950-00-005000
52	66,0	22,86	25,3	7	151-10-952-00-003000	151-10-952-00-004000	151-10-952-00-005000
64	81,2	22,86	25,3	6	151-10-964-00-003000	151-10-964-00-004000	151-10-964-00-005000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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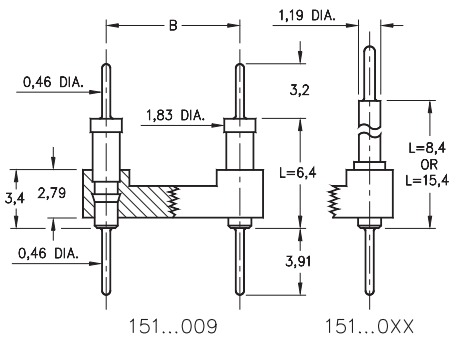
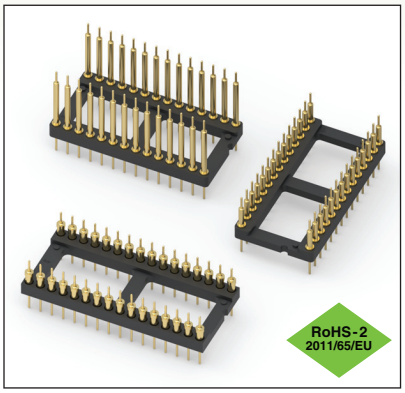
DUAL-IN-LINE HEADERS

SERIES 151...009, 010, 011 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 151 DIL Headers feature 0,46 dia. solder tails at both ends making these headers entirely pluggable
- Series:
  151...009 uses MM #5509 pins
  151...010 uses MM #5510 pins
  151...011 uses MM #5511 pins
  See pages 212 and 214 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

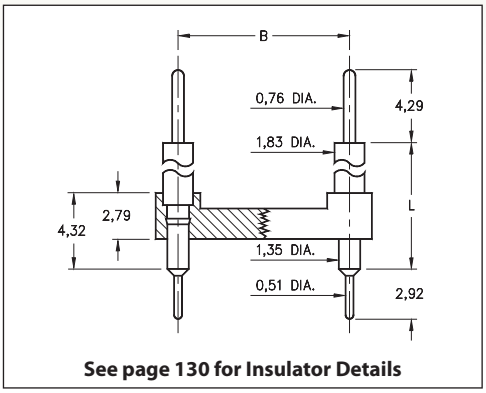
Total number of pins	A	B	C	Quantity per tube	L = 6,4	L = 8,4	L = 15,4
10	12,6	5,08	7,6	41	151-10-210-00-009000	151-10-210-00-010000	151-10-210-00-011000
4	5,0	7,62	10,1	102	151-10-304-00-009000	151-10-304-00-010000	151-10-304-00-011000
6	7,6	7,62	10,1	67	151-10-306-00-009000	151-10-306-00-010000	151-10-306-00-011000
8	10,1	7,62	10,1	50	151-10-308-00-009000	151-10-308-00-010000	151-10-308-00-011000
10	12,6	7,62	10,1	40	151-10-310-00-009000	151-10-310-00-010000	151-10-310-00-011000
14	17,7	7,62	10,1	28	151-10-314-00-009000	151-10-314-00-010000	151-10-314-00-011000
16	20,3	7,62	10,1	25	151-10-316-00-009000	151-10-316-00-010000	151-10-316-00-011000
18	22,8	7,62	10,1	22	151-10-318-00-009000	151-10-318-00-010000	151-10-318-00-011000
20	25,3	7,62	10,1	20	151-10-320-00-009000	151-10-320-00-010000	151-10-320-00-011000
22	27,8	7,62	10,1	18	151-10-322-00-009000	151-10-322-00-010000	151-10-322-00-011000
24	30,4	7,62	10,1	16	151-10-324-00-009000	151-10-324-00-010000	151-10-324-00-011000
28	35,5	7,62	10,1	14	151-10-328-00-009000	151-10-328-00-010000	151-10-328-00-011000
20	25,4	10,16	12,7	20	151-10-420-00-009000	151-10-420-00-010000	151-10-420-00-011000
22	27,8	10,16	12,7	18	151-10-422-00-009000	151-10-422-00-010000	151-10-422-00-011000
24	30,4	10,16	12,7	16	151-10-424-00-009000	151-10-424-00-010000	151-10-424-00-011000
28	35,5	10,16	12,7	14	151-10-428-00-009000	151-10-428-00-010000	151-10-428-00-011000
32	40,6	10,16	12,7	12	151-10-432-00-009000	151-10-432-00-010000	151-10-432-00-011000
24	30,4	15,24	17,7	16	151-10-624-00-009000	151-10-624-00-010000	151-10-624-00-011000
28	35,5	15,24	17,7	14	151-10-628-00-009000	151-10-628-00-010000	151-10-628-00-011000
32	40,6	15,24	17,7	12	151-10-632-00-009000	151-10-632-00-010000	151-10-632-00-011000
36	45,7	15,24	17,7	11	151-10-636-00-009000	151-10-636-00-010000	151-10-636-00-011000
40	50,8	15,24	17,7	10	151-10-640-00-009000	151-10-640-00-010000	151-10-640-00-011000
42	53,3	15,24	17,7	9	151-10-642-00-009000	151-10-642-00-010000	151-10-642-00-011000
48	60,9	15,24	17,7	8	151-10-648-00-009000	151-10-648-00-010000	151-10-648-00-011000
50	63,5	15,24	17,7	8	151-10-650-00-009000	151-10-650-00-010000	151-10-650-00-011000
52	66,0	15,24	17,7	7	151-10-652-00-009000	151-10-652-00-010000	151-10-652-00-011000
50	63,5	22,86	25,3	8	151-10-950-00-009000	151-10-950-00-010000	151-10-950-00-011000
52	66,0	22,86	25,3	7	151-10-952-00-009000	151-10-952-00-010000	151-10-952-00-011000
64	81,2	22,86	25,3	6	151-10-964-00-009000	151-10-964-00-010000	151-10-964-00-011000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

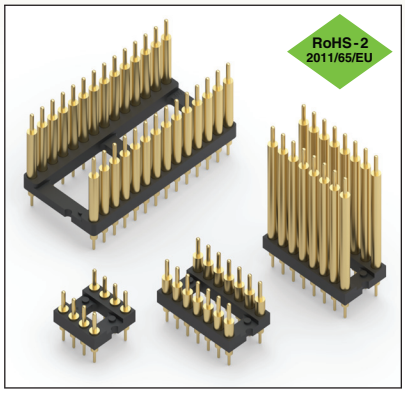
DUAL-IN-LINE HEADERS

SERIES 134 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 134 DIL Headers combine 0,76 diameter pins with pluggable 0,51 diameter solder tails
- Series:
  134...020 uses MM #3402 pins
  134...010 uses MM #3401 pins
  134...050 uses MM #3405 pins
  134...000 uses MM #3400 pins
  134...100 uses MM #3410 pins
  See page 215 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 4,83	L = 5,99	L = 8,0	L = 15,37	L = 27,18
10	12,6	5,08	7,6	41	134-10-210-00-020000	134-10-210-00-010000	134-10-210-00-050000	134-10-210-00-000000	134-10-210-00-100000
4	5,0	7,62	10,1	102	134-10-304-00-020000	134-10-304-00-010000	134-10-304-00-050000	134-10-304-00-000000	134-10-304-00-100000
6	7,6	7,62	10,1	67	134-10-306-00-020000	134-10-306-00-010000	134-10-306-00-050000	134-10-306-00-000000	134-10-306-00-100000
8	10,1	7,62	10,1	50	134-10-308-00-020000	134-10-308-00-010000	134-10-308-00-050000	134-10-308-00-000000	134-10-308-00-100000
10	12,6	7,62	10,1	40	134-10-310-00-020000	134-10-310-00-010000	134-10-310-00-050000	134-10-310-00-000000	134-10-310-00-100000
14	17,7	7,62	10,1	28	134-10-314-00-020000	134-10-314-00-010000	134-10-314-00-050000	134-10-314-00-000000	134-10-314-00-100000
16	20,3	7,62	10,1	25	134-10-316-00-020000	134-10-316-00-010000	134-10-316-00-050000	134-10-316-00-000000	134-10-316-00-100000
18	22,8	7,62	10,1	22	134-10-318-00-020000	134-10-318-00-010000	134-10-318-00-050000	134-10-318-00-000000	134-10-318-00-100000
20	25,3	7,62	10,1	20	134-10-320-00-020000	134-10-320-00-010000	134-10-320-00-050000	134-10-320-00-000000	134-10-320-00-100000
22	27,8	7,62	10,1	18	134-10-322-00-020000	134-10-322-00-010000	134-10-322-00-050000	134-10-322-00-000000	134-10-322-00-100000
24	30,4	7,62	10,1	16	134-10-324-00-020000	134-10-324-00-010000	134-10-324-00-050000	134-10-324-00-000000	134-10-324-00-100000
28	35,5	7,62	10,1	14	134-10-328-00-020000	134-10-328-00-010000	134-10-328-00-050000	134-10-328-00-000000	134-10-328-00-100000
20	25,4	10,16	12,7	20	134-10-420-00-020000	134-10-420-00-010000	134-10-420-00-050000	134-10-420-00-000000	134-10-420-00-100000
22	27,8	10,16	12,7	18	134-10-422-00-020000	134-10-422-00-010000	134-10-422-00-050000	134-10-422-00-000000	134-10-422-00-100000
24	30,4	10,16	12,7	16	134-10-424-00-020000	134-10-424-00-010000	134-10-424-00-050000	134-10-424-00-000000	134-10-424-00-100000
28	35,5	10,16	12,7	14	134-10-428-00-020000	134-10-428-00-010000	134-10-428-00-050000	134-10-428-00-000000	134-10-428-00-100000
32	40,6	10,16	12,7	12	134-10-432-00-020000	134-10-432-00-010000	134-10-432-00-050000	134-10-432-00-000000	134-10-432-00-100000
24	30,4	15,24	17,7	16	134-10-624-00-020000	134-10-624-00-010000	134-10-624-00-050000	134-10-624-00-000000	134-10-624-00-100000
28	35,5	15,24	17,7	14	134-10-628-00-020000	134-10-628-00-010000	134-10-628-00-050000	134-10-628-00-000000	134-10-628-00-100000
32	40,6	15,24	17,7	12	134-10-632-00-020000	134-10-632-00-010000	134-10-632-00-050000	134-10-632-00-000000	134-10-632-00-100000
36	45,7	15,24	17,7	11	134-10-636-00-020000	134-10-636-00-010000	134-10-636-00-050000	134-10-636-00-000000	134-10-636-00-100000
40	50,8	15,24	17,7	10	134-10-640-00-020000	134-10-640-00-010000	134-10-640-00-050000	134-10-640-00-000000	134-10-640-00-100000
42	53,3	15,24	17,7	9	134-10-642-00-020000	134-10-642-00-010000	134-10-642-00-050000	134-10-642-00-000000	134-10-642-00-100000
48	60,9	15,24	17,7	8	134-10-648-00-020000	134-10-648-00-010000	134-10-648-00-050000	134-10-648-00-000000	134-10-648-00-100000
50	63,5	15,24	17,7	8	134-10-650-00-020000	134-10-650-00-010000	134-10-650-00-050000	134-10-650-00-000000	134-10-650-00-100000
52	66,0	15,24	17,7	7	134-10-652-00-020000	134-10-652-00-010000	134-10-652-00-050000	134-10-652-00-000000	134-10-652-00-100000
50	63,5	22,86	25,3	8	134-10-950-00-020000	134-10-950-00-010000	134-10-950-00-050000	134-10-950-00-000000	134-10-950-00-100000
52	66,0	22,86	25,3	7	134-10-952-00-020000	134-10-952-00-010000	134-10-952-00-050000	134-10-952-00-000000	134-10-952-00-100000
64	81,2	22,86	25,3	6	134-10-964-00-020000	134-10-964-00-010000	134-10-964-00-050000	134-10-964-00-000000	134-10-964-00-100000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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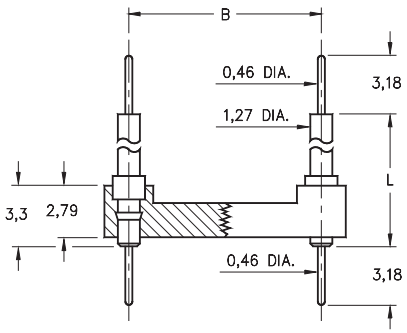
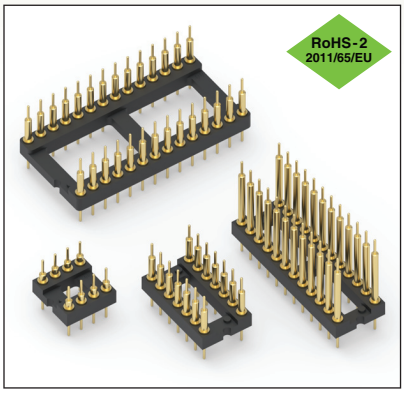
DUAL-IN-LINE HEADERS

SERIES 142 • INTERCONNECT • OPEN FRAME



See page 130 for Insulator Details

- Series 142 DIL Headers have double-ended 0,46 diameter pluggable solder tails
- Used to interconnect PC Boards with spacings of 5,33, 8,51, 14,86 or 21,21. Series 142 uses MM #4259-1, -2, -3 or -4 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	L = 5,33	L = 8,51	L = 14,86	L = 21,21
6	7,6	7,62	10,1	67	142-XX-306-00-591000	142-XX-306-00-592000	142-XX-306-00-593000	142-XX-306-00-594000
8	10,1	7,62	10,1	50	142-XX-308-00-591000	142-XX-308-00-592000	142-XX-308-00-593000	142-XX-308-00-594000
14	17,7	7,62	10,1	29	142-XX-314-00-591000	142-XX-314-00-592000	142-XX-314-00-593000	142-XX-314-00-594000
16	20,3	7,62	10,1	25	142-XX-316-00-591000	142-XX-316-00-592000	142-XX-316-00-593000	142-XX-316-00-594000
18	22,8	7,62	10,1	22	142-XX-318-00-591000	142-XX-318-00-592000	142-XX-318-00-593000	142-XX-318-00-594000
20	25,3	7,62	10,1	40	142-XX-320-00-591000	142-XX-320-00-592000	142-XX-320-00-593000	142-XX-320-00-594000
24	30,4	7,62	10,1	17	142-XX-324-00-591000	142-XX-324-00-592000	142-XX-324-00-593000	142-XX-324-00-594000
22	27,8	10,16	12,7	14	142-XX-422-00-591000	142-XX-422-00-592000	142-XX-422-00-593000	142-XX-422-00-594000
24	30,4	15,24	17,7	16	142-XX-624-00-591000	142-XX-624-00-592000	142-XX-624-00-593000	142-XX-624-00-594000
28	35,5	15,24	17,7	14	142-XX-628-00-591000	142-XX-628-00-592000	142-XX-628-00-593000	142-XX-628-00-594000
32	40,6	15,24	17,7	12	142-XX-632-00-591000	142-XX-632-00-592000	142-XX-632-00-593000	142-XX-632-00-594000
40	50,8	15,24	17,7	10	142-XX-640-00-591000	142-XX-640-00-592000	142-XX-640-00-593000	142-XX-640-00-594000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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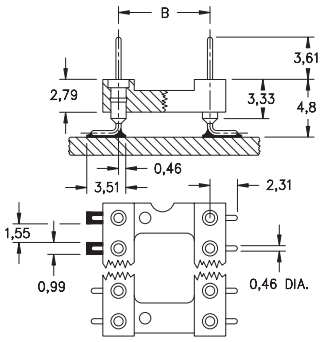
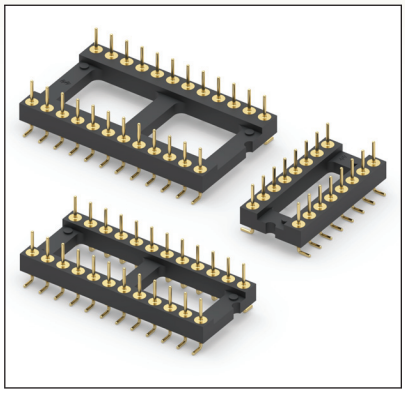
DUAL-IN-LINE HEADERS

SERIES 150 • SURFACE MOUNT, GULL WING • OPEN FRAME



See page 130 for Insulator Details

- Surface mount Gull Wing DIP headers for adapters and board stacking on 2,54 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 150 uses MM #3404 pins. See page 212 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
10	12,6	5,08	7,6	40	150-10-210-00-106000
4	5,0	7,62	10,1	102	150-10-304-00-106000
6	7,6	7,62	10,1	67	150-10-306-00-106000
8	10,1	7,62	10,1	50	150-10-308-00-106000
10	12,6	7,62	10,1	40	150-10-310-00-106000
14	17,7	7,62	10,1	29	150-10-314-00-106000
16	20,3	7,62	10,1	25	150-10-316-00-106000
18	22,8	7,62	10,1	22	150-10-318-00-106000
20	25,3	7,62	10,1	20	150-10-320-00-106000
22	27,8	7,62	10,1	18	150-10-322-00-106000
24	30,4	7,62	10,1	16	150-10-324-00-106000
28	35,5	7,62	10,1	14	150-10-328-00-106000
20	25,4	10,16	12,7	20	150-10-420-00-106000
22	27,8	10,16	12,7	18	150-10-422-00-106000
24	30,4	10,16	12,7	16	150-10-424-00-106000
28	35,5	10,16	12,7	14	150-10-428-00-106000
32	40,6	10,16	12,7	12	150-10-432-00-106000
24	30,4	15,24	17,7	16	150-10-624-00-106000
28	35,5	15,24	17,7	14	150-10-628-00-106000
32	40,6	15,24	17,7	12	150-10-632-00-106000
36	45,7	15,24	17,7	11	150-10-636-00-106000
40	50,8	15,24	17,7	10	150-10-640-00-106000
42	53,3	15,24	17,7	9	150-10-642-00-106000
48	60,9	15,24	17,7	8	150-10-648-00-106000
50	63,5	15,24	17,7	8	150-10-650-00-106000
52	66,0	15,24	17,7	7	150-10-652-00-106000
50	63,5	22,86	25,3	8	150-10-950-00-106000
52	66,0	22,86	25,3	7	150-10-952-00-106000
64	81,2	22,86	25,3	6	150-10-964-00-106000

XX=Plating Code See Below

RoHS-2 2011/65/EU

See page 264 for coplanarity information

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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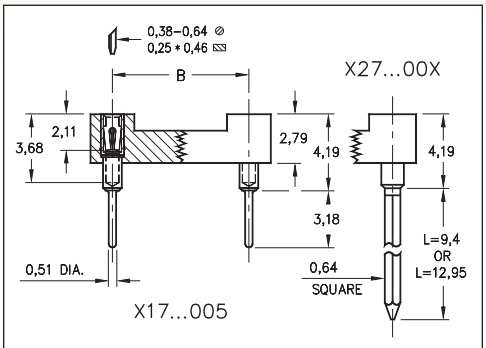
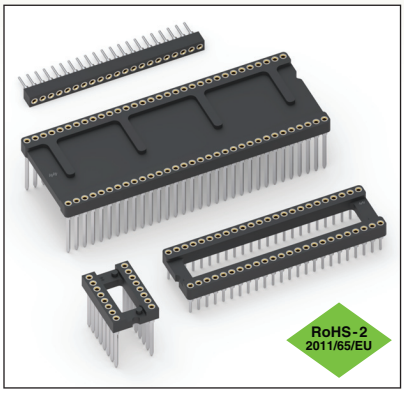
DUAL-IN-LINE SOCKETS

SERIES 117, 127, 217, 227, 317, 327 • SHRINK DIP, SOLDER TAIL & WRAPOST



See page 132 for Insulator Details

- High density DIP sockets and strips for devices featuring 1,78 lead spacing
- Solder tails use MM #1802 receptacles, See page 169 for details. Wraposts use MM #1702-2 or 1703-3 receptacles, See page 198 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	Solder Tail	L = 9,4 (2 Level Wrapost)	L = 12,95 (3 Level Wrapost)
					OPEN FRAME DIP SOCKET		
16	14,53	7,62	9,91	35	117-XX-316-41-005000	127-XX-316-41-002000	127-XX-316-41-003000
28	25,2	10,16	12,45	20	117-XX-428-41-005000	127-XX-428-41-002000	127-XX-428-41-003000
30	26,97	10,16	12,45	18	117-XX-430-41-005000	127-XX-430-41-002000	127-XX-430-41-003000
48	42,98	10,16	12,45	12	117-XX-448-41-005000	127-XX-448-41-002000	127-XX-448-41-003000
20	18,08	15,24	17,53	28	117-XX-620-41-005000	127-XX-620-41-002000	127-XX-620-41-003000
28	25,2	15,24	17,53	20	117-XX-628-41-005000	127-XX-628-41-002000	127-XX-628-41-003000
40	35,86	15,24	17,53	14	117-XX-640-41-005000	127-XX-640-41-002000	127-XX-640-41-003000
42	37,64	15,24	17,53	13	117-XX-642-41-005000	127-XX-642-41-002000	127-XX-642-41-003000
48	42,98	15,24	17,53	11	117-XX-648-41-005000	127-XX-648-41-002000	127-XX-648-41-003000
52	46,53	15,24	17,53	11	117-XX-652-41-005000	127-XX-652-41-002000	127-XX-652-41-003000
56	50,1	15,24	17,53	10	117-XX-656-41-005000	127-XX-656-41-002000	127-XX-656-41-003000
64	57,2	15,24	17,53	8	117-XX-664-41-005000	127-XX-664-41-002000	127-XX-664-41-003000
68	60,76	15,24	17,53	8	117-XX-668-41-005000	127-XX-668-41-002000	127-XX-668-41-003000
64	57,2	19,05	21,34	8	117-XX-764-41-005000	127-XX-764-41-002000	127-XX-764-41-003000
					CLOSED FRAME DIP SOCKET		
64	57,2	19,05	21,34	8	217-XX-764-41-005000	227-XX-764-41-002000	227-XX-764-41-003000
					SINGLE ROW STRIP SOCKET If desired, we will supply any length up to 21 pins.		
21	37,64	---	2,64	-	317-XX-121-41-005000	327-XX-121-41-002000	327-XX-121-41-003000

XX=Plating Code See to Right

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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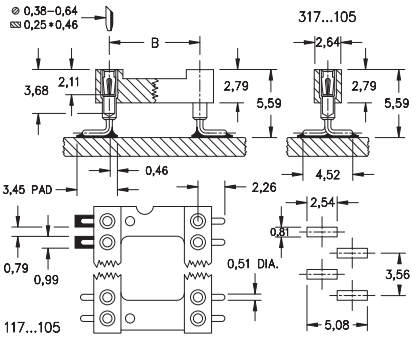
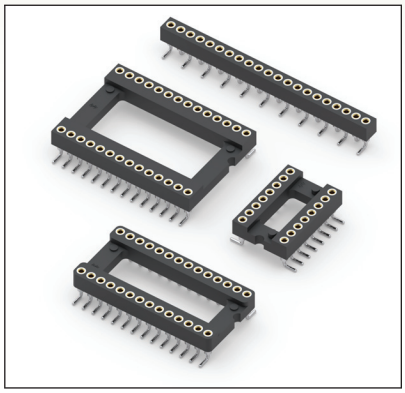
DUAL-IN-LINE SOCKETS

SERIES 117, 317 • GULL WING SHRINK DIP SOCKETS & STRIPS, SMT SOLDER TAIL



See page 132 for Insulator Details

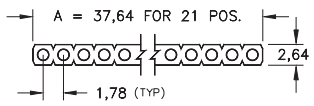
- Surface mount Gull Wing DIP & strip sockets for devices featuring 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Series 117 and 317 use MM #1802 pins. See page 169 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
16	14,53	7,62	9,91	35	117-XX-316-41-105000
28	25,20	10,16	12,45	20	117-XX-428-41-105000
30	26,97	10,16	12,45	18	117-XX-430-41-105000
48	42,98	10,16	12,45	12	117-XX-448-41-105000
20	18,08	15,24	17,53	28	117-XX-620-41-105000
28	25,20	15,24	17,53	20	117-XX-628-41-105000
40	35,86	15,24	17,53	14	117-XX-640-41-105000
42	37,64	15,24	17,53	13	117-XX-642-41-105000
48	42,98	15,24	17,53	12	117-XX-648-41-105000
52	46,53	15,24	17,53	11	117-XX-652-41-105000
56	50,09	15,24	17,53	10	117-XX-656-41-105000
64	57,20	15,24	17,53	9	117-XX-664-41-105000
68	60,76	15,24	17,53	8	117-XX-668-41-105000
64	57,20	19,05	21,34	8	117-XX-764-41-105000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP SOCKET

If desired, we will supply any length up to 21 pins.

21	37,64	---	2,64	-	317-XX-121-41-105000

See page 264 for coplanarity information

SPECIFY PLATING CODE XX=		91			41 ◆	43 ◆	
Sleeve (Pin)		5,08µm Sn/Pb			5,08µm Sn	5,08µm Sn	
Contact (Clip)		0,25µm Au			0,25µm Au	0,76µm Au	

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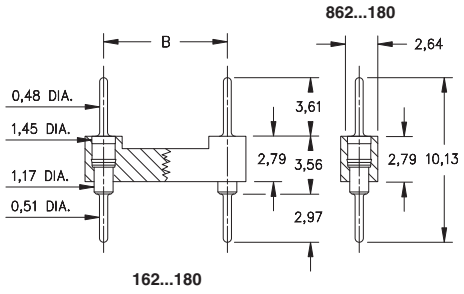
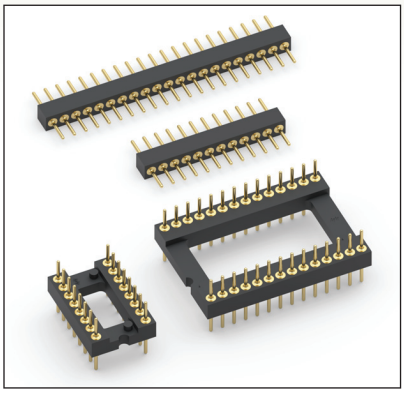
DUAL-IN-LINE HEADERS

SERIES 162, 862 • SHRINK DIP HEADER AND STRIPS, SOLDER TAIL



See page 132 for Insulator Details

- High density DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Series 162 DIP headers and Series 862 strip headers use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details

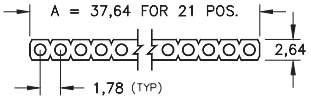


ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	
16	14,53	7,62	9,91	35	162-XX-316-00-180000
28	25,20	10,16	12,45	20	162-XX-428-00-180000
30	26,97	10,16	12,45	18	162-XX-430-00-180000
48	42,98	10,16	12,45	12	162-XX-448-00-180000
20	18,08	15,24	17,53	28	162-XX-620-00-180000
28	25,20	15,24	17,53	20	162-XX-628-00-180000
40	35,86	15,24	17,53	14	162-XX-640-00-180000
42	37,64	15,24	17,53	13	162-XX-642-00-180000
48	42,98	15,24	17,53	12	162-XX-648-00-180000
52	46,53	15,24	17,53	11	162-XX-652-00-180000
56	50,09	15,24	17,53	10	162-XX-656-00-180000
64	57,20	15,24	17,53	9	162-XX-664-00-180000
68	60,76	15,24	17,53	8	162-XX-668-00-180000
64	57,20	19,05	21,34	8	162-XX-764-00-180000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP HEADER
If desired, we will supply any length up to 21 pins.

21	37,64	---	2,64	---	862-XX-021-00-180000

SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆
Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn

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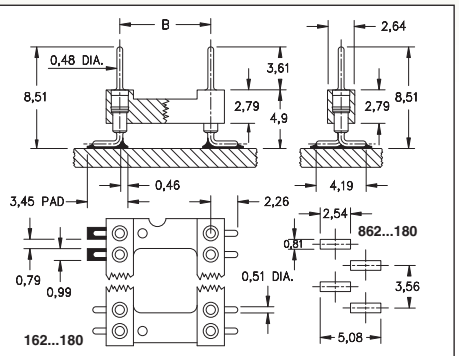
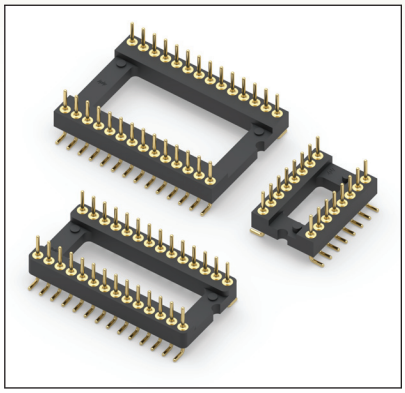
DUAL-IN-LINE HEADERS

SERIES 162, 862 • GULL WING SHRINK DIP HEADERS & STRIPS, SMT SOLDER TAIL



See page 132 for Insulator Details

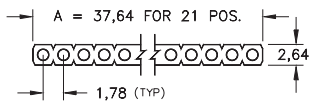
- Surface mount Gull Wing DIP headers & strips for adapters and board stacking applications with 1,78 lead spacing
- Gull wing terminals provide maximum strength and permit easy visual inspection of solder joints
- Series 162 and Series 862 use MM #6218 pins. See page 208 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



Total number of pins	A	B	C	Quantity per tube	ORDERING INFORMATION
16	14,53	7,62	9,91	35	162-10-316-30-180000
28	25,20	10,16	12,45	20	162-10-428-30-180000
30	26,97	10,16	12,45	18	162-10-430-30-180000
48	42,98	10,16	12,45	12	162-10-448-30-180000
20	18,08	15,24	17,53	28	162-10-620-30-180000
28	25,20	15,24	17,53	20	162-10-628-30-180000
40	35,86	15,24	17,53	14	162-10-640-30-180000
42	37,64	15,24	17,53	13	162-10-642-30-180000
48	42,98	15,24	17,53	12	162-10-648-30-180000
52	46,53	15,24	17,53	11	162-10-652-30-180000
56	50,09	15,24	17,53	10	162-10-656-30-180000
64	57,20	15,24	17,53	9	162-10-664-30-180000
68	60,76	15,24	17,53	8	162-10-668-30-180000
64	57,20	19,05	21,34	8	162-10-764-30-180000

XX=Plating Code See Below

RoHS-2 2011/65/EU



SINGLE ROW STRIP SOCKET

If desired, we will supply any length up to 21 pins.

21	37,64	---	2,64	---	862-10-021-30-180000

See page 264 for coplanarity information

SPECIFY PLATING CODE XX =	10 ◆			
Pin Plating	0,25µm Au			

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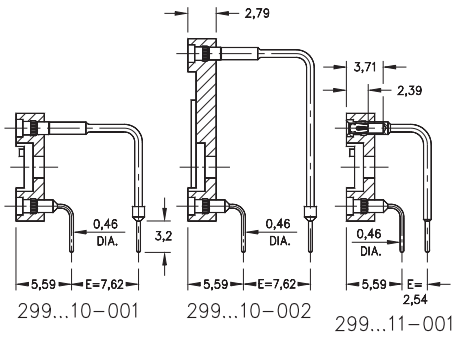
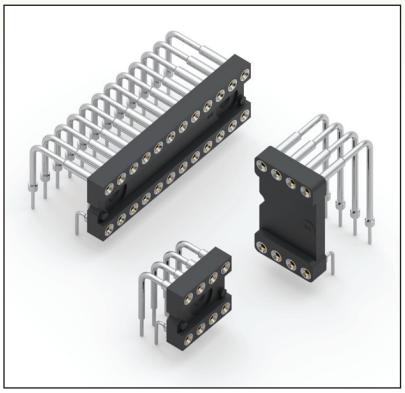
DUAL-IN-LINE SOCKETS

SERIES 299 • RIGHT ANGLE MOUNT • CLOSED FRAME



See page 131 for Insulator Details

- Ideal for mounting components, such as LED displays, where the face must be parallel to the PCB surface
- Sockets have solder tail termination and are available with either 7,62 (standard) or 2,54 row spacing
- Series 299 uses MM #1103/0903, #1103/1610 or #1103/0904 pins. See pages 166 & 167 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Total number of pins	A	B	C	Quantity per tube	E= 2,54	E = 7,62
6	7,6	7,62	10,1		299-XX-306-11-001000	* 299-XX-306-10-001000
8	10,1	7,62	10,1		299-XX-308-11-001000	* 299-XX-308-10-001000
10	12,6	7,62	10,1		299-XX-310-11-001000	* 299-XX-310-10-001000
12	15,2	7,62	10,1	33	299-XX-312-11-001000	* 299-XX-312-10-001000
14	17,7	7,62	10,1	29	299-XX-314-11-001000	* 299-XX-314-10-001000
16	20,3	7,62	10,1	25	299-XX-316-11-001000	* 299-XX-316-10-001000
18	22,8	7,62	10,1	22	299-XX-318-11-001000	* 299-XX-318-10-001000
20	25,3	7,62	10,1	20	299-XX-320-11-001000	* 299-XX-320-10-001000
24	30,4	7,62	10,1	16	299-XX-324-11-001000	* 299-XX-324-10-001000
8	10,1	15,24	17,7	50		299-XX-608-10-002000
10	12,6	15,24	17,7	40		299-XX-610-10-002000
12	15,2	15,24	17,7	34		299-XX-612-10-002000
14	17,7	15,24	17,7	28		299-XX-614-10-002000
16	20,3	15,24	17,7	25		299-XX-616-10-002000
18	22,8	15,24	17,7	22		299-XX-618-10-002000
20	25,3	15,24	17,7	20		299-XX-620-10-002000
22	27,8	15,24	17,7	18		299-XX-622-10-002000
24	30,4	15,24	17,7	16		299-XX-624-10-002000
26	33,0	15,24	17,7	15		299-XX-626-10-002000
28	35,5	15,24	17,7	14		299-XX-628-10-002000
30	38,1	15,24	17,7	13		299-XX-630-10-002000
32	40,6	15,24	17,7	12		299-XX-632-10-002000
36	45,7	15,24	17,7	11		299-XX-636-10-002000
40	50,8	15,24	17,7	10		299-XX-640-10-002000

* Not available in tubes

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX =			93			43 ◆	
Sleeve (Pin)			5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)			0,76µm Au			0,76µm Au	

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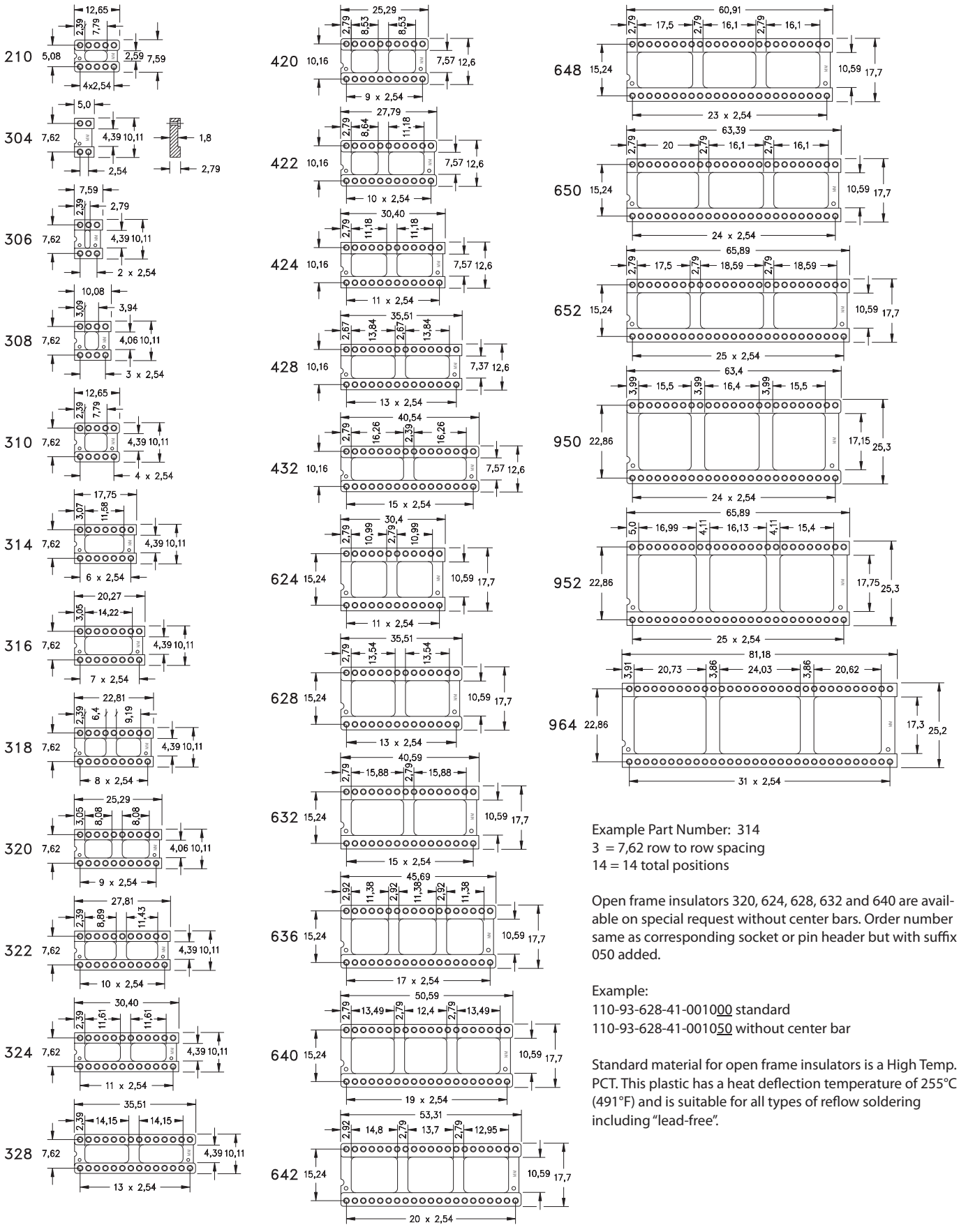
DUAL-IN-LINE INSULATORS
STANDARD OPEN FRAME



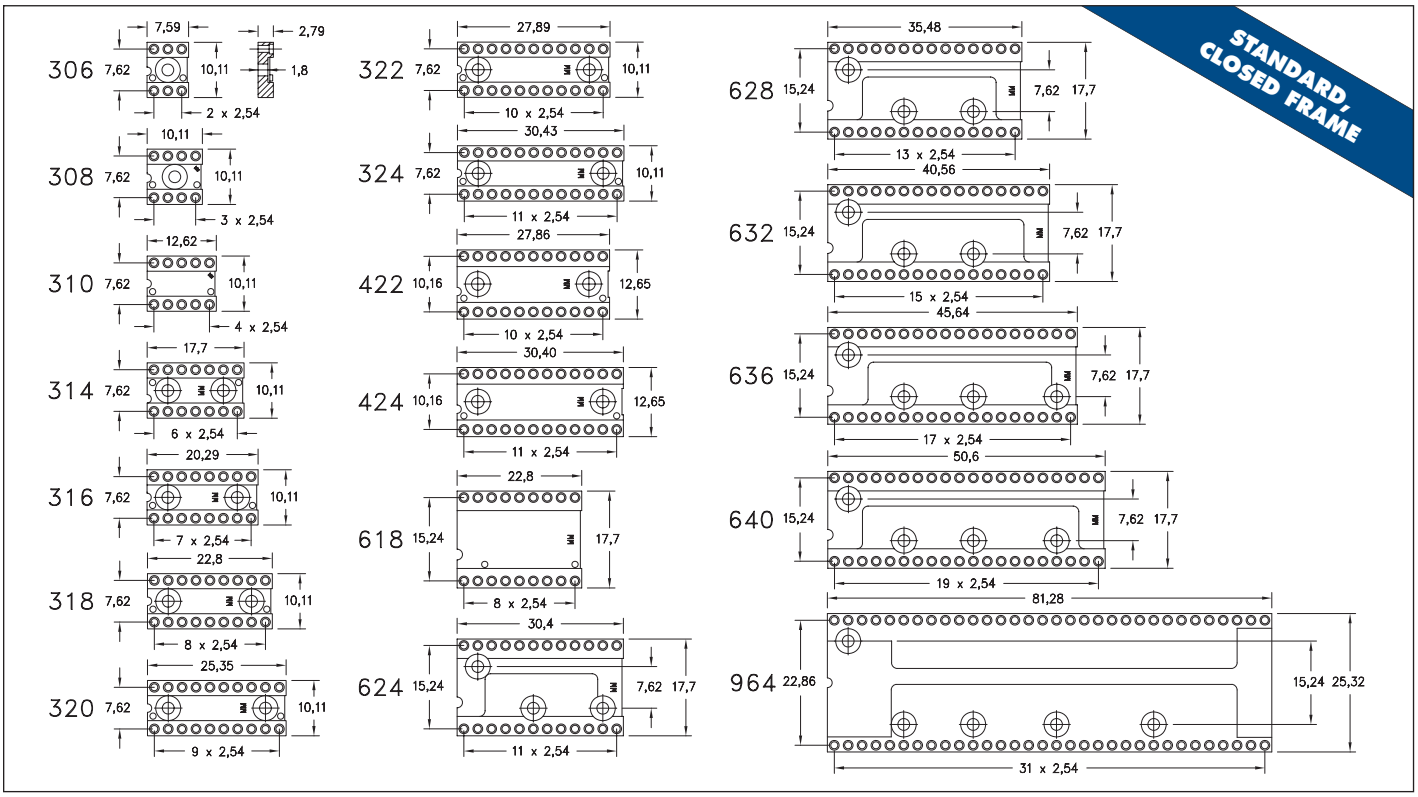
Example Part Number: 314
3 = 7,62 row to row spacing
14 = 14 total positions

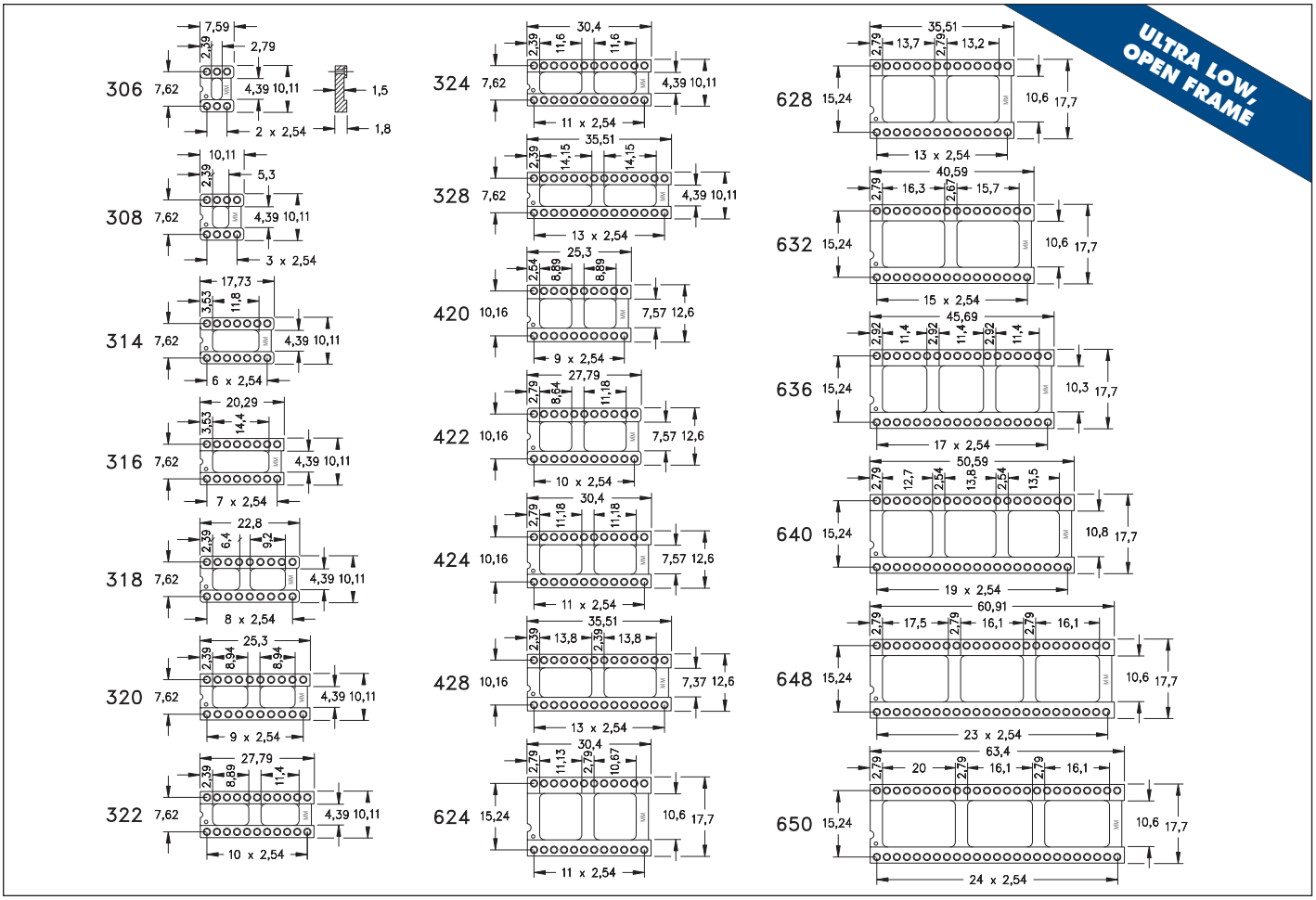
Open frame insulators 320, 624, 628, 632 and 640 are available on special request without center bars. Order number same as corresponding socket or pin header but with suffix 050 added.

Example:
110-93-628-41-001000 standard
110-93-628-41-001050 without center bar

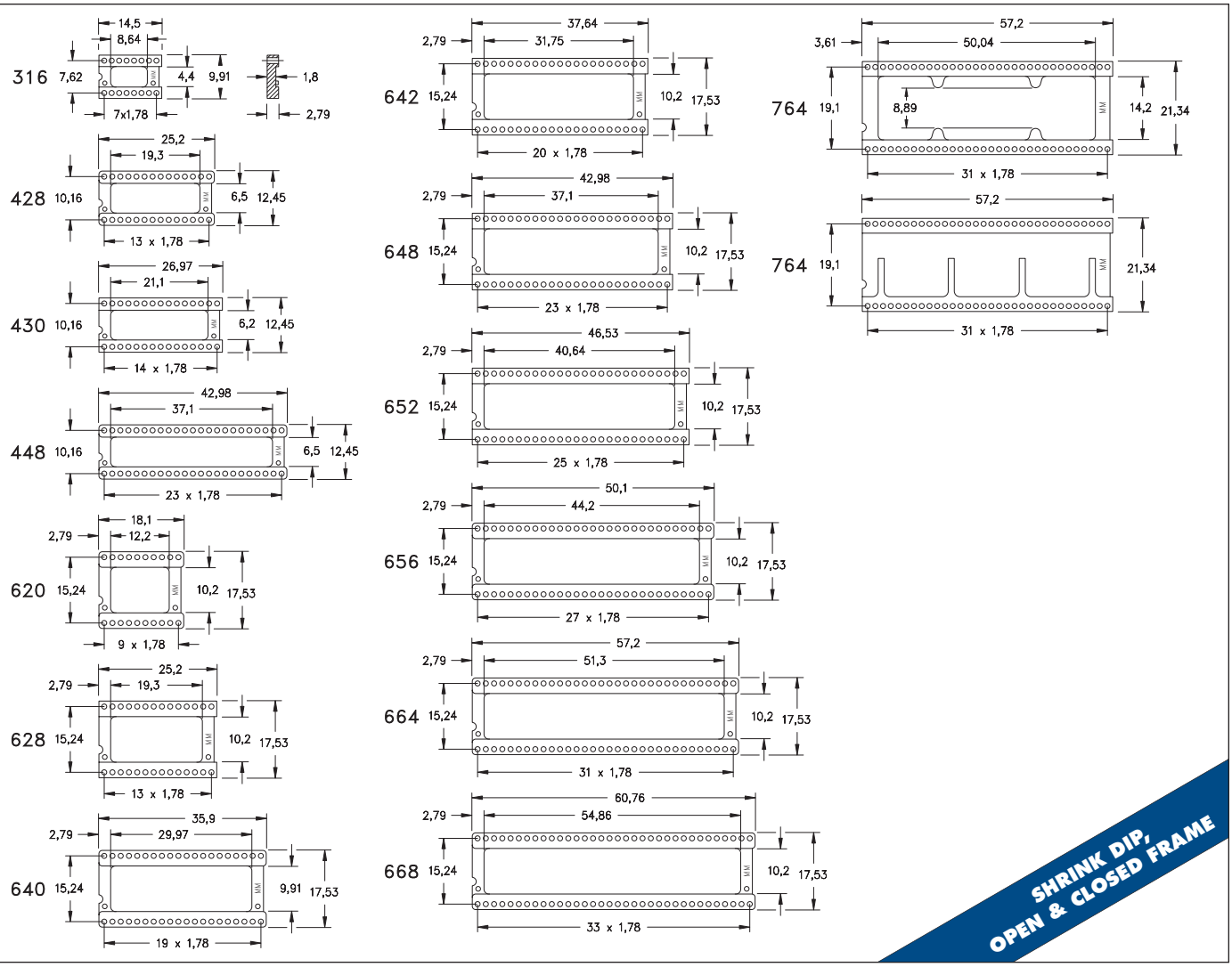
Standard material for open frame insulators is a High Temp. PCT. This plastic has a heat deflection temperature of 255°C (491°F) and is suitable for all types of reflow soldering including "lead-free".

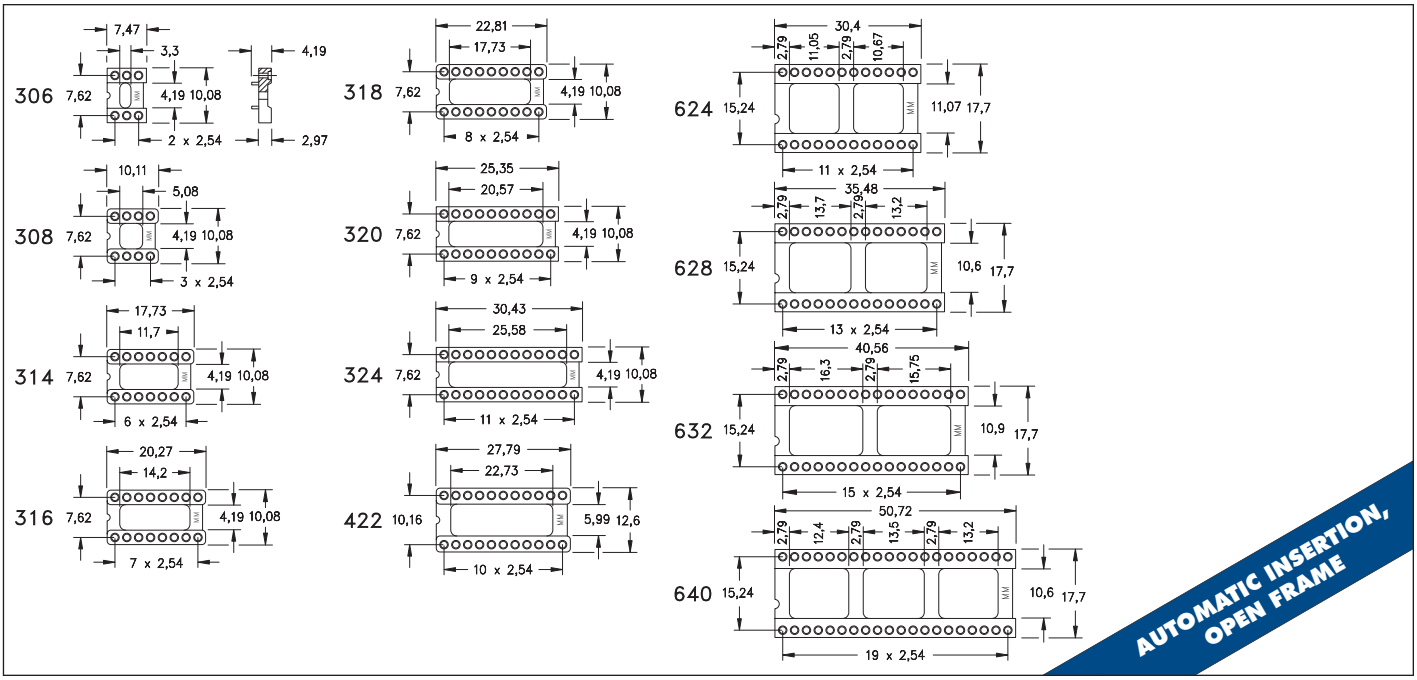
DUAL-IN-LINE INSULATORS
STANDARD, CLOSED FRAME • ULTRA LOW PROFILE, OPEN FRAME





DUAL-IN-LINE INSULATORS
SHRINK DIP, OPEN & CLOSED FRAME • AUTOMATIC INSERTION, OPEN FRAME





DUAL-IN-LINE SOCKETS

SERIES 296, 299, 594 • DISPLAY SOCKETS

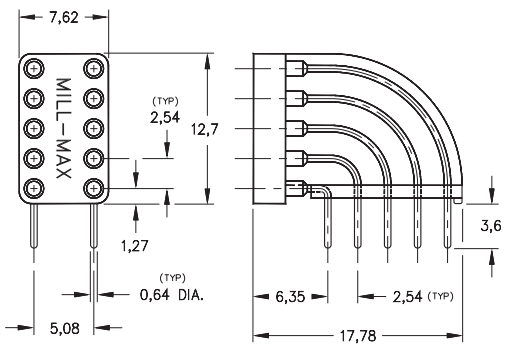
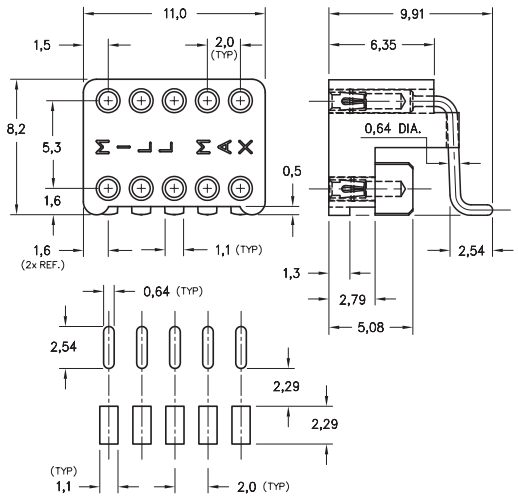


FIG. 1



FOOTPRINT

FIG. 2

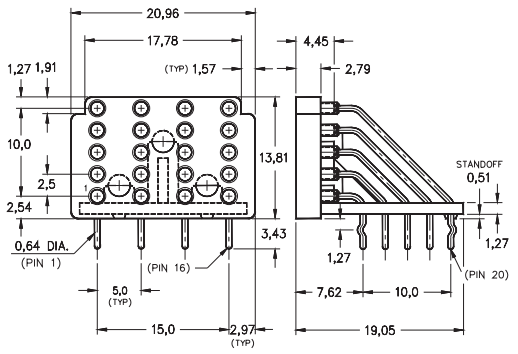
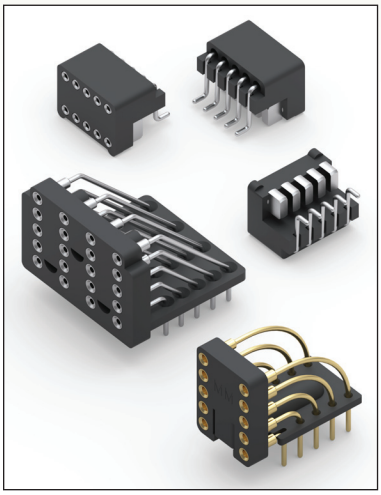


FIG. 3

- Series 296, 299 and 594 display sockets are used to mount dot matrix and 7-segment LED displays at the edge of and perpendicular to a printed circuit board. This positions the display directly behind the translucent front panel of the equipment
- Series 299 & 594 are through-hole mount and can be wave or intrusive reflow soldered
- Series 296 is surface mount and can be supplied on carrier tape for automated "pick 'n place" assembly
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- See also page 129 for Right Angle DIP Sockets
- Insulators are high temp. Nylon 46, suitable for all soldering processes including "lead-free"
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1

Series 299...001 — **10 Pin Vertical Display Socket**

Discrete Sockets

299-99-210-12-001800

Plating Code

FIG. 2

Series 296...691 — **10 Pin Horizontal Display Socket**

Discrete Sockets

296-XX-010-30-691800

Plating Code

Series 296...692 — **10 Pin Horizontal Display Socket**

Supplied on 24mm wide carrier tape per EIA-481: 450 per 330mm reel

296-XX-010-30-692800

Plating Code

FIG. 3

Series 594...007 — **20 Pin Vertical Display Socket**

Discrete Sockets

594-XX-020-01-007032

Plating Code

RoHS-2 2011/65/EU

XX=Plating Code See Below

SPECIFY PLATING CODE XX=				99			44 ◆
Sleeve (Pin)				5,08µm Sn/Pb			5,08µm Sn
Contact (Clip)				5,08µm Sn/Pb			5,08µm Sn

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DUAL-IN-LINE SOCKETS

SERIES 110, 410 • RELAY AND ZIG-ZAG SOCKETS

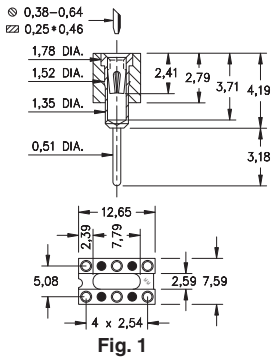


Fig. 1

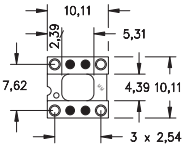


Fig. 2

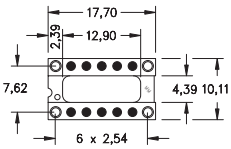


Fig. 3

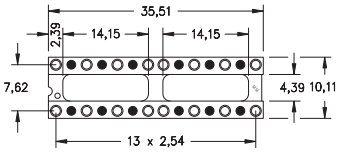
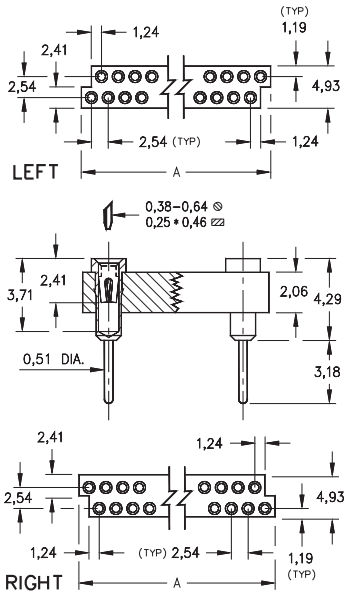
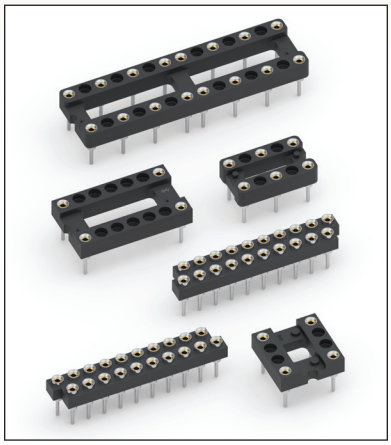


Fig. 4

○ = Loaded Position ● = Empty Position



- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 135
- Zig-Zag strip sockets are suitable for IC's and memory chips with staggered double row patterns
- Series 110 and 410 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Selectively Loaded Sockets For Dual-In-Line Relays

	Number of Pins	Ordering Information
FIG. 1	6	110-XX-210-10-001000
FIG. 2	4	110-XX-308-10-001000
FIG. 3	4	110-XX-314-10-001000
FIG. 4	16	110-XX-328-10-001000

Staggered (Zig-Zag) Strip Sockets

Dim 'A'	Number of Pins	Insulator Body	Ordering Information
18,97	14	Left, Stackable	410-XX-214-10-001000
18,97	14	Right, Stackable	410-XX-214-10-002000
21,51	16	Left, Stackable	410-XX-216-10-001000
21,51	16	Right, Stackable	410-XX-216-10-002000
26,59	20	Left, Stackable	410-XX-220-10-001000
26,59	20	Right, Stackable	410-XX-220-10-002000
31,67	24	Left, Stackable	410-XX-224-10-001000
31,67	24	Right, Stackable	410-XX-224-10-002000
36,75	28	Left, Stackable	410-XX-228-10-001000
36,75	28	Right, Stackable	410-XX-228-10-002000

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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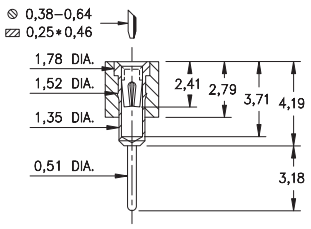
DUAL-IN-LINE SOCKETS

SERIES 110 • SELECTIVELY LOADED RELAY DIP SOCKET, SOLDER TAIL



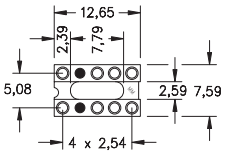


Fig. 1

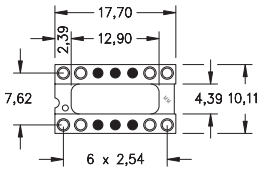


Fig. 2

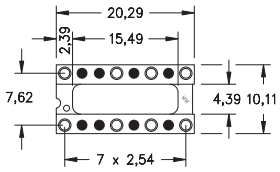


Fig. 3

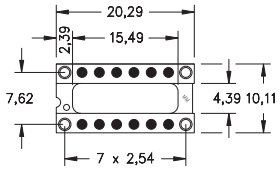


Fig. 4

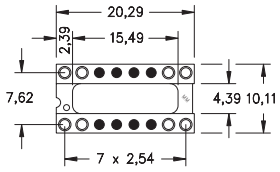


Fig. 5

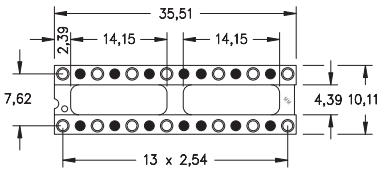
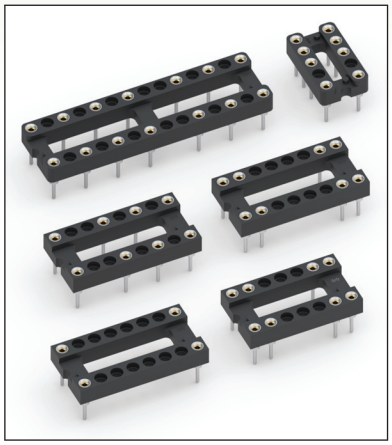


Fig. 6

○ = Loaded Position ● = Empty Position

- Relay sockets accept devices with I/O pins on 2,54 grid
- Additional Relay DIP socket patterns are available on Page 134
- Series 110 use MM #1001 receptacles. See page 165 for details
- Hi-Rel, 4-finger BeCu #30 contact is rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

FIG. 1	**Series 110...002**	**8 Position Relay Socket**
	110-XX-210-10-002000	
FIG. 2	**Series 110...002**	**8 Position Relay Socket**
	110-XX-314-10-002000	
FIG. 3	**Series 110...003**	**8 Position Relay Socket**
	110-XX-316-10-003000	
FIG. 4	**Series 110...004**	**4 Position Relay Socket**
	110-XX-316-10-004000	
FIG. 5	**Series 110...005**	**8 Position Relay Socket**
	110-XX-316-10-005000	
FIG. 6	**Series 110...002**	**14 Position Relay Socket**
	110-XX-328-10-002000	

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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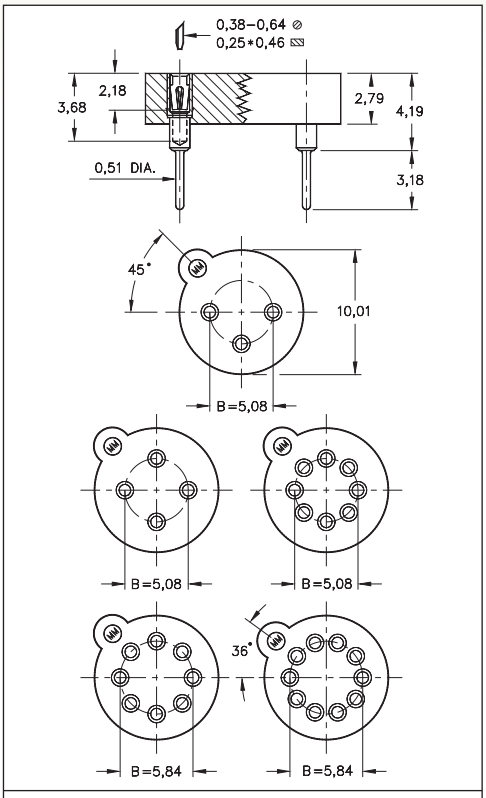
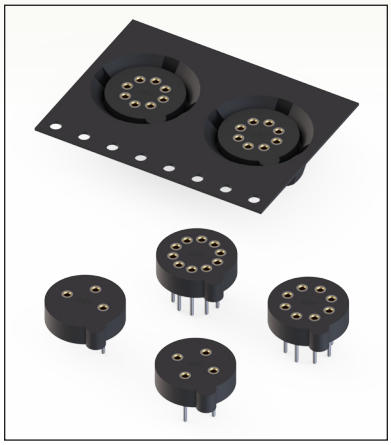
TRANSISTOR SOCKETS

SERIES 917 • SURFACE AND THROUGH-HOLE MOUNT



- Series 917 TO package sockets are available in 3, 4, 8 and 10 positions
- Two 8 pin versions feature pin centers on 5,08 or 5,84 circle
- Series 917...005 use MM #1705 and MM #1802 pins, see pages 168 and 169 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Series 917...001 uses MM #1701 pins. See page 171 for details. Receptacles use Hi-Rel, 4 finger #30 contact rated at 3 amps. See page 253 for details
- Insulators are high temperature thermoplastic, suitable for all soldering operations
- For Electrical, Mechanical and Environmental Data, see page 264 for details



ORDERING INFORMATION

Transistor Sockets (Through-Hole Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-005000
TO-5	5,08	4	917-XX-104-41-005000
TO-5	5,08	8	917-XX-108-41-005000
TO-100	5,84	8	917-XX-208-41-005000
TO-100	5,84	10	917-XX-210-41-005000

Transistor Sockets (Surface Mount)

Type	Circle Dia.	Number of Pins	Ordering Information
TO-5	5,08	3	917-XX-103-41-001000
TO-5	5,08	4	917-XX-104-41-001000
TO-5	5,08	8	917-XX-108-41-001000
TO-100	5,84	8	917-XX-208-41-001000
TO-100	5,84	10	917-XX-210-41-001000

Tape and Reel Packaging: (Surface Mount ONLY)

Ordering Information: 917-XX-XXX-41-001799

Available on 24mm wide tape, 730 parts per 330mm reel

XX=Plating Code See Below

RoHS-2 2011/65/EU

SPECIFY PLATING CODE XX=		91	93		41 ◆	43 ◆	47 ◆
Sleeve (Pin)		5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	5,08µm Sn	5,08µm Sn
Contact (Clip)		0,25µm Au	0,76µm Au		0,25µm Au	0,76µm Au	Au Flash

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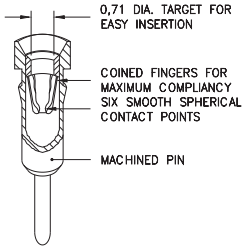
PIN GRID ARRAY SOCKETS

TECHNICAL SPECIFICATIONS

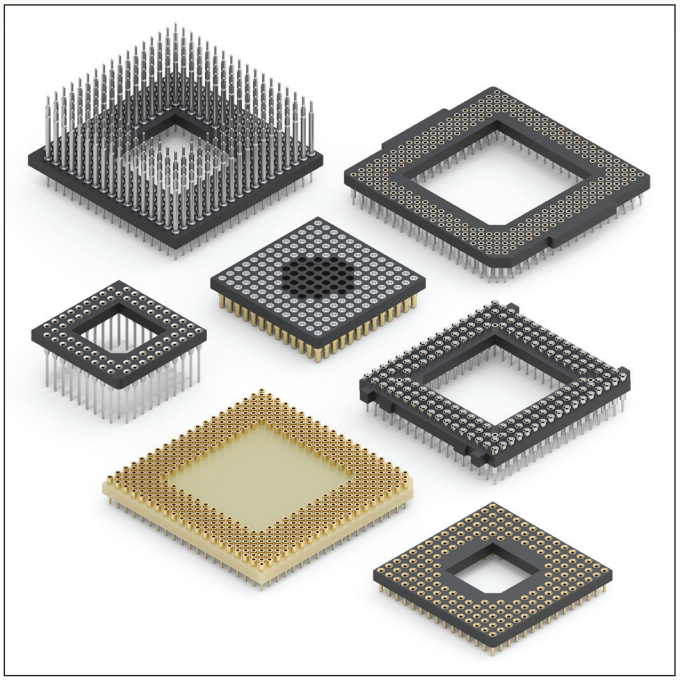
Pin grid array sockets are designed to accept high pin count IC's. They use low force 6-finger contacts to ease insertion / extraction of the device. Standard low force (MM #32) contact is used for pin counts up to 150, ultra-low force (MM #35) contact is recommended for 150 pins or more but less than 250 pins. The "ultra lite" (MM #43) is recommended for 250 pins or more.

CONTACT DETAIL



PGA sockets all have precision-machined pins. This offers the lowest possible profile. The closed bottom design also eliminates flux and solder contamination, and the pins are in-line with contact entry.

Insulator bodies are molded from high temperature PCT polyester suitable for all forms of soldering including wave, infra-red reflow and vapor phase.



TECHNICAL SPECIFICATIONS

Materials

Insulator body:
- High temperature glass-filled thermoplastic polyester (PCT)
- Heat deflection temperature (HDT @ 264 PSI) = 255°C (490°F)
- Self-extinguishing, rated UL94V-0

Receptacle (Sleeve):
- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

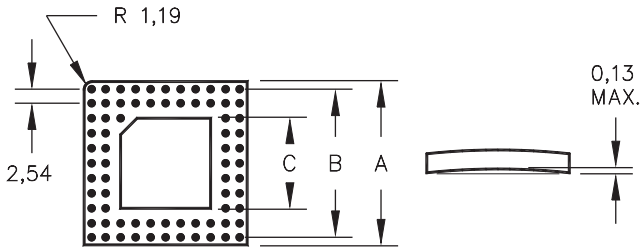
Pin:
- Screw machined brass (ASTM-B16-00), plated 0,25µm gold, 5,08µm tin or 5,08µm tin-lead (SnPb 90/10) over 2,54µm nickel.

Contact (clip):
- Stamped beryllium-copper (ASTM-B194-01), plated 0,25µm or 0,76µm gold over 1,27µm nickel.

Mechanical Data
- Insertion characteristics:
- Measured with a polished steel gauge 0,46 diameter
- Low force MM#32 (01 suffix) typical insertion force 50 grams
  typical extraction force 30 grams
- Ultra-low force MM#35 (02 suffix) typical insertion force 25 grams
  typical extraction force 15 grams
- "Ultra lite" MM#43 (03 suffix) typical insertion force 12.5 grams
  typical extraction force 7.5 grams
- Mechanical life: 100 cycles min.

Electrical & Environmental Data
- See general specifications on page 264.

DIMENSIONS OF PGA SOCKET INSULATORS



DIMENSIONS **A, B,** and **C** can be calculated as follows:

N1 = GRID SIZE (# of pins per side, outer most row only for interstitial patterns)

N2 = WINDOW SIZE

A = N1 X 2,54

B = (N1-1) X 2,54

C = (N2 X 2,54) - 0,41

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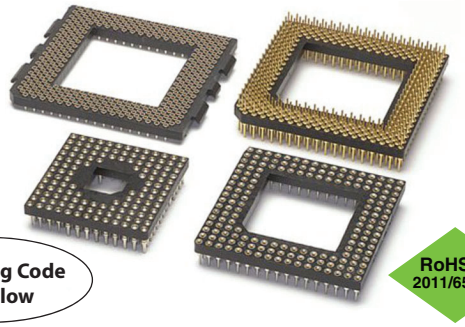
PIN GRID ARRAY SOCKETS

SERIES 510,511,513,514,515,518,522,523 • 2,54 AND INTERSTITIAL GRID • SURFACE MOUNT, THROUGH-HOLE AND WIREWRAP

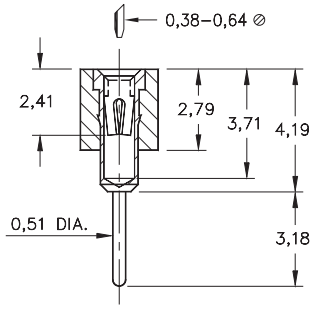
- Series 510, 511, 514, 515, 522 and 523 PGA sockets are available on 2,54 centers
- Series 513 and 518 PGA sockets are available for Interstitial patterns
- Choice of three low force clips to cover all applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details



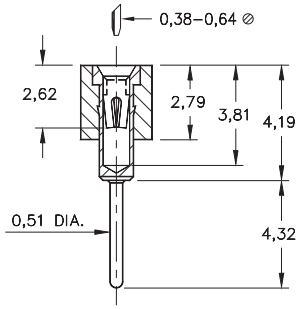
XX=Plating Code See Below

RoHS-2 2011/65/EU

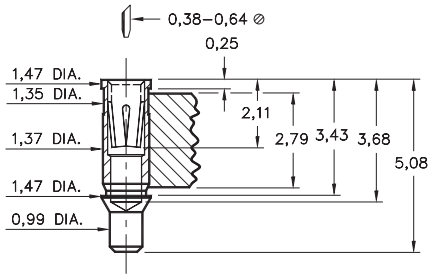
SERIES 510 (Standard Solder Tail)



SERIES 511 (Long Solder Tail)

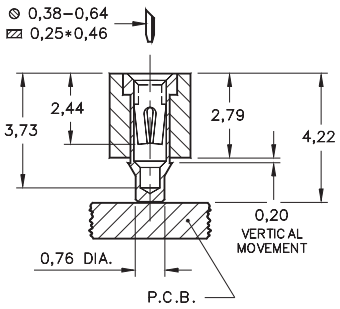


SERIES 513 (SMT Receptacle)

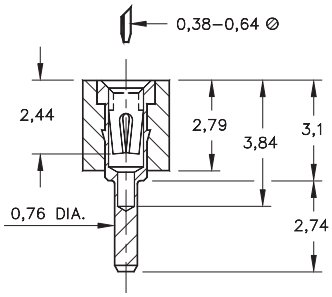


Interstitial Patterns Only

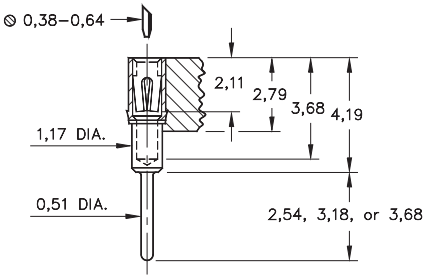
SERIES 514 (SMT Receptacle)



SERIES 515 (Low Profile Solder Tail)

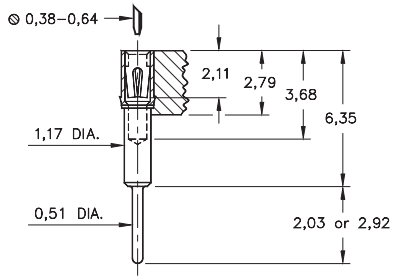


SERIES 518 (Solder Tail No, Heatsink Tabs)



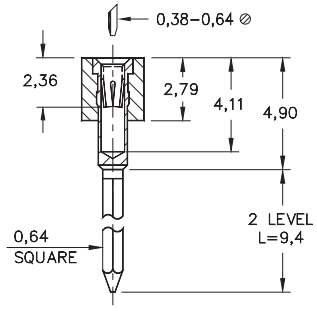
Interstitial Patterns Only

SERIES 518 (Solder Tail w/ Heatsink Tabs)

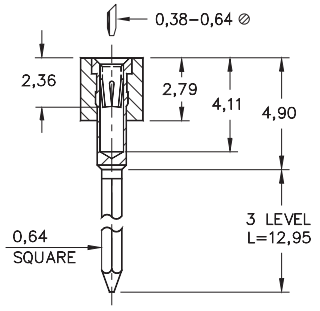


Interstitial Patterns Only

SERIES 522 (2 Level Wrapost)



SERIES 523 (3 Level Wrapost)



Visit www.mill-max.com/pga to configure a formal part number

SPECIFY PLATING CODE XX=	13 ◆	91	93	99		43 ◆	
Sleeve (Pin)	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn/Pb	5,08µm Sn/Pb		5,08µm Sn	
Contact (Clip)	0,76µm Au	0,25µm Au	0,76µm Au	2,54µm Sn/Pb		0,76µm Au	

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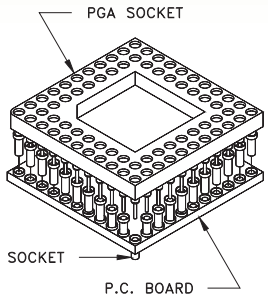
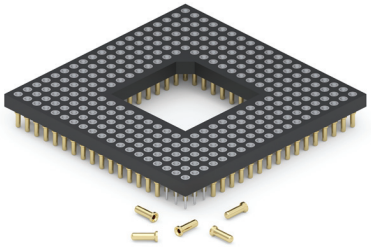
PIN GRID ARRAY SOCKETS

SERIES 605, 614 • 2,54 AND INTERSTITIAL GRID • CARRIER TYPE

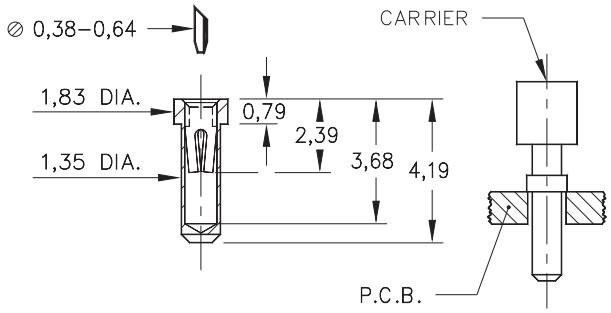
- Series 614 & 605 PGA carrier sockets offer 4 receptacle styles
- Many combinations of receptacles and clips to cover all applications
- Carrier sockets provide a convenient way of loading groups of receptacles onto a PC board
- Removeable insulator makes carriers ideal for low profile applications
- High temperature PCT polyester insulator material suitable for all forms of soldering including lead-free
- For Electrical, Mechanical and Environmental Data, see page 137 for details

APPLICATION OF PGA SOCKET CARRIERS



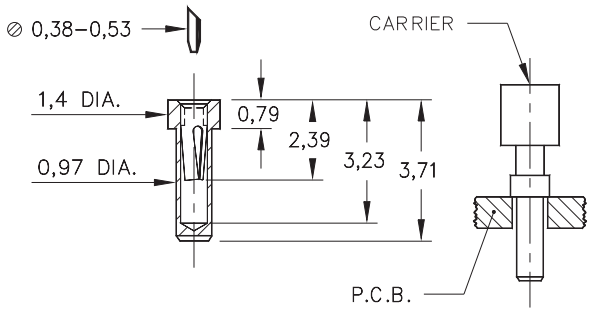


SERIES 614...001, 002, 003
LOW PROFILE SOCKET

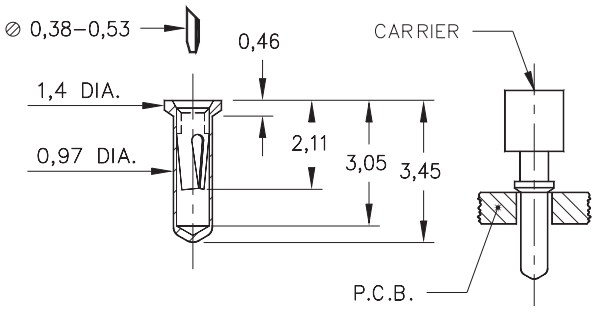


For .100" Grid Only

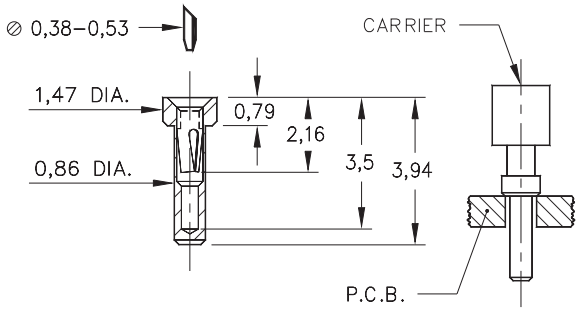
SERIES 614...007
MINIATURE SOCKET



SERIES 614...012
LOWEST PROFILE SOCKET



SERIES 605...048
REDUCED BARREL SOCKET



XX=Plating Code See Below

RoHS-2 2011/65/EU

Visit www.mill-max.com/pga to configure a formal part number

SPECIFY PLATING CODE XX=	13 ◆		93			43 ◆	
Sleeve (Pin)	0,25µm Au		5,08µm Sn/Pb			5,08µm Sn	
Contact (Clip)	0,76µm Au		0,76µm Au			0,76µm Au	

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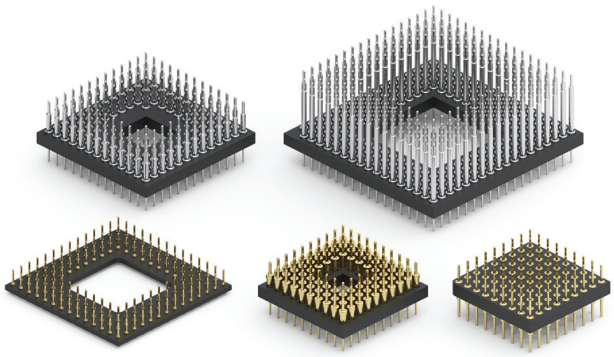
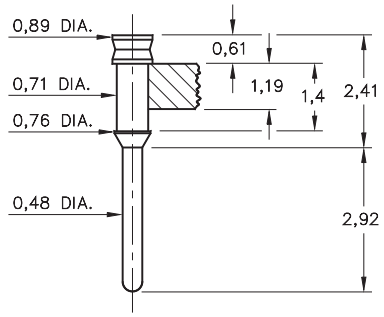
PIN GRID ARRAY HEADERS

SERIES 507, 550, 551, 599 • 2,54 AND INTERSTITIAL GRID • SURFACE MOUNT AND THROUGH-HOLE

- Series 551 and 599 headers are available on 2,54 centers
- Series 507 and 550 PGA headers are available for interstitial patterns and designed for SMT adapter applications
- Series 550 and 551 are through-hole mount for adapter & board stacking applications
- Series 550 and 551 use High temperature PCT polyester insulator material suitable for all forms of soldering
- Series 507 and 599 use FR-4 epoxy insulator material
- For Electrical, Mechanical and Environmental Data, see page 137 for details

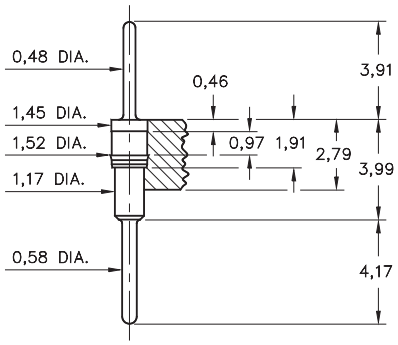


SERIES 507
SMT HEADER PIN TYPE #0737



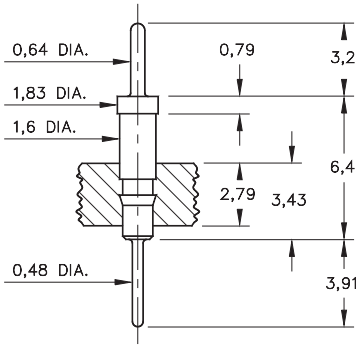
Interstitial Patterns Only

SERIES 550
HEADER PIN TYPE #5012

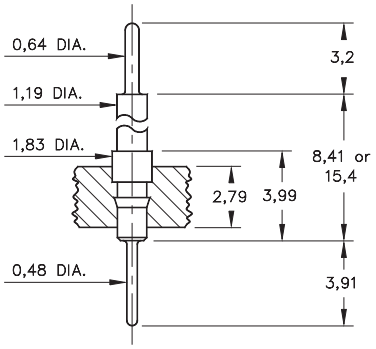


Interstitial Patterns Only

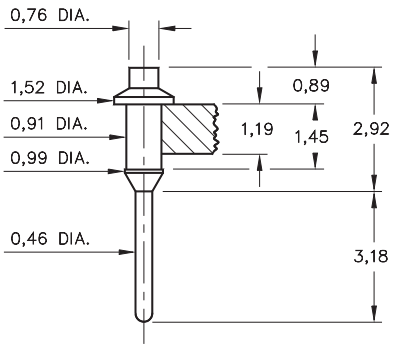
SERIES 551
HEADER PIN TYPE #5503



SERIES 551
HEADER PIN TYPE #5504 & #5505



SERIES 599
SMT HEADER PIN TYPE #9976



XX=Plating Code See Below

RoHS-2 2011/65/EU

Visit www.mill-max.com/pga to configure a formal part number	SPECIFY PLATING CODE XX =	10 ◆	90	40 ◆	
	Pin Plating	0,25µm Au	5,08µm Sn/Pb	5,08µm Sn	

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SERIES 540, 579, 582, 587, 599, 940
BGA AND PLCC SPECIFICATIONS

TECHNICAL SPECIFICATIONS FOR BGA ADAPTER SYSTEM

Materials:

- Socket contact: Three finger, stamped beryllium copper alloy 172, HT (Mill-Max type #04 or #05); plated 0,25µm gold over 1,27µm nickel.
- Socket shell and adapter pins: Precision machined brass alloy; plated 0,25µm gold over 2,54µm nickel.
- Insulator material: 1,19 or 1,57 thick glass-epoxy type FR-4, rated UL94V-0. TCE = 10-13ppm/°C, $\varepsilon_r = 5.0$

Mechanical:

- Insertion and withdrawal forces (using 0,25 dia. polished steel gage pin): Insertion: .36N typ. per pin
  Withdrawal: .20N typ. per pin
- Insertion force of an actual 225 pin device: 90N
- Durability: 100 cycles
- Coplanarity: less than or equal to 0,13

Electrical:

- Current rating (per pin): 1A
- Working voltage: 100 VRMS/150 VDC max.
- Low level contact resistance: 10 mΩ max.
- Insulation resistance @ 500 VRMS: Initial value: 1,000,000 MΩ min.
  After climatic tests: 10,000 MΩ min.
- Dielectric withstanding voltage: 500 VRMS
- Capacitance between adjacent contacts: 1 pF max.
- Self inductance per pin: 2 nH max.
- Electrical length: 31 pS

Environmental:

- Operating temperature range: -55 °C to +125 °C
  BGA adapter/socket systems have withstood the following environmental tests without mechanical or electrical failure:
- Damp heat, steady state: 40 °C, 93% rH, 21 days
- Damp heat, cyclic: 25/55 °C, 6 days
- Dry heat: 100°C, 1,000 hours
- Thermal shock: -55 to +125 °C, 5 cycles
- Random vibration: 50 to 500 Hz, 8g, 20 min. per axis
- Shock: 50 g per axis
- Solderability: 235 °C, 2 seconds
- Resistance to soldering heat: 270 °C, 10 seconds
- Resistance to corrosion:
- Salt spray: 48 hours
- Sulphur dioxide: 96 hours @ 25 ppm SO_2, 25 °C, 75% rH
- Hydrogen sulphide: 96 hours @ 12 ppm H_2S, 25°C, 75% rH

TECHNICAL SPECIFICATIONS FOR 540 SERIES PLCC SOCKETS

Materials:

- Insulator: Glass filled thermoplastic, self-extinguishing rated, UL94V-0, color black.
- Contact: Plated copper alloy overall nickel underplating, tin finish.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 50 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
  Through-hole types: 2A
- Contact resistance: 20 mΩ max.
- Insulation resistance: 5,000 MΩ min.
- Dielectric strength: 600 VRMS
- Capacitance: 2pF max.

Environmental Data:

- Operating temperature: -55/+125 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

TECHNICAL SPECIFICATIONS FOR 940 SERIES PLCC SOCKETS

Materials:

- Insulator: PPS Polyphenylene Sulfide, Rated UL94V-0.
- Contact: Phosphor Bronze with a tin finish and nickel underplate.

Mechanical Data:

- Contact pressure (per contact): 150 grams min.
- Mechanical data (cycles): 25 cycles min.

Electrical Data:

- Rated current: SMD types: 1A
  Through-hole types: 1A
- Contact resistance: 30 mΩ max.
- Insulation resistance: 10,000 MΩ min.
- Dielectric strength: 600 VAC
- Capacitance: 1pF max.

Environmental Data:

- Operating temperature: -55/+105 °C
- Vibration (No electrical discontinuity greater than 1µs): 10-2000 HZ, 15 g
- Climactic category (EIA): 365-17A

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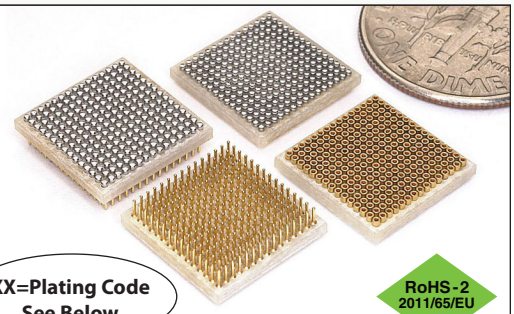
BALL GRID ARRAYS

SERIES 540,579,582,587,599 • FOR 0,8mm GRID, 1mm GRID & 1,27mm GRID • MALE PIN ADAPTERS AND FEMALE SOCKETS

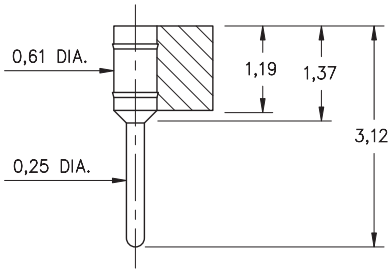
- BGA adapter/socket systems are a reliable way to make BGAs pluggable. They may also be used as a high density board-to-board interconnect
- The BGA device for a 0,8mm or 1mm grid is soldered to a 9929 adapter (or a 7929 adapter is soldered to a PCB), then either one can be plugged into a 9953 (0.8mm grid) or 9928 (1mm grid) surface mount socket
- The BGA device for a 1,27mm grid is soldered to a 8737/4048 adapter (or a 4098/4054 adapter is soldered to a PCB), then either one can be plugged into a 8214 surface mount socket
- Both socket and adapter have the same footprint as the BGA device
- Insertion force is .4N per pin for standard pins 7929/9929, 8737/4098. Tapered EZ-IN pins 4048/4054 reduce insertion force to only .08N, and are recommended for pin counts greater than 500
- Insulator material is FR-4 epoxy having a TCE to match the BGA device and circuit board
- For Electrical, Mechanical and Environmental Data, see page 141 for details



XX=Plating Code See Below

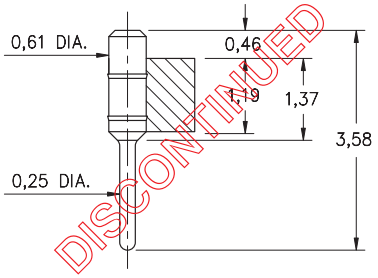
RoHS-2 2011/65/EU

SERIES 599...429
BGA MOUNT TYPE #9929



For 0,8mm & 1mm Grid Only

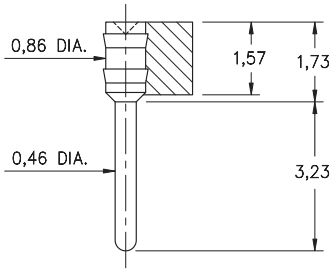
SERIES 579...429
PCB MOUNT TYPE #7929



DISCONTINUED

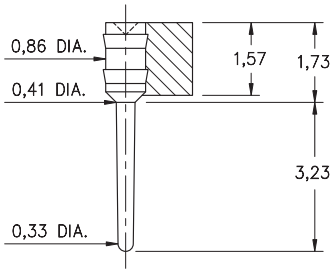
For 0,8mm & 1mm Grid Only

SERIES 587...437
BGA MOUNT TYPE #8737



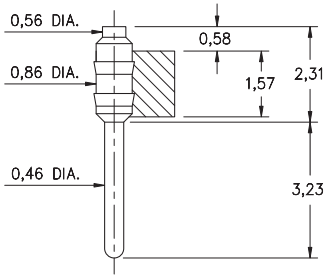
For 1,27 Grid Only

SERIES 540...448
EZ-IN BGA MOUNT TYPE #4048



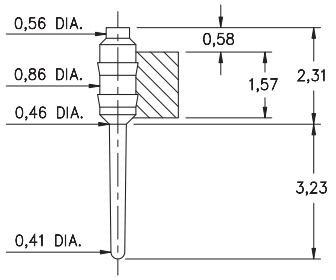
For 1,27 Grid Only

SERIES 540...498
STANDARD PCB MOUNT TYPE #4098



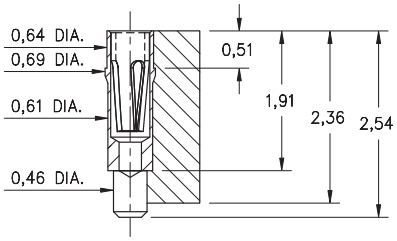
For 1,27 Grid Only

SERIES 540...454
EZ-IN PCB MOUNT TYPE #4054



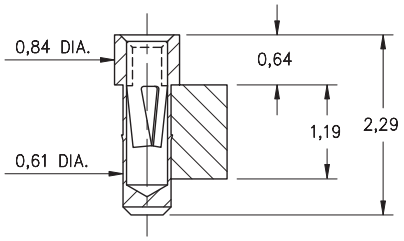
For 1,27 Grid Only

SERIES 599...453
SURFACE MOUNT TYPE #9953



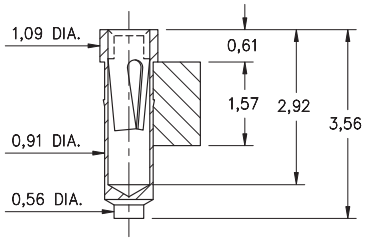
For 0,8mm Grid Only

SERIES 599...428
SURFACE MOUNT TYPE #9928



For 1mm Grid Only

SERIES 582...414
SURFACE MOUNT TYPE #8214



For 1,27 Grid Only

Visit www.mill-max.com/bga to configure a formal part number

SPECIFY PLATING CODE XX =	11 ◆	SPECIFY PLATING CODE XX =	10 ◆
Sleeve (Pin)	0,25µm Au	Pin Plating	0,25µm Au
Contact (Clip)	0,25µm Au		

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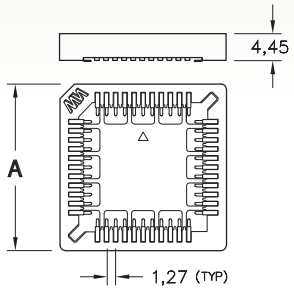
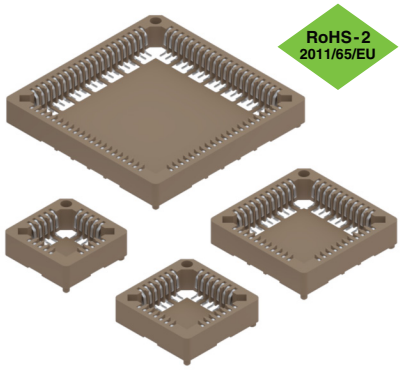
STANDARD PLCC SOCKETS

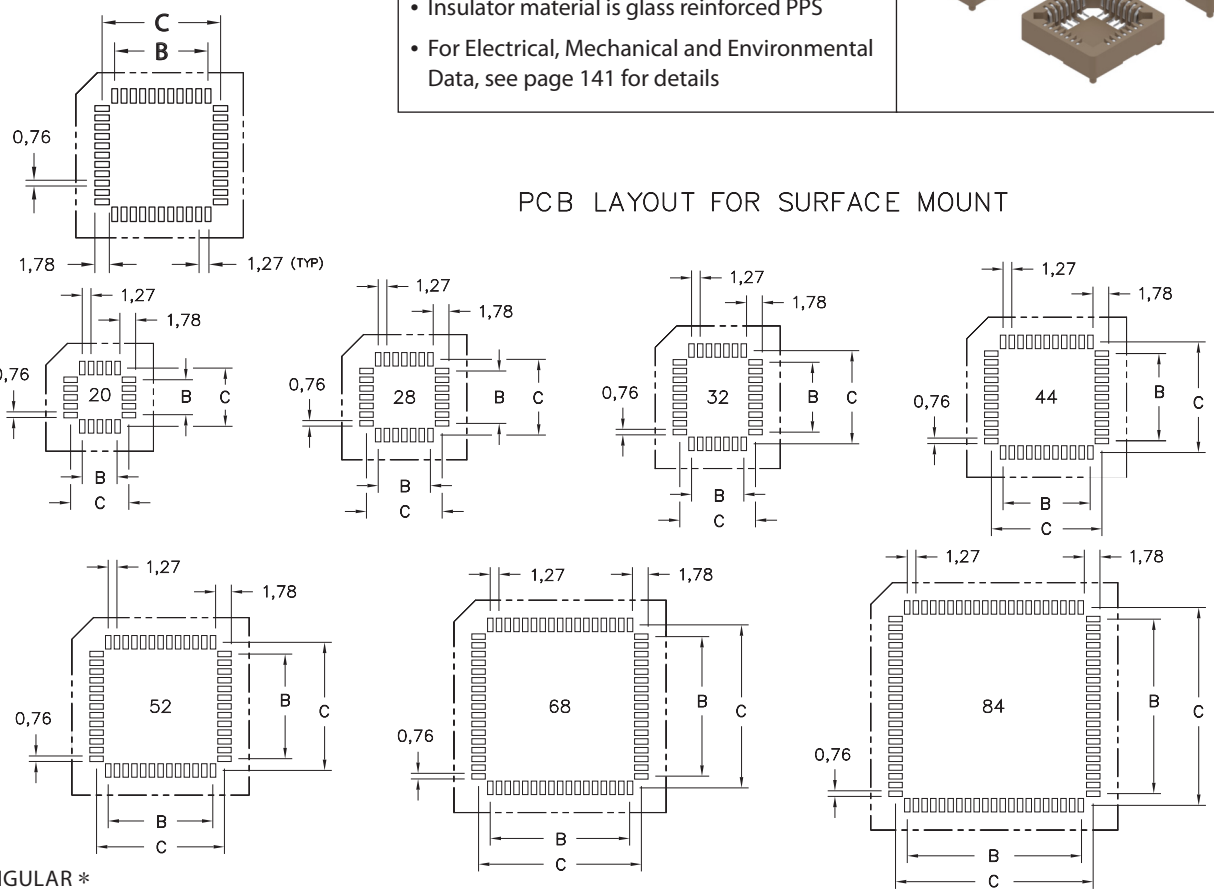
SERIES 940 • SURFACE MOUNT



- Note: Not end stackable
- Accepts JEDEC PLCCs MO-047 and MO-052
- Low profile for high density PC board stacking
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81µm tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



RECTANGULAR *

Number of Contacts	Ordering Information	- A -	- B -	- C -	Qty. per Tube	Qty. per Reel
20	940-44-020-17-40000X	15,57	5,08	8,48	32	470
28	940-44-028-17-40000X	18,11	7,62	11,02	27	390
32 *	940-44-032-17-40000X *	20,6 / 18,1	10,2 / 7,62	13,6 / 11,0	24	390
44	940-44-044-17-40000X	22,86	12,7	16,10	21	250
52	940-44-052-17-40000**4** (Only)	25,73	15,24	18,64	19	250
68	940-44-068-17-40000X	30,81	20,32	23,72	16	220
84	940-44-084-17-40000X	35,89	25,4	28,80	14	200

Packaging Codes: X = 0 (Tubes), X = 4 (Tape & Reel)

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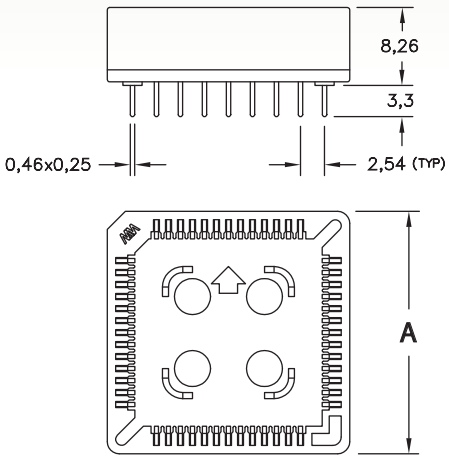
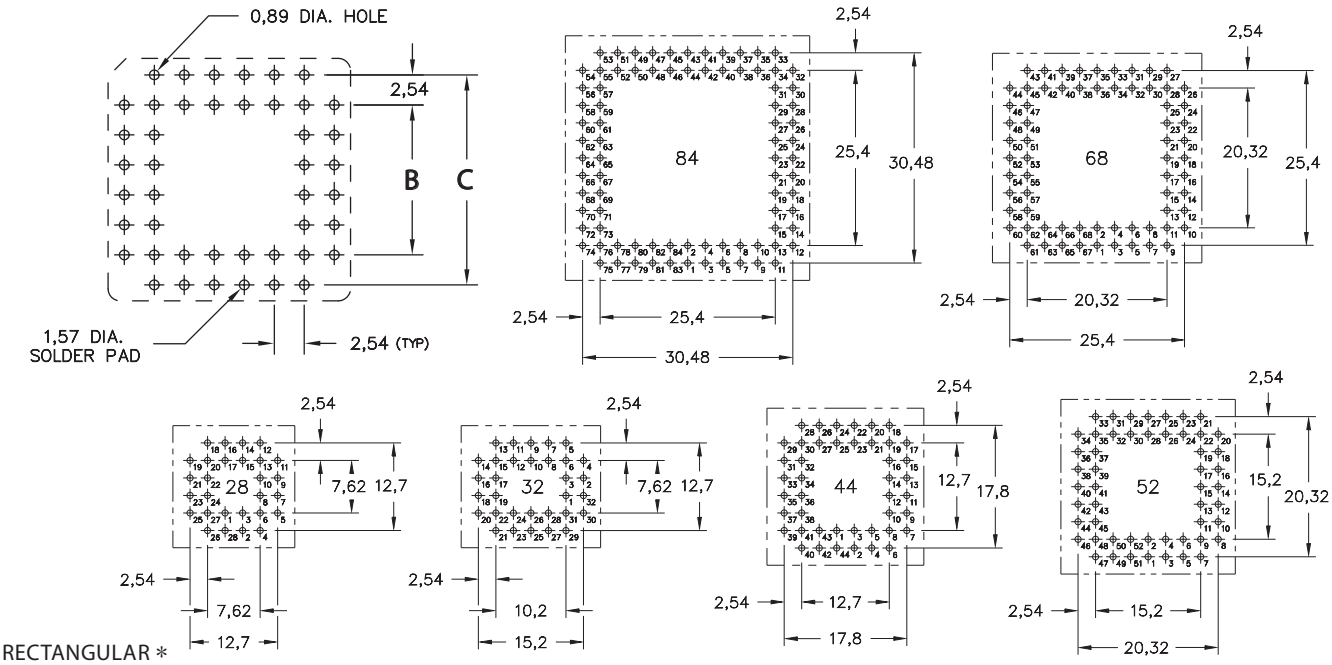
STANDARD PLCC SOCKETS

SERIES 940 • THROUGH-BOARD MOUNT



- Note: Not end stackable
- Accepts JEDEC PLCCs MS-016 & MS-018 leaded plastic substrates
- Internal standoffs insure proper positioning of chip carrier in socket
- Standoffs provide clearance for heat dissipation and cleaning
- Contacts are plated with 3,81µm tin
- Insulator material is glass reinforced PPS
- For Electrical, Mechanical and Environmental Data, see page 141 for details

PRINTED CIRCUIT DRILLING PATTERNS
(TOP VIEW)
0,89 dia. min. mounting holes



Number of Contacts	Ordering Information	- A -	- B -	- C -	Quantity per Tube
20	940-44-020-24-000000	15,57	5,08	10,16	38
28	940-44-028-24-000000	18,11	7,62	12,7	33
32 *	940-44-032-24-000000 *	20,7 / 18,1	10,2 / 7,62	15,2 / 12,7	29
44	940-44-044-24-000000	23,19	12,7	17,8	26
52	940-44-052-24-000000	25,73	15,24	20,32	23
68	940-44-068-24-000000	30,99	20,32	25,4	19
84	940-44-084-24-000000	35,89	25,4	30,48	16
100	940-44-100-24-000000	40,72	30,48	35,56	25
	Plating Code 44 ◆ = 150 µ" Sn				

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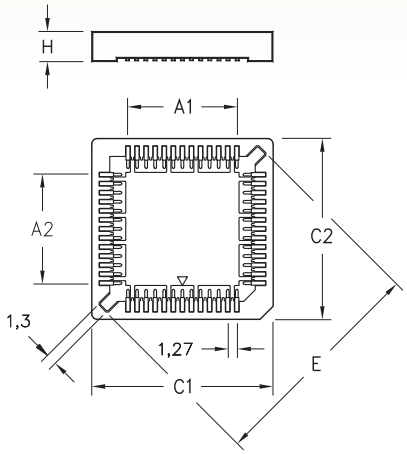
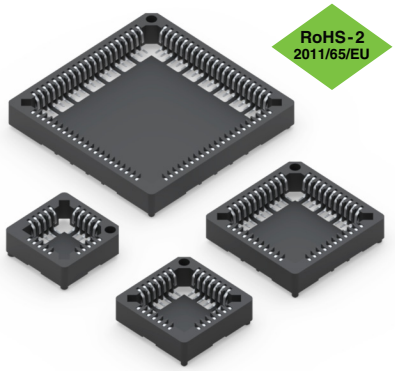
COMPACT PLCC SOCKETS

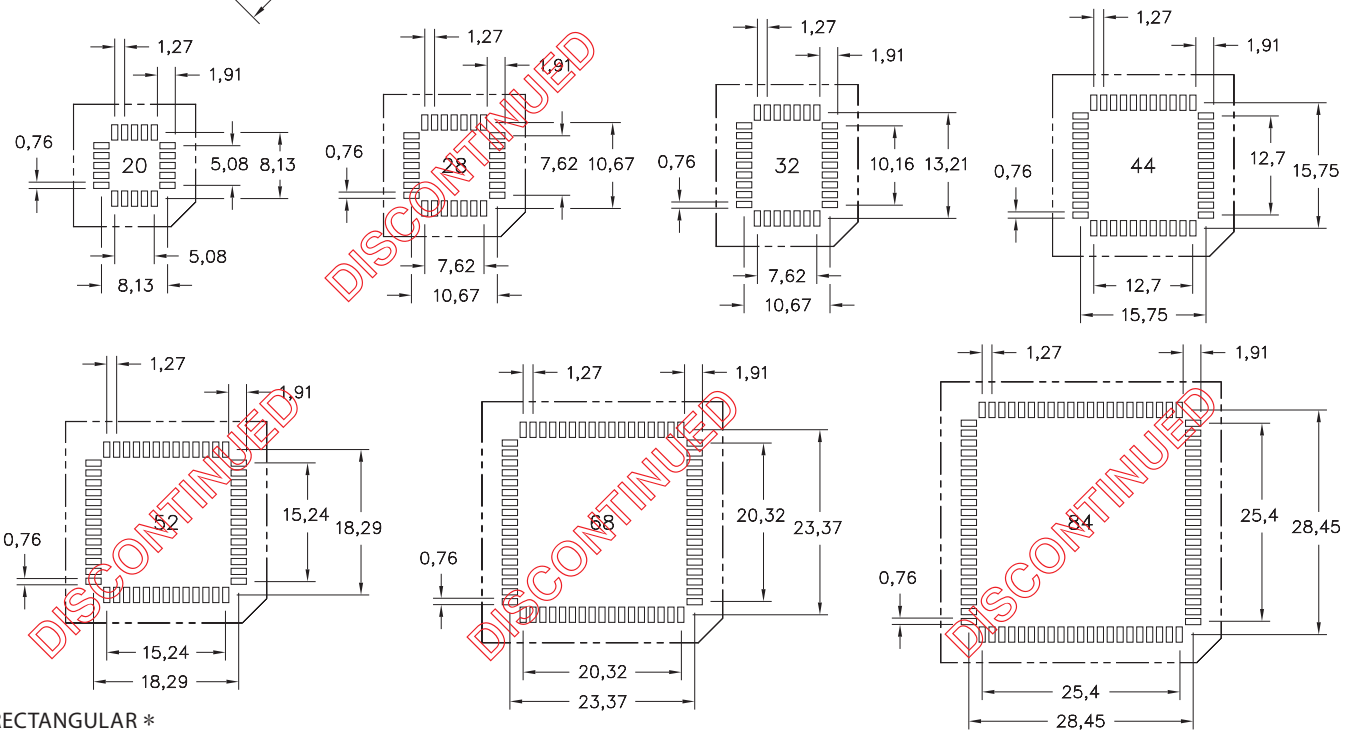
SERIES 540 • SURFACE MOUNT



- Note: Not end stackable
- Designed for JEDEC type devices
- Open frame design in solder area improves results of IR soldering and facilitates visual inspection of solder pads
- Contacts are plated with 3,81µm tin
- The insulator is molded PPS (Ryton R-4)
- For Electrical, Mechanical and Environmental Data, see page 141 for details



PCB LAYOUT FOR SURFACE MOUNT



RECTANGULAR *

Number of Contacts	Ordering Information	- A1 -	- A2 -	- C1 -	- C2 -	- E -	- H -	Qty. per Tube	Tape Width mm	Qty. per Reel
20	540-44-020-17-40000X	5,08	5,08	14,86	14,86	16,69	4,57	34	24	490
28	540-44-028-17-40000X	7,62	7,62	17,4	17,4	20,29	4,57	29	32	400
32 *	540-44-032-17-40000X *	7,62	10,16	17,02	19,56	22,48	3,76	26	32	400
44	540-44-044-17-40000X	12,7	12,7	22,48	22,48	27,48	4,57	22	44	250
52	540-44-052-17-40000X	15,24	15,24	25,4	25,4	30,09	4,57	20	44	250
68	540-44-068-17-40000X	20,32	20,32	30,53	30,53	38,28	4,57	16	44	220
84	540-44-084-17-40000X	25,4	25,4	35,56	35,56	45,49	4,57	14	56	200

Packaging Codes: X = 0 (Tubes), X = 4 (Tape & Reel)