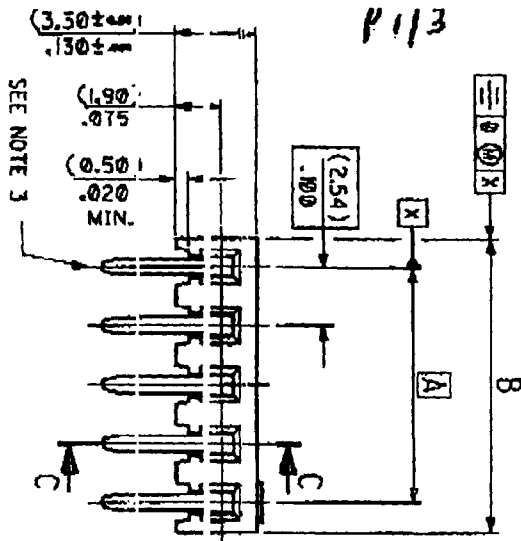
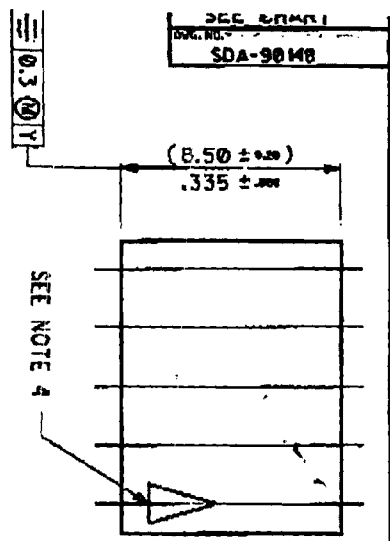
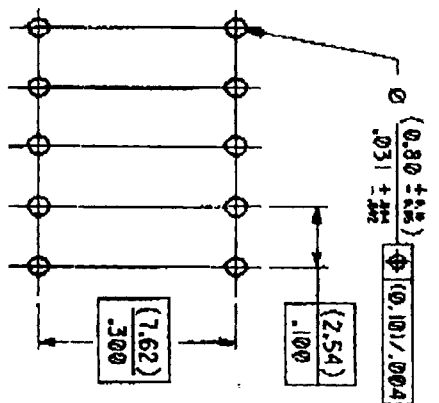


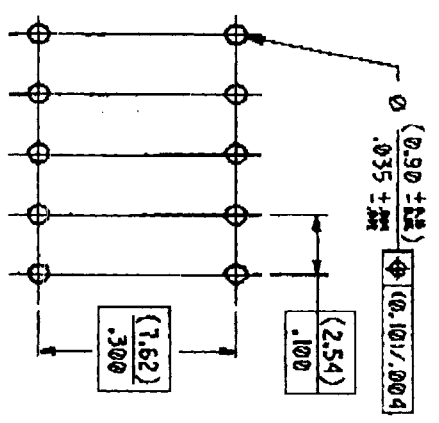


NOTES

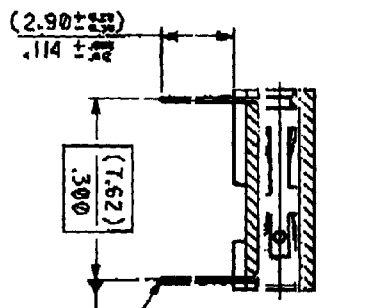
- 1) CONTACT-PLATED PHOSPHOR BRONZE.
- 2) HOUSING-15% GLASS FILLED POLYESTER. COLOUR-BLACK, ALSO NYLON 46 COLOUR (SEE SHEET 2 FOR OPTIONS). SEE SHEET 2 FOR EACH OPTION.
- 3) COMPATIBLE WITH PCB HOLE PATTERN.
- 4) THIS MARK INDICATES CONTACT NUMBER 1.
- 5) FOR 10.635/.025 SO MATE PINS THE LENGTH MUST BE 15.65/.222 MIN & 17.00/.216 MAX. TO ENSURE GOOD CONNECTION WITH CONTACT.
- 6) SEE SHEET 3 FOR POLARISATION OPTIONS



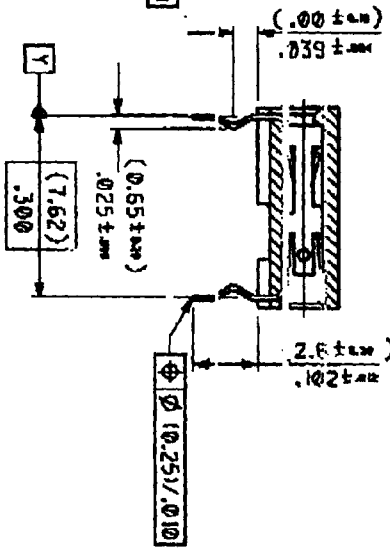
RECOMMENDED P.C. BOARD HOLE PATTERN FOR STRAIGHT PINS



RECOMMENDED P.C. BOARD HOLE PATTERN FOR KINKED PINS - RECOMMENDED BOARD THICKNESS 1.20 - 1.70 / .031 - .067



SECTION C-C SHOWING STRAIGHT PINS



SECTION C-C SHOWING KINKED PINS

FOR PREVIOUS DRAWING ISSUES SEE MRL.

ADD COT NOTIFICATION	REVISED
ECH 031007	95.0327 MON

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PART NO. STRAIGHT PINS POLYESTER	PART NO. KINKED PINS POLYESTER	PART NO. STRAIGHT PINS NYLON 46	NO. OF CKTS.	DIM. A	DIM. B (+1.12) -1.00	ND. PER TUBE
90148-1X02	90148-2X02	90148-4X02	2	(2.54) .100	(5.08) .200	95
03	03	03	3	(5.08) .200	(7.62) .300	64
04	04	04	4	(7.62) .300	(10.16) .400	48
05	05	05	5	(10.16) .400	(12.70) .500	36
06	06	06	6	(12.70) .500	(15.24) .600	30
07	07	07	7	(15.24) .600	(17.78) .700	27
08	08	08	8	(17.78) .700	(20.32) .800	24
09	09	09	9	(20.32) .800	(22.86) .900	21
10	10	10	10	(22.86) .900	(25.40) 1.000	18
11	11	11	11	(25.40) 1.000	(27.94) 1.100	16
12	12	12	12	(27.94) 1.100	(30.48) 1.200	16
13	13	13	13	(30.48) 1.200	(33.02) 1.300	14
14	14	14	14	(33.02) 1.300	(35.56) 1.400	14
15	15	15	15	(35.56) 1.400	(38.10) 1.500	12
16	16	16	16	(38.10) 1.500	(40.64) 1.600	12
17	17	17	17	(40.64) 1.600	(43.18) 1.700	11
18	18	18	18	(43.18) 1.700	(45.72) 1.800	10
19	19	19	19	(45.72) 1.800	(48.26) 1.900	10
20	20	20	20	(48.26) 1.900	(50.80) 2.000	9
21	21	21	21	(50.80) 2.000	(53.34) 2.100	9
22	22	22	22	(53.34) 2.100	(55.88) 2.200	8
23	23	23	23	(55.88) 2.200	(58.42) 2.300	8
24	24	24	24	(58.42) 2.300	(60.96) 2.400	7
25	25	25	25	(60.96) 2.400	(63.50) 2.500	7
26	26	26	26	(63.50) 2.500	(66.04) 2.600	7
27	27	27	27	(66.04) 2.600	(68.58) 2.700	7
28	28	28	28	(68.58) 2.700	(71.12) 2.800	7
29	29	29	29	(71.12) 2.800	(73.66) 2.900	6
30	30	30	30	(73.66) 2.900	(76.20) 3.000	6
31	31	31	31	(76.20) 3.000	(78.74) 3.100	6
90148-1X32	90148-2X32	90148-4X32	32	(78.74) 3.100	(81.28) 3.200	6

PLATING VERSION A
PRE-PLATED HOT DIP TIN LEAD (60/40)
1.0 TO 2.5 microns (.00004" TO .00010")

PLATING VERSION E

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, 0.38 TO 0.64 microns (.00005" TO .00025")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN LEAD
(60/40) ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F.

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, 0.76 TO 1.0 microns (.00003" TO .00004")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN LEAD
(60/40) ON SOLDER TAILS (OVER NICKEL).

90148-XXYY

INDICATED NO. OF CIRCUITS.

PLATING CODE.

1 = VERSION A.

2 = VERSION E.

3 = VERSION F.

- 1 = STRAIGHT PINS POLYESTER, COLOUR-BLACK
- 2 = KINKED PINS POLYESTER-BLACK
- 3 = POLARISED STRAIGHT PINS POLYESTER-BLACK
- 4 = STRAIGHT PINS NYLON 46 -NATURAL

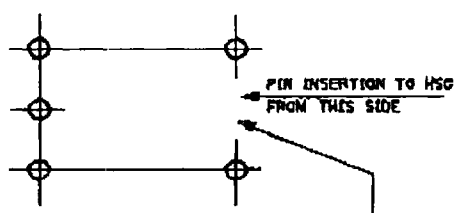
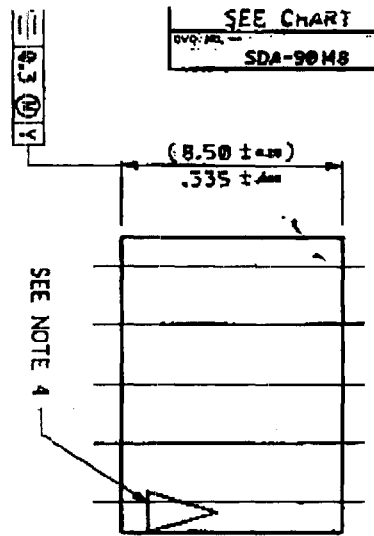
STANDARD PRODUCTS

FOR PREVIOUS
DRAWING ISSUES
SEE MR.

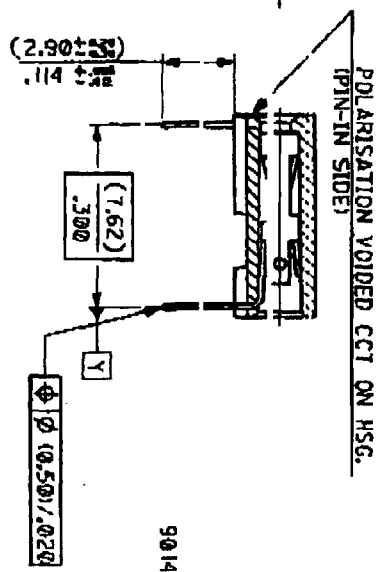
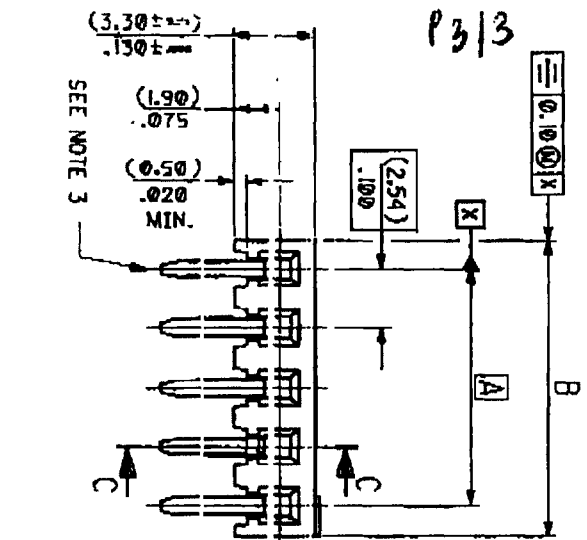
SEE SHEET 1.

DIMENSIONS SHOWN (ACTUAL) SIZE UNLESS OTHERWISE SPECIFIED TOLERANCES IN MILLIMETERS		DIMENSIONS SHOWN (ACTUAL) SIZE UNLESS OTHERWISE SPECIFIED TOLERANCES IN INCHES	
FRONT VIEW	TOP VIEW	FRONT VIEW	TOP VIEW
PART NO. 90148-1X02 SEE CHART		PART NO. 90148-1X02 SEE CHART	
C-GRID III SINGLE ROW HORIZONTAL P.C. BOARD CONNECTOR		C-GRID III SINGLE ROW HORIZONTAL P.C. BOARD CONNECTOR	
MOLEX EUROPE 20F 14/ 7/87		MOLEX EUROPE 20F 14/ 7/87	

SEE CHART
SDA-90 M8



RECOMMENDED P.C. BOARD HOLE
PATTERN FOR STRAIGHT PINS
WITH POLARISATION



PLATING VERSION A

PRE-PLATED HOT DIP TIN LEAD (50/40)
1.0 TO 2.5 microns (.00004" TO .00010")

PLATING VERSION E

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, .038 TO .064 microns (.000015" TO .000025")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN LEAD
(50/40) ON SOLDER TAILS (OVER NICKEL).

PLATING VERSION F

1.27 TO 1.78 microns (.00005" TO .00007") NICKEL
OVERALL, .076 TO 1.0 microns (.00003" TO .00004")
GOLD ON CONTACT AREA (OVER NICKEL).
3 TO 5 microns (.00012" TO .00020") TIN LEAD
(50/40) ON SOLDER TAILS (OVER NICKEL).

90148-XXYY
OPTION NUMBER
(NOT RELATING TO CCT SIZE OR OTHERWISE)
3 = NON-STANDARD OPTIONS
PLATING CODE:
1 = VERSION A,
2 = VERSION E,
3 = VERSION F.

NOTES:
(SEE SHEET 1 FOR ALL UNSPECIFIED NOTES)
THIS PART OPTION NOT FOR STACKING PURPOSES
SHOWING STRAIGHT PINS

PART NO.	QTY.	NO. OF	ITEM A	DIM. B	NO. PER
POLARISED	15410M	UNITS		(.125)	TUBE
PINS	2	3	(5.08) .200	(7.62) .300	64

FOR PREVIOUS
DRAWING ISSUES
SEE MRL.

SEE SHEET 1.

REVISIONS	
Y	SEE SHEET 1.
LTR	
DESIGN	
ENGINEER	
DATE	
SCALE	5:1

REVISE ONLY ON CAD SYSTEM	
TITLE	
C-GRID 111 SINGLE ROW HORIZONTAL P.C. BOARD CONNECTOR (POLARISED)	
MOLEX EUROPE	
SEE CHART	DATE 92/10/29
SDA-90148	SHEET NO. 1 OF 1
B	SIZE