

DESCRIPTION	"A"
MP2-HS030-5X	11.95mm
MP2-HS060-5X	23.95mm
MP2-HS090-5X	35.95mm
MP2-HS120-5X	47.95mm
MP2-HS150-5X	59.95mm
MP2-HS180-5X	71.95mm
MP2-HS210-5X	83.95mm
MP2-HS240-5X	95.95mm

REAR PLUG UP MATE LENGTHS

METPAK 2 SHROUD	METPAK 2 HEADER	PRINTED CIRCUIT BOARD THICKNESS
MP2-HSXXX-51	MP2-HXXX-5XP5-XXXX	1.8mm (0.071) 2.4mm (0.094) 3.2mm (0.126) 4.0mm (0.157) 4.8mm (0.190) 5.6mm (0.221) 6.4mm (0.252)
MP2-HSXXX-52	MP2-HXXX-5XP7-XXXX	7.70mm (0.303) 6.90mm (0.272) 6.10mm (0.240) 5.30mm (0.209) 4.50mm (0.177)
MP2-HSXXX-53	MP2-HXXX-5XP5-XXXX	7.60mm (0.299) 6.80mm (0.268) 6.00mm (0.237) 5.20mm (0.206) 4.40mm (0.175)
	MP2-HXXX-5XP7-XXXX	5.10mm (0.201) 7.00mm (0.276) 7.00mm (0.276) 7.00mm (0.276) 7.00mm (0.276)
	MP2-HXXX-5XP7-XXXX	7.70mm (0.303) 6.90mm (0.272) 6.10mm (0.240) 5.30mm (0.209) 4.50mm (0.177)

MP2 — HS XXX — 5 X

METPAK 2 Series

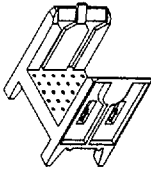
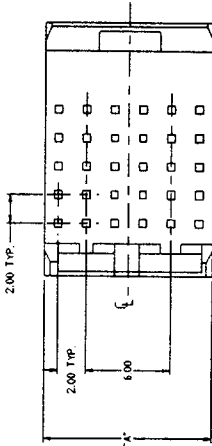
Header Shroud

Number of Positions

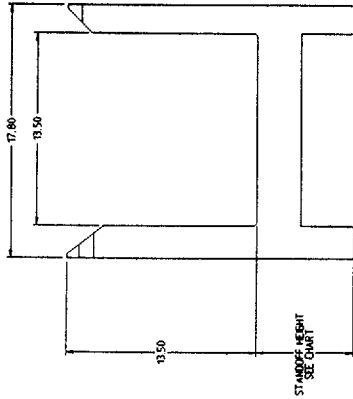
- 030 (5 x 6)
- 060 (5 x 12)
- 090 (5 x 18)
- 120 (5 x 24)
- 150 (5 x 30)
- 180 (5 x 36)
- 210 (5 x 42)
- 240 (5 x 48)

5 = 5 Row Grid

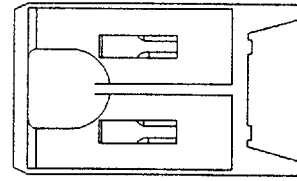
- Standoff Height
- 1 = 3.50mm
- 2 = 4.40mm
- 3 = 6.90mm



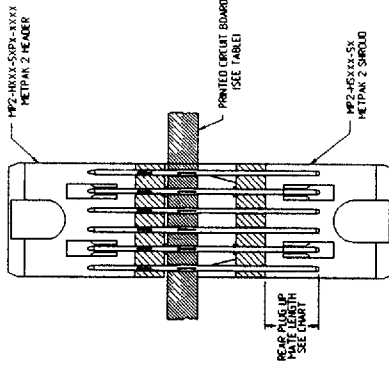
ISO VIEW



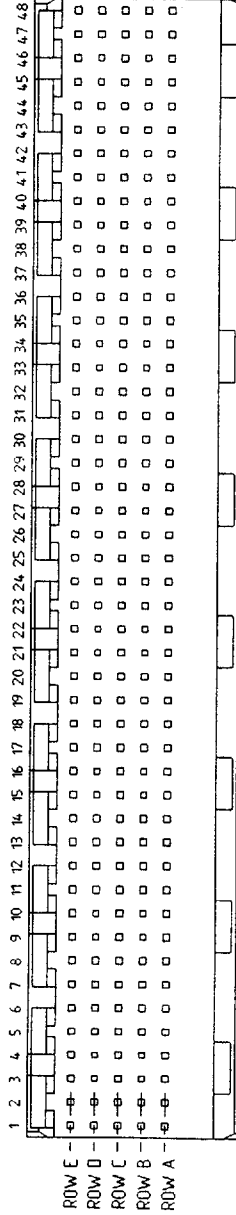
STANDOFF HEIGHT SEE CHART



CUSTOMER DRAWING
SHEET 1 OF 1
ALL DIMENSIONS
IN MILLIMETERS



POSITIONS



Notes:

1. This connector is designed to comply with IEC 1076-4-001, 48B and EIA/SP-3179 2mm 2-pair connectors
2. Mating Products: Shrouds are placed on terminals for rear plug METPAK 2 headers: MP2-HXXX-5XPX-XX

Note: Application tooling required for shroud installation (contact factory).

**Robinson
Nugent**


812/945-0211
812/945-0805 FAX

METPAK 2™ MP2-HSXXX-5X
(Backpanel Shroud, 5-Row Grid)

MATERIALS

Housing:	High temperature, 30% glass-filled, liquid crystal polymer	Plating: TR =	10 μ inch ROBEX® [7 μ inch (.178 μ m) minimum Palladium Nickel with 3 μ inch (.076 μ m) minimum Gold flash on contact area. 100 μ inch (2.54 μ m) minimum Tin/Lead on terminal area.
Contacts:	Standard Header - Phosphor Bronze Inverse Header - Copper Alloy Socket - Beryllium Copper	TR30 =	30 μ inch ROBEX® [27 μ inch (.686 μ m) minimum Palladium Nickel with 3 μ inch (.076 μ m) minimum Gold flash on contact area. 100 μ inch (2.54 μ m) minimum Tin/Lead on terminal area.
Packaging:	Anti-static PVC tubes		
Flammability:	UL 94V-0		All options include an underplate of 50 μ inch (1.27 μ m) minimum Nickel.

MECHANICAL

Insertion Force: (average/contact)	33 grams	Power Contact	110 grams	Agency Approvals  #73746
Withdrawal Force: (minimum/contact)	20 grams		30 grams	
Normal Force: (average/beam)	70 grams		100 grams	
Durability: TR Plating:	500 cycles		500 cycles	
	TR30 Plating:	5000 cycles	5000 cycles	
	R30 Plating:	5000 cycles	5000 cycles	

ELECTRICAL

Current Rating: 3.0 Amps per signal socket/header contact*
6.50 Amps per power socket/header contact* at 70°C.

Insulation Resistance: 5000 megohms initial
1000 megohms after exposure
(Per signal/power socket/header module)

Dielectric Withstanding: 1500 Volts AC

Capacitance: Maximum 1 pF capacitive coupling between adjacent contacts per mated (socket & header assembled) signal module
Maximum 3 pF capacitive coupling between one line and all other surrounding lines grounded, per mated signal module

Inductance: Total inductance for adjacent contact pairs, all inductances in nH (4 row connector)

	Row A	Row B	Row C	Row D
Row A	14.1	15.6		
Row B		16.8	17.5	
Row C			18.9	19.2
Row D				20.9

Total inductance for a contact in the given row with all other surrounding contacts (grounded), in nH (4 row connector)

Row A	Row B	Row C	Row D
10.0	10.6	11.8	14.3

Propagation Delay:

Propagation delay in picoseconds (4-row connector)

Row A	Row B	Row C	Row D
159	171	191	221

Skew in picoseconds (4-row connector)

Row A-B	Row B-C	Row C-D
12	20	30

Resistance Per Row: (Signal Contacts)

Row	Resistance in milliohms
A	14
B	16
C	18
D	20
E	22

Single Line Crosstalk -

Near End:

Maximum 5% in any row or column combination per mated signal module

Single Line Crosstalk -

Far End:

Maximum 2.5% per mated signal module

Characteristic Impedance:

Minimum 50 ohms per mated signal module
Maximum 60 ohms per mated signal module when mounted in a 50 Ohm system and excited by a 1 nanosecond risetime step signal. Contacts are allocated in a 3 : 1 S : G ratio.

Note: Electrical performance data have been simulated with a SPICE model for the METPAK 2™ connector. *Current ratings are for benchmarking purposes only, specific current carrying capabilities are system design related. Detailed electrical, mechanical and environmental specifications are available upon request (See Page 251).