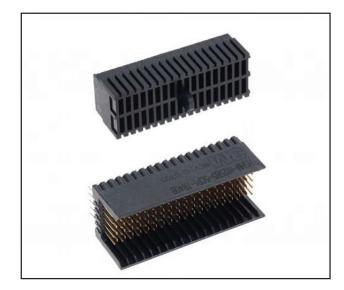
$3M^{TM}$ MetPak TM HSHM Press-Fit Header

2 mm Type B19, 95 Signal Contacts, 5 Rows, Straight



- Up to 5 Gb/s data rates
- Low crosstalk at high frequencies
- $50/100 \Omega$ (single-ended /differential) impedance
- Modular/scalable format IEC 61076-4-101
- 63 mated lines per linear inch
- End-to-end stackable with 5 row 3M[™] MetPak[™] CP2, HM and HSHM sockets
- Mates with 3M[™] MetPak[™] HSHM sockets
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: November 9, 2010

TS-2220-B Sheet 1 of 3

Physical

Insulation Material:High Temperature Thermoplastic (LCP)Flammability:UL 94V-0ContactMaterial:Copper AlloyPlating:See Ordering Information

Performance

Mechanical:

Normal Force (Nominal):	0.57 N [58 g] Signal, 0.74 N [75 g] Shield
Engagement Force (Nominal):	0.32 N [33 g] Signal, 0.22 N [22 g] Shield
Separation Force (Nominal):	0.20 N [20 g] Signal, 0.20 N [20 g] Shield
Wipe (Nominal, Shortest Contact):	2.67 mm [0.105 in] Signal, 1.57 mm [0.062 in] Shield
Mate/Unmate Cycles:	250
Application:	This module is not suitable for stand-alone use. (Refer to IEC-61076-4-101)
Electrical:	
Data Rate:	5 Gb/s
Characteristic Impedance:	50 Ω Single-ended, 100 Ω Differential
Current Rating (Fully Loaded):	1 A @ 70°C Signal
Insulation Resistance:	$10^4 \mathrm{M\Omega} @ 100 \mathrm{V_{DC}}$
Withstanding Voltage:	$750 \mathrm{V_{rms}}$

Environmental

Temperature Rating: -55° C to 125° C

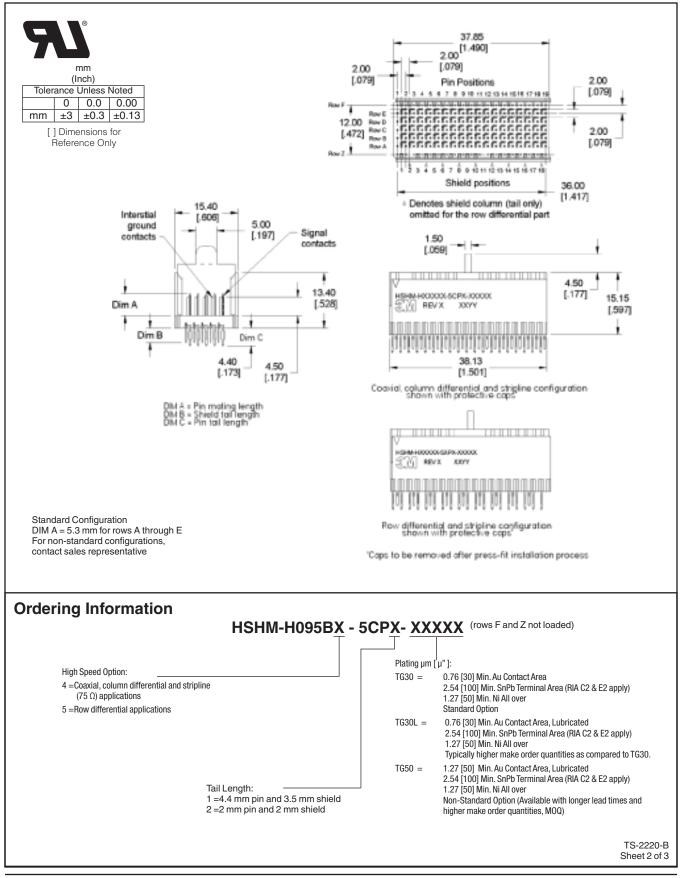
UL File No.: E68080

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$3M^{TM}$ MetPak TM HSHM Press-Fit Header

2 mm Type B19, 95 Signal Contacts, 5 Rows, Straight

HSHM Series



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$3M^{TM}$ MetPak TM HSHM Press-Fit Header

2 mm Type B19, 95 Signal Contacts, 5 Rows, Straight

1.00 [.039] 2.00 1.00 [.079] [.039] 16 2.00 15 [.079] 14 13 12 11 36.00 [1.417] 10 10 9 B Ø Dim D ⊕ Ø 0.10 ₪ A B Plated thru holes з 2 А D С BA DCBA В 8.00 [.315] Recommended PCB hole mounting pattern for coaxial, Recommended PCB hole mounting pattern for row column differential and stripline applications differential applications (Same geometry as left view without the gound vias) Hole Plating Table mm [in.] Finsihed Hole Dia. "D" Drilled Hole Dia. Cu. Thickness **SnPb Thickness** 0.457 - 0.559 [.0180 - .0220] 0.025 - 0.045 [.0010 - .0018] 0.008 -0.018 [.0003 - .0007] 0.584 - 0.625 [.0230 - .0246] TS-2220-B Sheet 3 of 3

HSHM Series

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