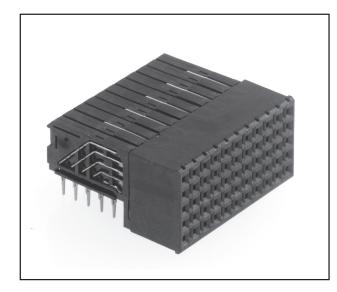
$3M^{TM}$ MetPak M HSHM Press-Fit Socket

2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle



- 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
- Mates with 3M[™] MetPak[™] HSHM headers
- Dual beam contact construction for high reliability
- End-to-end stackable with 5 row 3M[™] MetPak[™] CP2, HM and HSHM sockets
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: October 7, 2010	TS-2075-B
	Sheet 1 of 3

Physical

Insulation

Material: High Temperature Thermoplastic (LCP) Flammability: UL 94V-0 Contact Material: Copper Alloy Plating: 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:	
Electrical: Data Rate:	5 Gb/s
Data Rate:	5 Gb/s 50 Ω Single-ended, 100 Ω Differential
Data Rate:	50 Ω Single-ended, 100 Ω Differential
Data Rate: Characteristic Impedance:	50 Ω Single-ended, 100 Ω Differential 1 A @ 70°C Signal

Environmental

Temperature Rating: -55° C to 125° C

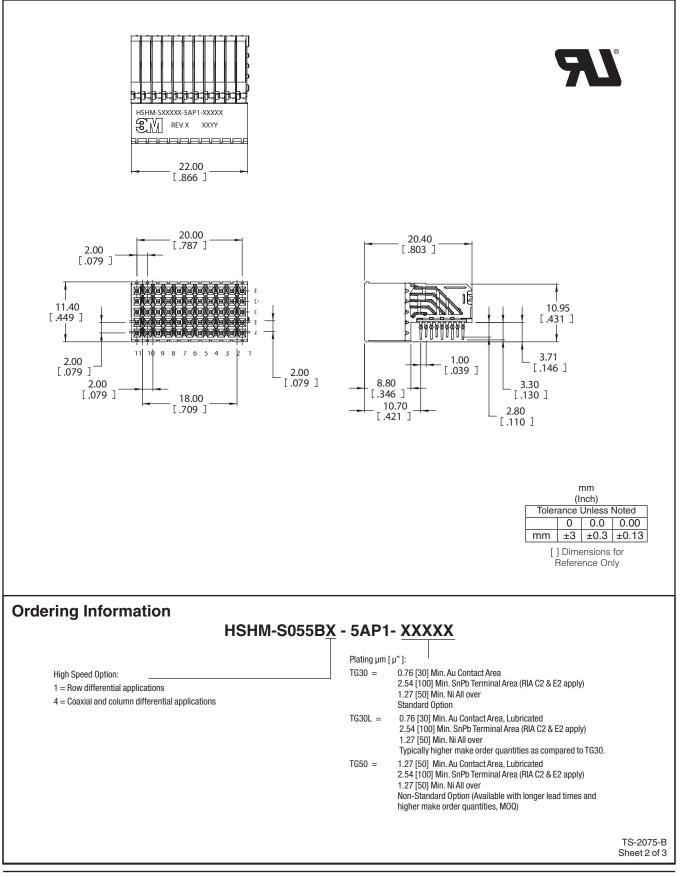
UL File No.: E68080

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

2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

HSHM Series



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

2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

Ø DIM D-⊕Ø 0.10 M A B C Plated thru holes 20.00 С 1.00 1.50 В А А ۲ \widehat{O} 6 6 2.00 Ó 6 в آھ 6 6 0 ്ര 6 С 8.00 6 ര 6 6 0 ¢ 6 0 D 2 3 4 5 9 11 1 6 7 8 1.00 2.00 Recommended PCB hole mounting pattern for coaxial, column differential and stripline applications .. 0₀0 0₀0 0₀0 0₀0 0 6 6 6 0 `o o` 6 6 \odot \bigcirc \bigcirc \bigcirc \bigcirc 0 6 6 0 0 0 0 0 00 ۰D ŝ ത ത 3 4 10 11 5 6 7 Recommended PCB hole mounting pattern for row differential applications. (Same geometry as above without the ground vias.) Hole Plating Table mm [in.] Drilled Hole Dia. Finsihed Hole Dia. "D" 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-2075-B Sheet 3 of 3

HSHM Series

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 HSHM-S055B4-5AP1-TG30L
 HSHM-S055B4-5AP1-TG30L