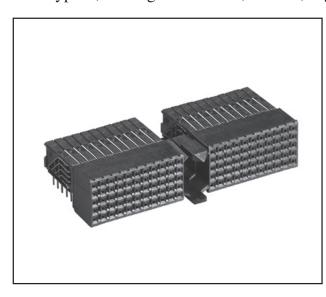
3M[™] MetPak[™] HSHM Press-Fit Socket

2 mm Type A, 110 Signal Contacts, 5 Rows, Right Angle

HSHM Series



- 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
- Multi-purpose center (MPC) for keying and guidance
- 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

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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:

Data Rate: 5 Gb/s

Characteristic Impedance: 50Ω Single-ended, 100Ω Differential

Current Rating (Fully Loaded): $1 \text{ A} @ 70^{\circ}\text{C} \text{ Signal}$ Insulation Resistance: $10^4 \text{ M}\Omega @ 100 \text{ V}_{DC}$

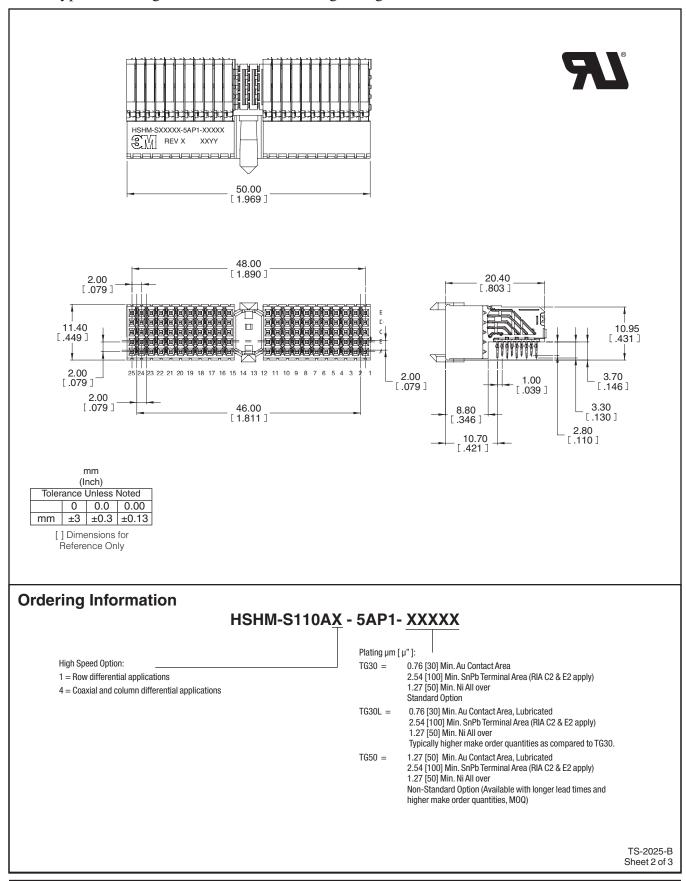
Withstanding Voltage: 750 V_{RMS}

Environmental

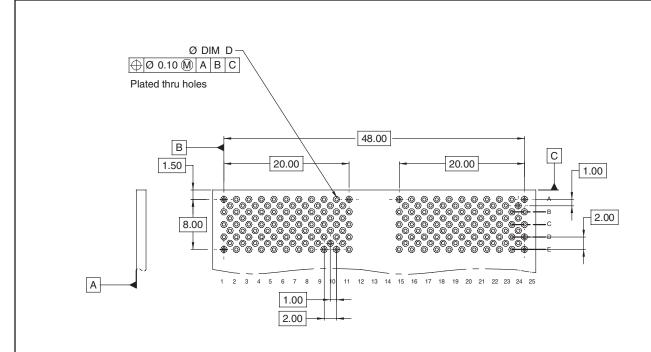
Temperature Rating: -55° C to 125° C

UL File No.: E68080 MetPak is a trademark of 3M Company.

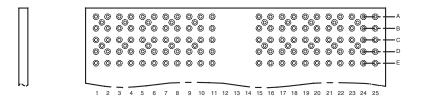
HSHM Series



HSHM Series



Recommended PCB hole mounting pattern for coaxial, column differential and stripline applications.



Recommended PCB hole mounting pattern for row differential applications. (Same geometry as above without the ground vias.)

Hole Plating Table mm [in.]			
Finsihed Hole Dia. "D"	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
0.457 - 0.559 [.01800220]	0.025 - 0.045 [.00100018]	0.008 -0.018 [.00030007]	0.584 - 0.625 [.02300246]

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