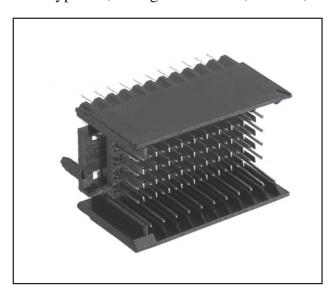
3M[™] MetPak[™] HSHM Press-Fit Header

2 mm Type CR, 55 Signal Contacts, 5 Rows, Straight

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
- 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: November 9, 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

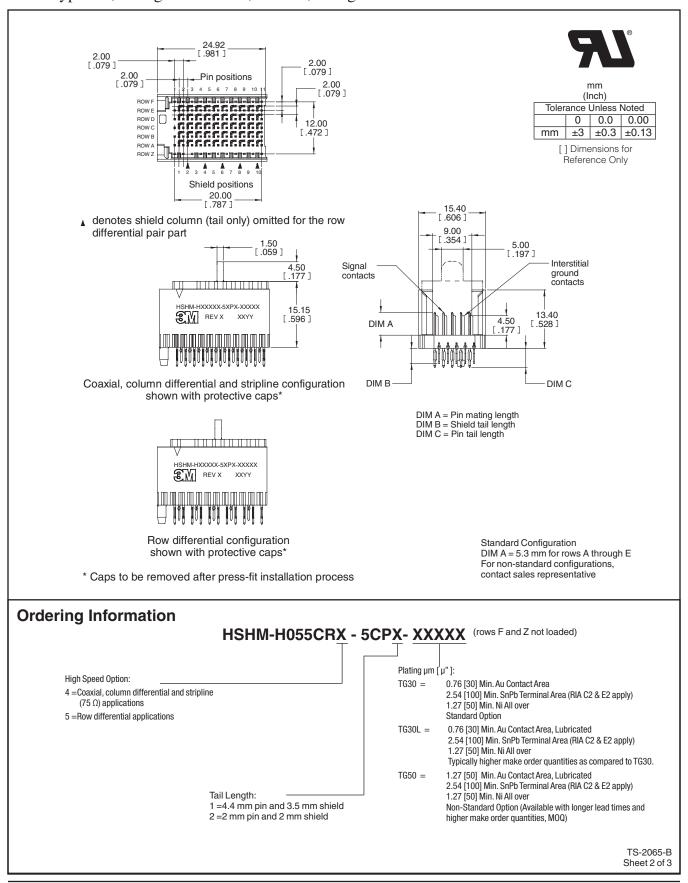
Temperature Rating: -55° C to 125° C

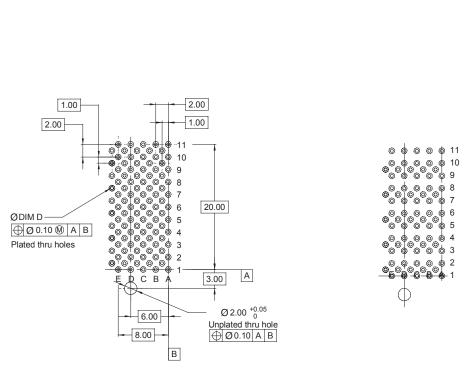
UL File No.: E68080 MetPak is a trademark of 3M Company.

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2 mm Type CR, 55 Signal Contacts, 5 Rows, Straight

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

Recommended PCB hole mounting pattern for row differential applications

Same geometry as left view 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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