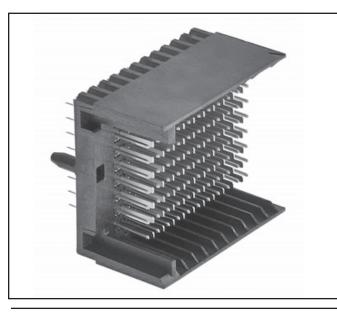
3M[™] MetPak[™] HSHM Press-Fit Header

2 mm Type FR, 88 Signal Contacts, 8 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
- 101 mated lines per linear inch
- End-to-end stackable with 8 row 3M[™] MetPak[™] CP2, HM and HSHM headers
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnectors.com for compliance information (RIA E1 & C1 apply)

Date Modified: June 15, 2009

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Physical

Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL 94V-0

Color:

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

Durability 250 cycles with TR40B plating

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 A @ 70° C Signal Insulation Resistance: $10^4\,M\Omega$ @ $100\,V_{DC}$

Withstanding Voltage: 750 V_{RMS}

Environmental

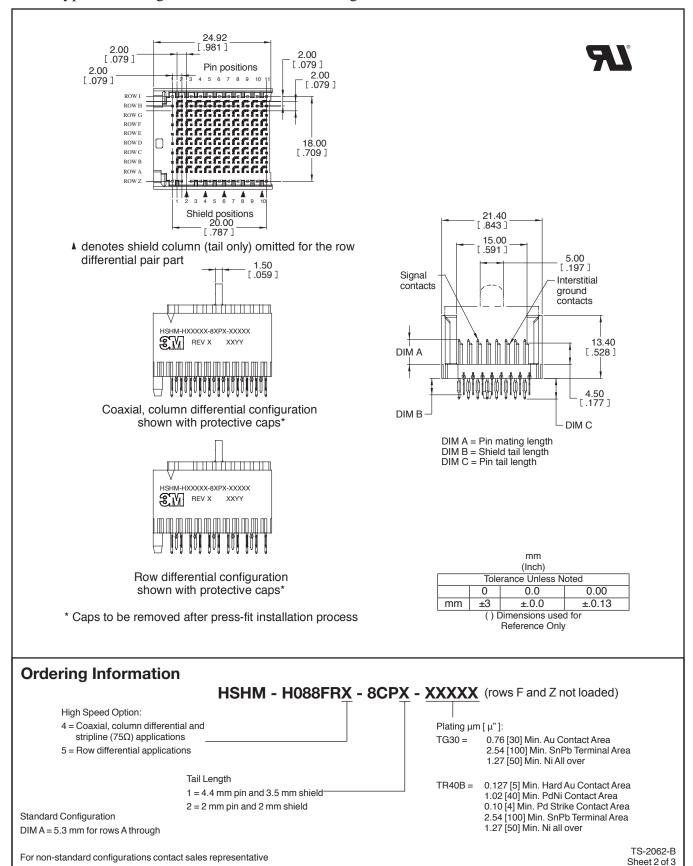
Temperature Rating: -55° C to 125° C

UL File No.: E68080

3M[™] MetPak[™] HSHM Press-Fit Header

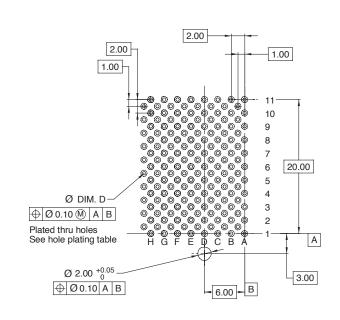
2 mm Type FR, 88 Signal Contacts, 8 Rows, Straight

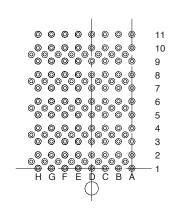
HSHM Series



2 mm Type FR, 88 Signal Contacts, 8 Rows, Straight

HSHM Series





Recommended PCB hole mounting pattern for coaxial, column differential applications

Recommended PCB hole mounting pattern for row differential applications

(Same geometry as left view without the ground vias)

| Hole Plating Table mm [in.] | | | |
|-----------------------------|---------------------------|--------------------------|---------------------------|
| Finished 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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