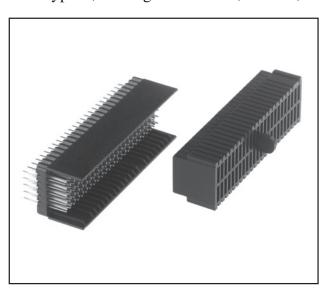
## 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Header

2 mm Type A, 110 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
- Multi-purpose center (MPC) for keying and guidance
- End-to-end stackable with 5 row 3M<sup>™</sup> MetPak<sup>™</sup> 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 suitable for stand-alone use. (Refer to IEC-61076-4-101)

**Electrical:** 

Data Rate: 5 Gb/s

Characteristic Impedance:  $50 \Omega$  Single-ended,  $100 \Omega$  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<sub>rms</sub>

#### **Environmental**

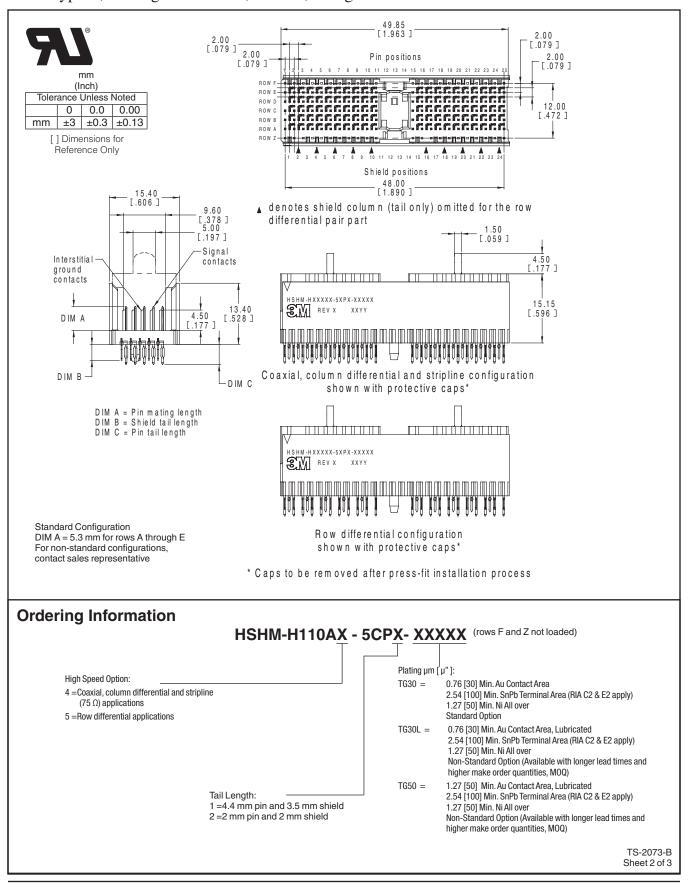
**Temperature Rating:** -55° C to 125° C

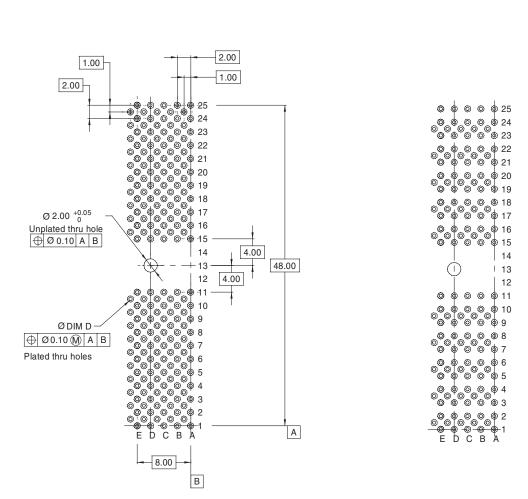
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## 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Header

2 mm Type A, 110 Signal Contacts, 5 Rows, Straight

**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 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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