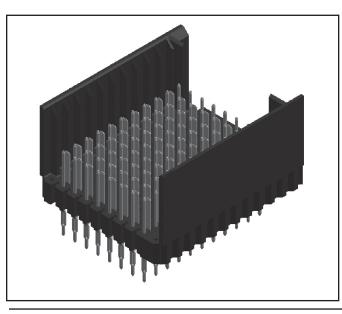
# 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Header

2 mm Type FL, 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<sup>™</sup> MetPak<sup>™</sup> CP2, HM and HSHM headers
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: October 22, 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:  $50 \Omega$  Single-ended,  $100 \Omega$  Differential

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

Withstanding Voltage: 750 V<sub>rms</sub>

### **Environmental**

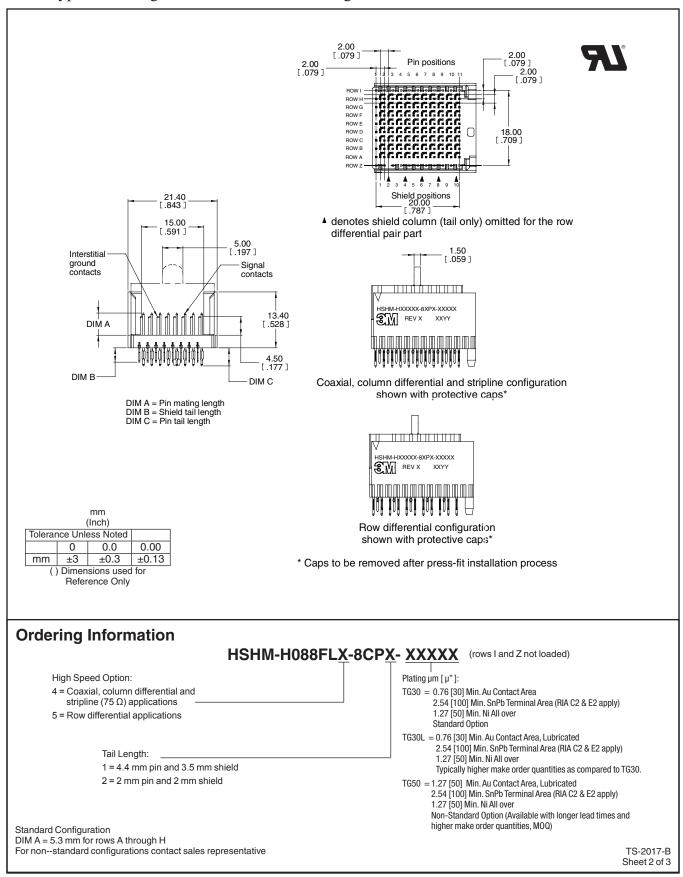
**Temperature Rating:** -55° C to 125° C

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

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

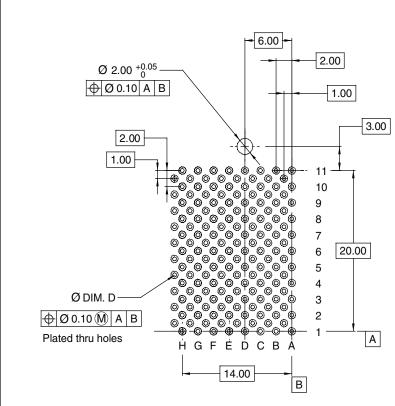
2 mm Type FL, 88 Signal Contacts, 8 Rows, Straight

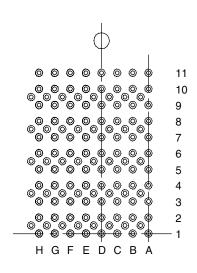
**HSHM Series** 



2 mm Type FL, 88 Signal Contacts, 8 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 above without the ground vias.)

Hole Plating Table mm			
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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