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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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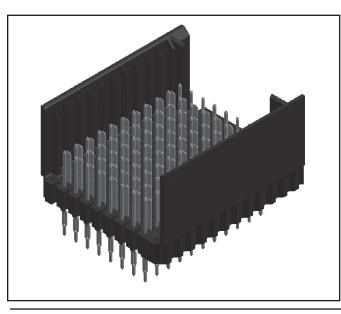




## 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Header

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

TS-2017-B Sheet 1 of 3

## **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**

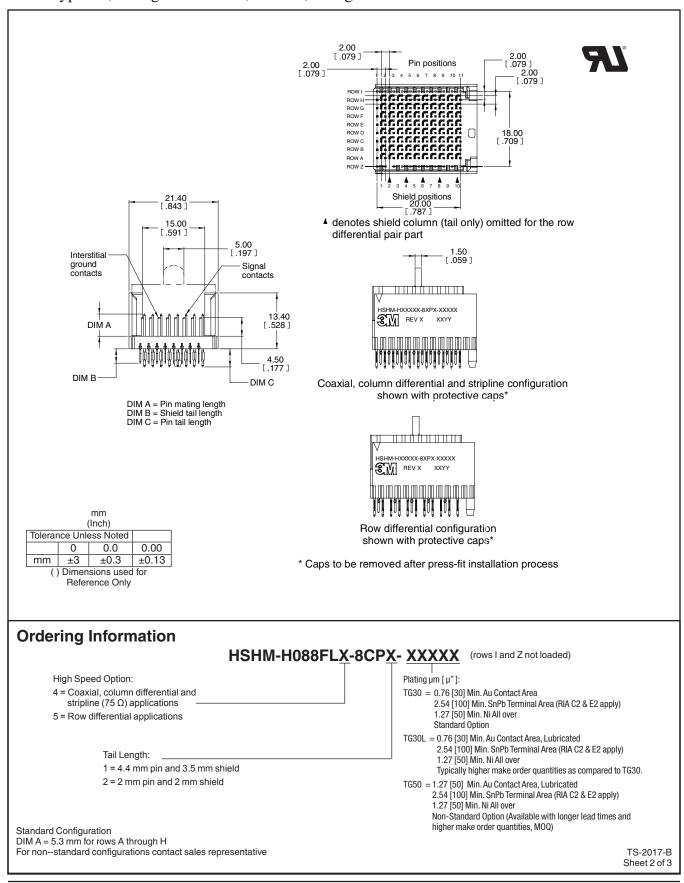
**Temperature Rating:** -55° C to 125° C

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

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

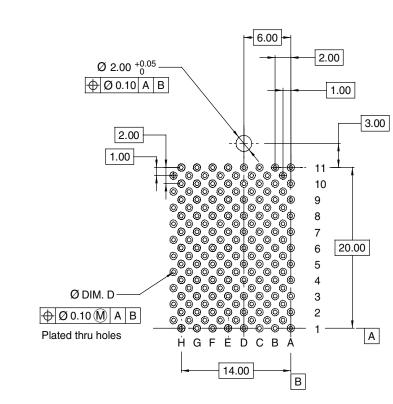
2 mm Type FL, 88 Signal Contacts, 8 Rows, Straight

**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]

TS-2017-B Sheet 3 of 3

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**3M Electronics Solutions Division**