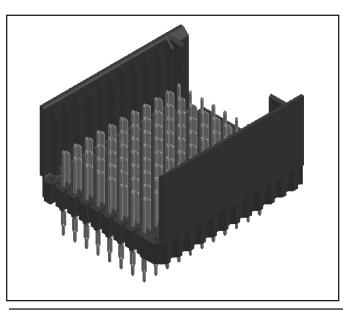
3M[™] MetPak[™] HSHM Press-Fit Header

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[™] MetPak[™] 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: 50Ω Single-ended, 100Ω Differential

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

Withstanding Voltage: 750 V_{rms}

Environmental

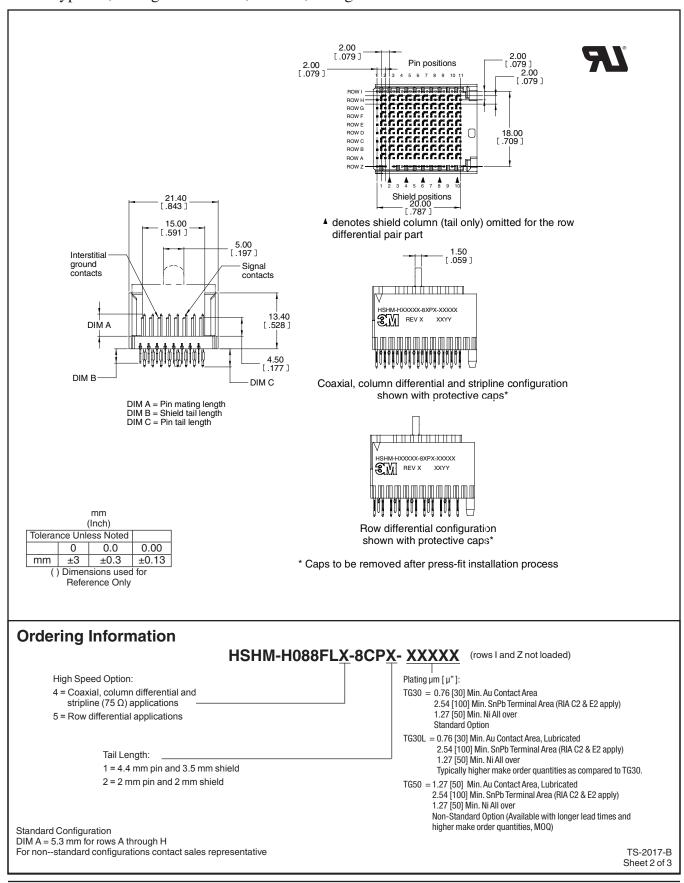
Temperature Rating: -55° C to 125° C

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

3M[™] MetPak[™] HSHM Press-Fit Header

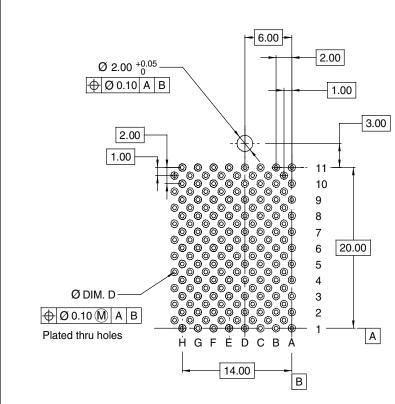
2 mm Type FL, 88 Signal Contacts, 8 Rows, Straight

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

Important Notice All statements, technical information, and recommendations related to 3M's products are based on information believed to be reliable, but the accuracy or completeness is not guaranteed. Before using this product, you must evaluate it and determine if it is suitable for your intended application. You assume all risks and liability associated with such use. Any statements related to the product which are not contained in 3M's current publications, or any contrary statements contained on your purchase order shall have no force or effect unless expressly agreed upon, in writing, by an authorized officer of 3M. Warranty; Limited Remedy; Limited Liability. This product will be free from defects in material and manufacture for a period of one (1) year from the time of purchase. 3M MAKES NO OTHER WARRANTIES

INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. If this product is defective within the warranty period stated above, your exclusive remedy shall be, at 3M's option, to replace or repair the 3M product or refund the purchase price of the 3M product. Except where prohibited by law, 3M will not be liable for any indirect, special, incidental or consequential loss or damage arising from this 3M product, regardless of

3M is a trademark of 3M Company.

the legal theory asserted.

6801 River Place Blvd. Austin, TX 78726-9000

www.3Mconnector.com

U.S.A. 1-800-225-5373

3M Electronics Solutions Division

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

3M:

HSHM-H088FL5-8CP1-TG30 HSHM-H088FR4-8CP1-TG30L HSHM-H088FL5-8CP1-TG30L