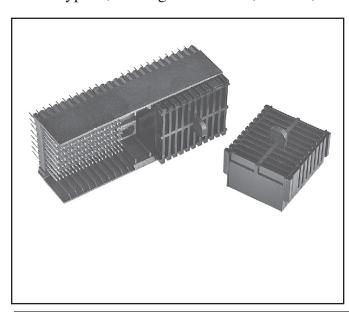
3M[™] MetPak[™] HSHM Press-Fit Header

2 mm Type D, 176 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
- Four integrated 8.25 A power contacts
- Integrated guide pin
- End-to-end stackable with 8 row 3M[™] MetPak[™] HM and HSHM headers
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: November 8, 2010

TS-2015-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 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

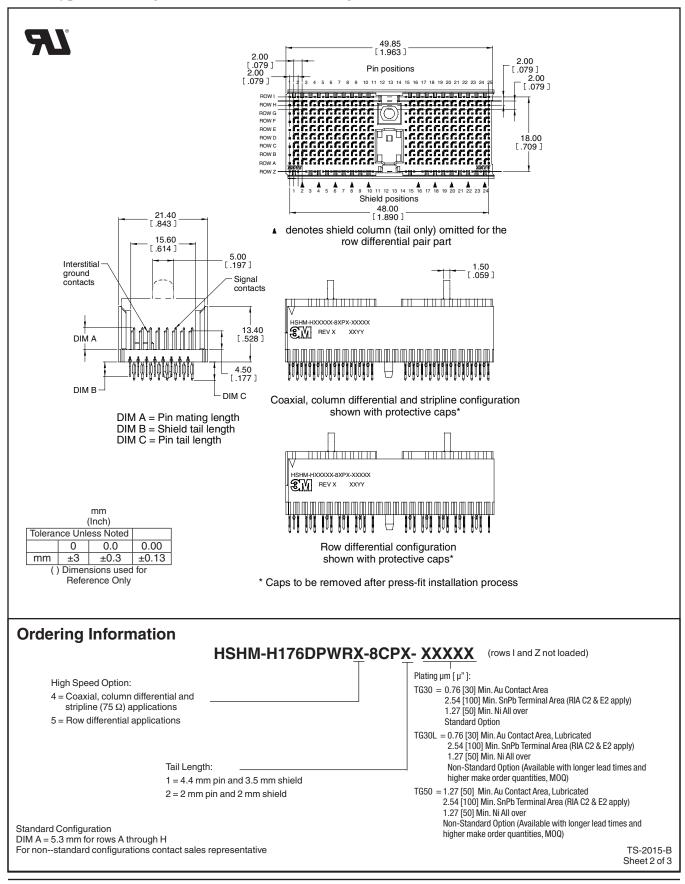
Temperature Rating: -55° C to 125° C

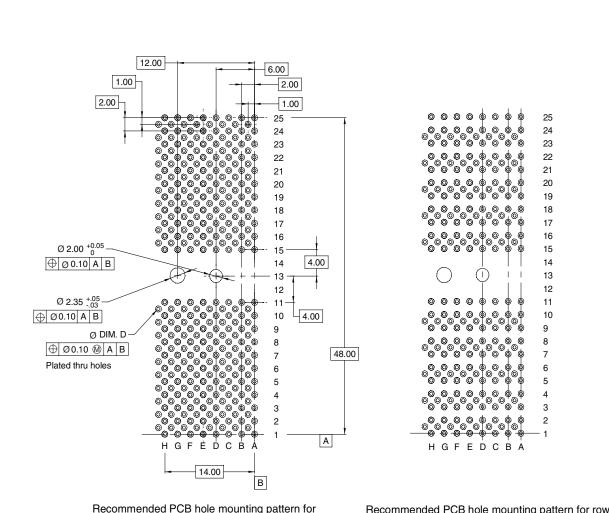
UL File No.: E68080 MetPak is a trademark of 3M Company.

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2 mm Type D, 176 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 left view without the ground vias)

Hole Plating Table mm			
Finished Hole Dia.	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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