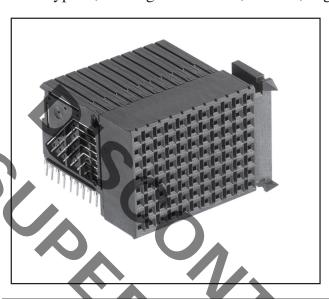
# 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Socket

2 mm Type D, 176 Signal Contacts, 8 Rows, Right Angle

**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
- Dual beam contact construction for high reliability
- Multi-purpose center (MPC) for keying and guidance
- End-to-end stackable with 8 row 3M<sup>™</sup> MetPak<sup>™</sup> 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 17, 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):  $1 \text{ A} @ 70^{\circ} \text{ C} \text{ Signal}$ Insulation Resistance:  $10^{4} \text{ M}\Omega @ 100 \text{ V}_{DC}$ 

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

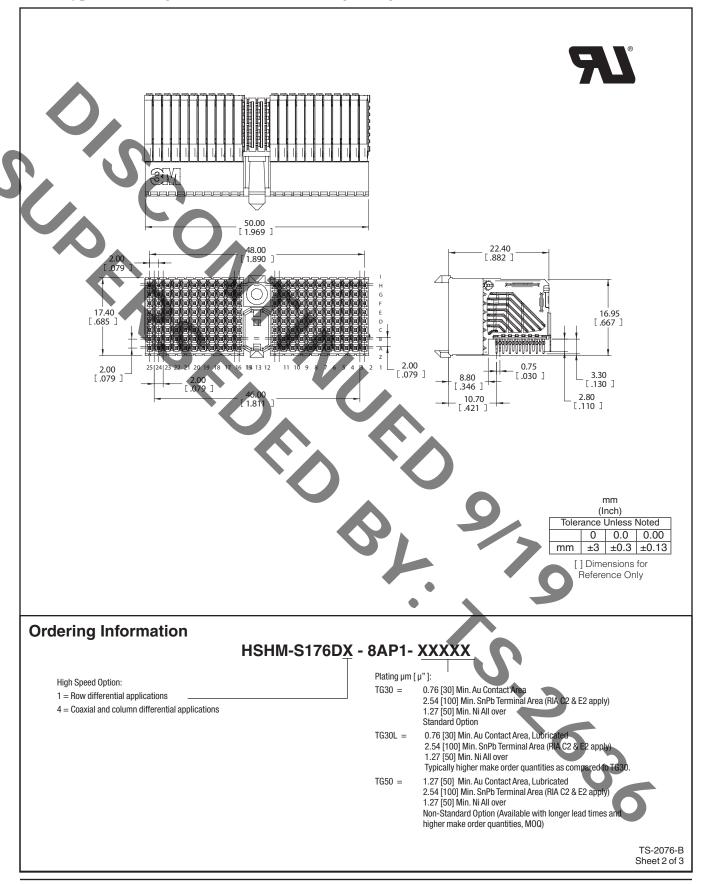
## **Environmental**

**Temperature Rating:**  $-55^{\circ}$  C to  $125^{\circ}$  C

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

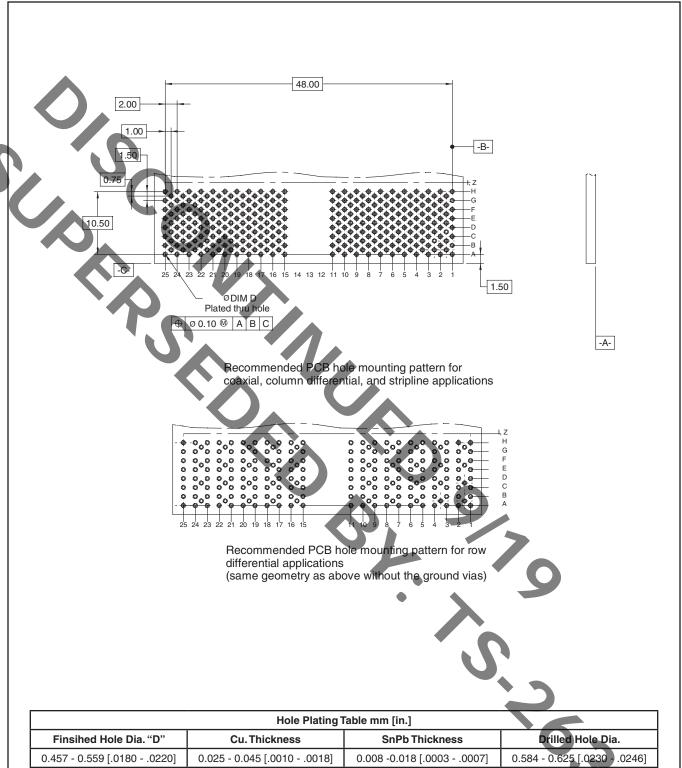
2 mm Type D, 176 Signal Contacts, 8 Rows, Right Angle

**HSHM Series** 



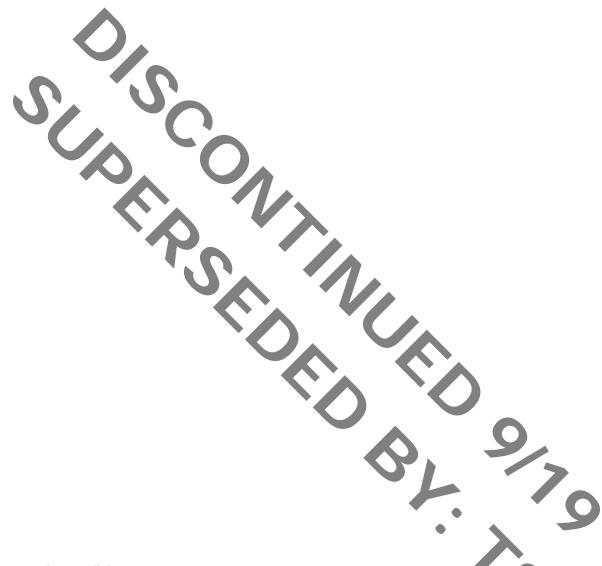
2 mm Type D, 176 Signal Contacts, 8 Rows, Right Angle

**HSHM** Series



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