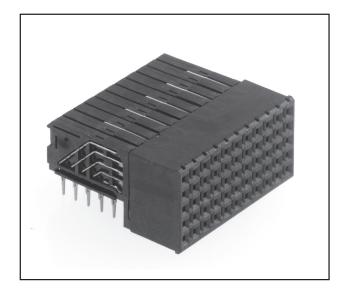
# $3M^{TM}$ MetPak M HSHM Press-Fit Socket

### 2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle



- 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
- 63 mated lines per linear inch
- Mates with 3M<sup>™</sup> MetPak<sup>™</sup> HSHM headers
- Dual beam contact construction for high reliability
- End-to-end stackable with 5 row 3M<sup>™</sup> MetPak<sup>™</sup> CP2, HM and HSHM sockets
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: October 7, 2010	TS-2075-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:	
Electrical: Data Rate:	5 Gb/s
Data Rate:	5 Gb/s 50 Ω Single-ended, 100 Ω Differential
Data Rate:	50 $\Omega$ Single-ended, 100 $\Omega$ Differential
Data Rate: Characteristic Impedance:	50 Ω Single-ended, 100 Ω Differential 1 A @ 70°C Signal

### **Environmental**

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

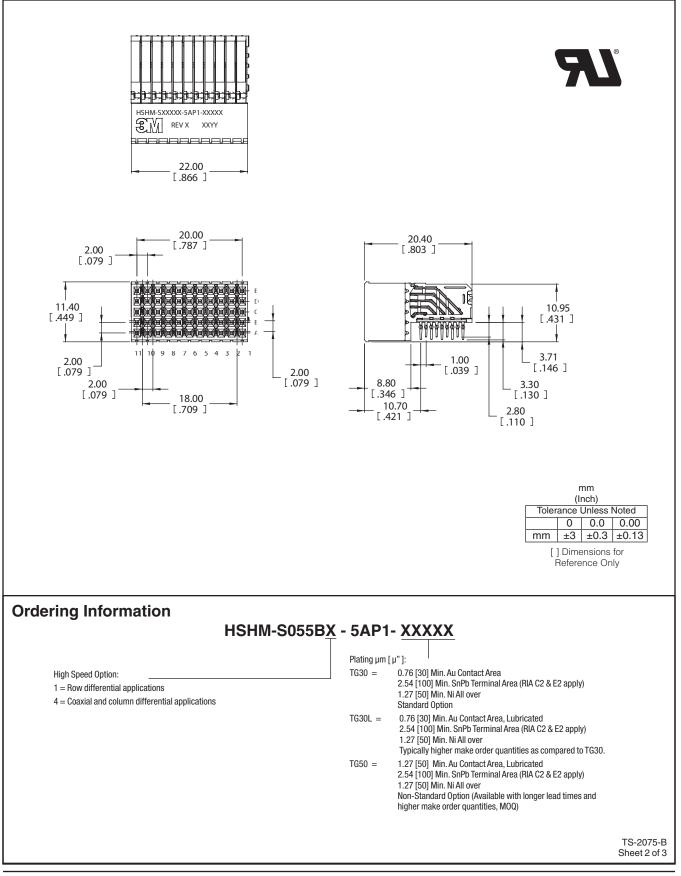
UL File No.: E68080

MetPak is a trademark of 3M Company.

## $3M^{TM}$ MetPak $^{TM}$ HSHM Press-Fit Socket

### 2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

HSHM Series



**3M** Electronic Solutions Division Interconnect Solutions http://www.3Mconnector.com 3M is a trademark of 3M Company. For technical, sales or ordering information call 800-225-5373

## $3M^{TM}$ MetPak TM HSHM Press-Fit Socket

### 2 mm Type B11, 55 Signal Contacts, 5 Rows, Right Angle

Ø DIM D-⊕Ø 0.10 M A B C Plated thru holes 20.00 С 1.00 1.50 В А А ۲  $\widehat{O}$ 6 6 2.00 Ó 6 в آھ 6 6 0 ്ര 6 С 8.00 6 ര 6 6 0 ¢ 6 0 D 2 3 4 5 9 11 1 6 7 8 1.00 2.00 Recommended PCB hole mounting pattern for coaxial, column differential and stripline applications .. 0<sub>0</sub>0 0<sub>0</sub>0 0<sub>0</sub>0 0<sub>0</sub>0 0 6 6 6 0 `o o` 6 6  $\odot$  $\bigcirc$   $\bigcirc$  $\bigcirc$  $\bigcirc$ 0 6 6 0 0 0 0 0 00 ۰D ŝ ത ത 3 4 10 11 5 6 7 Recommended PCB hole mounting pattern for row differential applications. (Same geometry as above without the ground vias.) Hole Plating Table mm [in.] Drilled Hole Dia. Finsihed Hole Dia. "D" Cu. Thickness **SnPb Thickness** 0.457 - 0.559 [.0180 - .0220] 0.025 - 0.045 [.0010 - .0018] 0.008 -0.018 [.0003 - .0007] 0.584 - 0.625 [.0230 - .0246]

> TS-2075-B Sheet 3 of 3

HSHM Series

#### **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 the legal theory asserted.



**3M Electronics Solutions Division** 6801 River Place Blvd. Austin, TX 78726-9000 U.S.A. 1-800-225-5373 www.3Mconnector.com

Please recycle. Printed in USA. © 3M 2010. All rights reserved. RIA-2217B-E

## **Mouser Electronics**

Authorized Distributor

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

**3M**:

 HSHM-S055B4-5AP1-TG30
 HSHM-S055B1-5AP1-TG30
 HSHM-S055B1-5AP1-TR40B
 HSHM-S055B4-5AP1-TR40B

 HSHM-S055B1-5AP1-TG30L
 HSHM-S055B1-5AP1-TG50
 HSHM-S055B4-5AP1-TG30L
 HSHM-S055B4-5AP1-TG30L