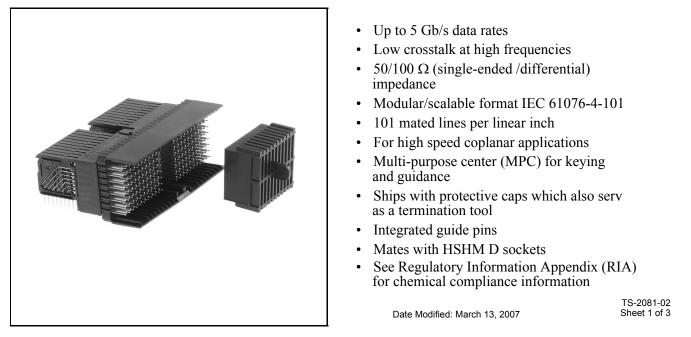
# 3M<sup>™</sup> MetPak<sup>™</sup> HSHM Press-Fit Header

# 2 mm Type RAH, 176 Signal Contacts, 8 Rows, Right Angle

## **HSHM Series**



## **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
Durability:	250 cycles with TR40B plating
Application:	This module is suitable for stand-alone use. (Refer to IEC-61076-4-101.)
Electrical	
Data Rate:	5 Gb/s
Characteristic Impedance:	50 W Single-ended, 100 W Differential
urrent Rating (Fully Loaded):	C1 A at 70× C Signal
Insulation Resistance:	10 <sup>4</sup> MW at 100 V <sub>DC</sub>
Withstanding Voltage:	750 V <sub>RMS</sub>

## Environmental

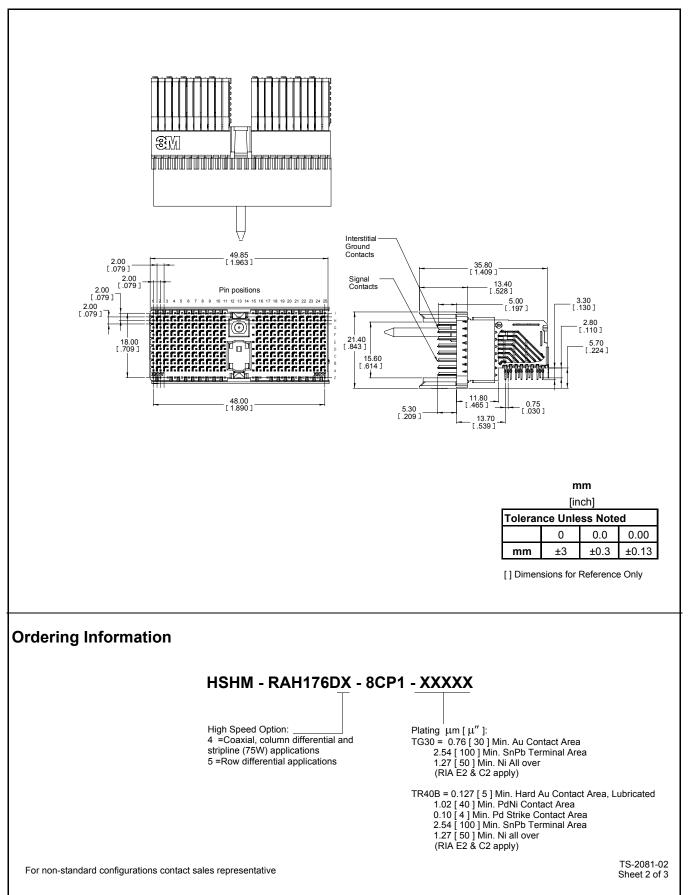
**Temperature Rating:** -55×C to +125×C

MetPak is a trademark of 3M Company.

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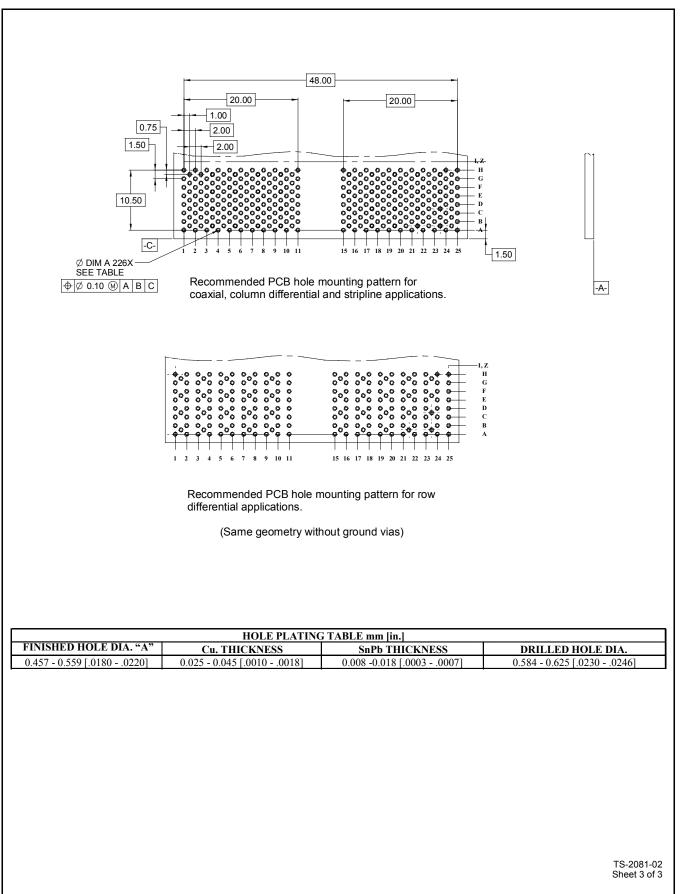




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### HSHM Series



### EUROPE

### **Appendix E1: European Union RoHS**

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

#### This product is RoHS Compliant 2005/95/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

#### **Appendix E2: European Union RoHS**

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC

This product contains lead in the compliant pin area in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/747/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/ EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

### **Appendix E3: European Union RoHS**

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment as amended by Commission Decision 2005/618/EC.

#### This product contains lead in the solder tail area in excess of the maximum concentration value allowed.

Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.

### **Appendix E4: European Union RoHS**

Directive 2002/95/EC, Restriction of the Use of Certain Hazardous Substances in Electrical & Electronic Equipment, as amended by EU Commission Decision 2005/618/EC.

This product contains decaBDE in the insulating material in excess of the maximum concentration value allowed but is compliant by exemption under EU Commission Decision 2005/17/EC.

"RoHS Compliant 2005/95/EC" means that the product or part ("Product") does not contain any of the substances in excess of the maximum concentration values in EU Directive 2002/95/EC, as amended by Commission Decision 2005/618/EC, unless the substance is in an application that is exempt under EU RoHS. Unless otherwise stated by 3M in writing, this information represents 3M's best knowledge and belief based upon information provided by third party suppliers to 3M.

In the event any product is proven not to conform with 3M's Regulatory Information Appendix, then 3M's entire liability and Buyer's exclusive remedy will be in accordance with the Warranty stated below.