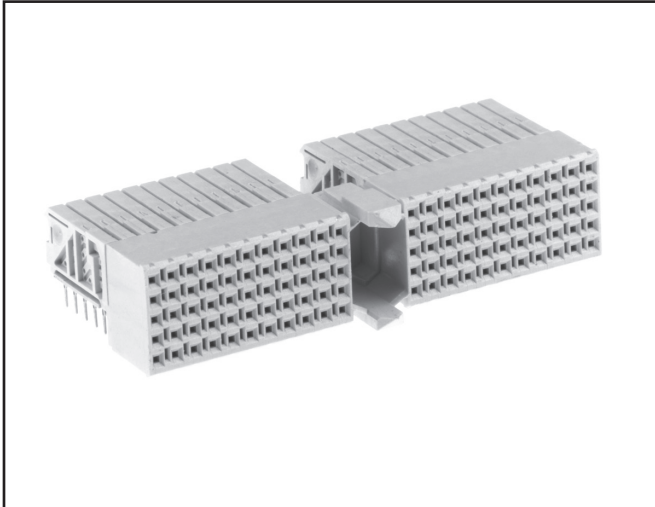


3M™ MetPak™ HM Press-Fit Socket

2 mm Type A, 110 Signal Contacts, 5 Rows, Right Angle

HM Series



- Modular/scalable format IEC 61076-4-101
- 63 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 5 row 3M™ MetPak™ CP2, HM and HSHM Products
- Mates with 3M™ MetPak™ HSHM headers
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3mconnector.com for compliance information

Date Modified: November 16, 2010

TS-2067-B
Sheet 1 of 3

Physical

Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL 94V-0

Color:

Material: Copper Alloy

Plating: See Ordering information

Marking: 3M Logo, Part Number, Revision, Date Code

Performance

Mechanical:

Normal Force (Nominal): 0.57 N [58 g] Signal

Engagement Force (Nominal): 0.32 N [33 g] Signal

Separation Force (Nominal): 0.20 N [20 g] Signal

Wipe (Nominal, Shortest Contact): 2.67 mm [0.105 in] Signal

Mate/Unmate Cycles: 250

Application: This module is suitable for stand-alone use.

Electrical:

Current Rating (Fully Loaded): 1 A @ 70° C Signal

Insulation Resistance: $1 \times 10^4 \text{ M}\Omega$ @ 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.



Electronic Solutions Division
Interconnect Solutions
<http://www.3M.com/interconnects/>

3M is a trademark of 3M Company.
For technical, sales or ordering information call
800-225-5373

3M™ MetPak™ HM Press-Fit Socket

2 mm Type A, 110 Signal Contacts, 5 Rows, Right Angle

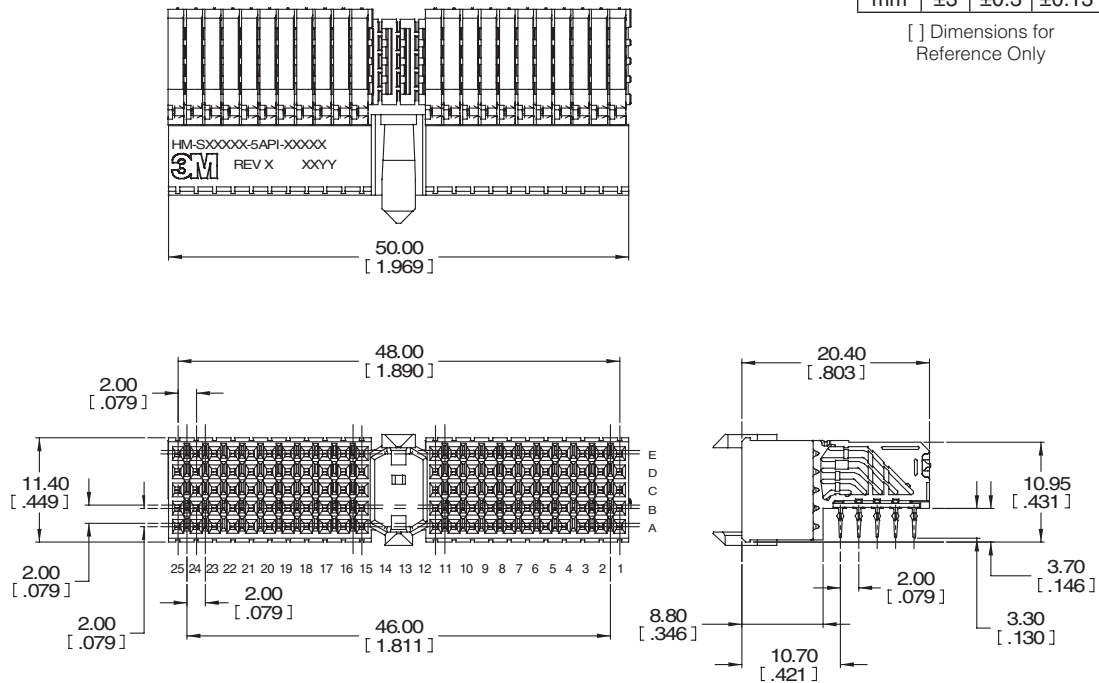
HM Series



mm
(Inch)

Tolerance Unless Noted			
	0	0.0	0.00
mm	±3	±0.3	±0.13

[] Dimensions for Reference Only



Ordering Information

HM-S110A1 - 5AP1 - XXXXX

Plating μm [μm]:

TG30 = 0.76 [30] Min. Au Contact Area
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)
 1.27 [50] Min. Ni All over
 Standard Option

TG30L = 0.76 [30] Min. Au Contact Area, Lubricated
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)
 1.27 [50] Min. Ni All over
 Typically higher make order quantities as compared to TG30.

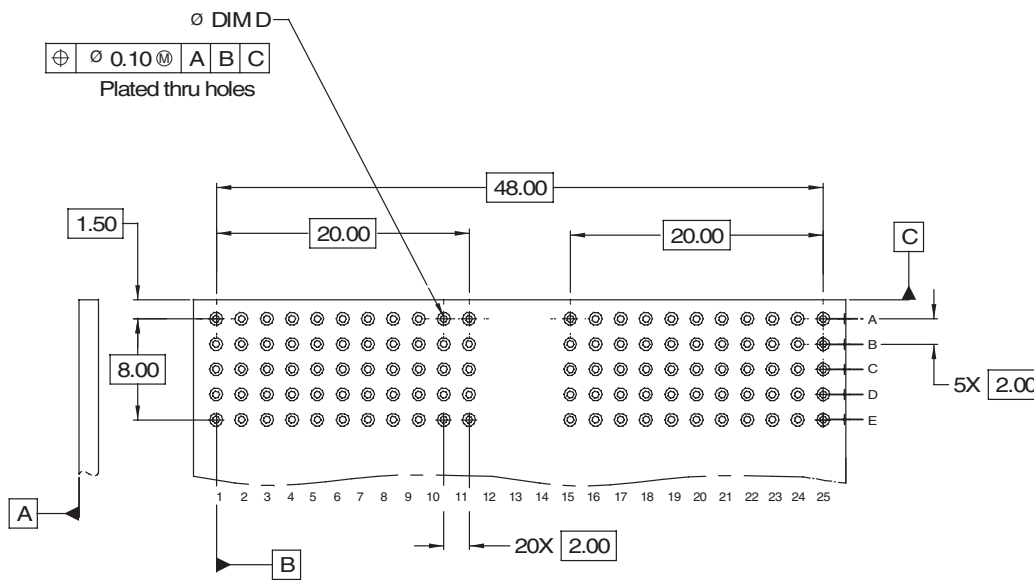
TG50 = 1.27 [50] Min. Au Contact Area, Lubricated
 2.54 [100] Min. SnPb Terminal Area (RIA C2 & E2 apply)
 1.27 [50] Min. Ni All over
 Non-Standard Option (Available with longer lead times and higher make order quantities, MOQ)

TS-2067-B
 Sheet 2 of 3

3M™ MetPak™ HM Press-Fit Socket

2 mm Type A, 110 Signal Contacts, 5 Rows, Right Angle

HM Series



Recommended PCB hole mounting pattern

Hole Plating Table

Finished Hole Dia. "D"	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
0.550-0.650 [.0217-.0256]	0.025-0.045 [.0010-.0018]	0.008-0.018 [.0003-.0007]	0.686-0.727 [.0270-.0286]

TS-2067-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 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

3M is a trademark of 3M Company.