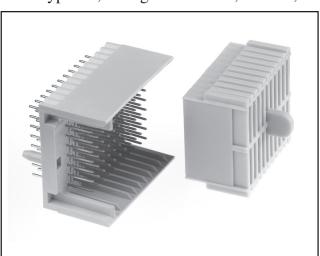
3M[™] MetPak[™] HM Header

2 mm Type FR, 88 Signal Contacts, 8 Rows, Straight

HM Series



- Modular/scalable format IEC 61076-4-101
- Press-fit or solder tail version
- 101 mated lines per linear inch
- Ships with protective cap, which also serves as an insertion tool
- End-to-end stackable with 8 row 3M[™] MetPak[™] HM and HSHM products
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: November 16, 2010

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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 not suitable for stand-alone use. (Refer to IEC-61076-4-101)

Electrical:

Current Rating (Fully Loaded): $1 \text{ A} @ 70^{\circ} \text{ C}$ Signal Insulation Resistance: $1 \text{ x} 10^{4} \text{ M}\Omega @ 100 \text{ V}_{DC}$

Withstanding Voltage: 750 V_{rms}

Environmental

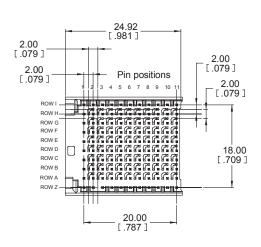
Temperature Rating: -55° C to 125° C

Process Rating: Maximum 260°C (per J-STD-020C)

Withstanding Voltage: 1 (per J-STD-020C)

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

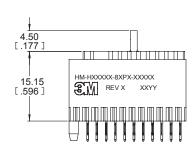
2 mm Type FR, 88 Signal Contacts, 8 Rows, Straight





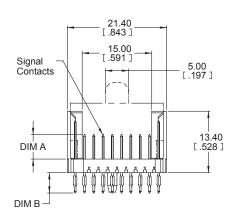
(Inch) Tolerance Unless Noted 0.0 0.00 ±3 ±0.3 ±0.13

> [] Dimensions for Reference Only



Shown with protective caps*

^{*} Caps to be removed after press-fit installation process



DIM A = Pin mating length DIM B = Pin tail length

Ordering Information

HM - H088FR1 - 8CX1 - XXXXX (rows I and Z not loaded) HM - H110FR2 - 8BX1 - XXXXX

(rows I and Z loaded 8.3 mm mate length)

Tail Style: P = Press-fit tail S = Solder tail

Plating µm [µ"]: 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)

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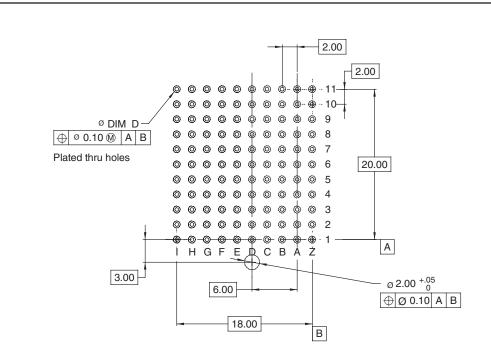
3M

Standard configuration

DIM A = 5.3 mm for rows A through H

For non-standard configurations contact sales representative

2 mm Type FR, 88 Signal Contacts, 8 Rows, Straight



Recommended PCB hole mounting pattern

Hole Plating Table			
Finished Hole Dia. "D"	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
0.550 - 0.650 [.02170256]	0.025 - 0.045 [.00100018]	0.008 - 0.018 [.00030007]	0.686 - 0.727 [.02700286]

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