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3M HM-H176DPWR1-8CP2-TG30L

For any questions, you can email us directly: sales@integrated-circuit.com

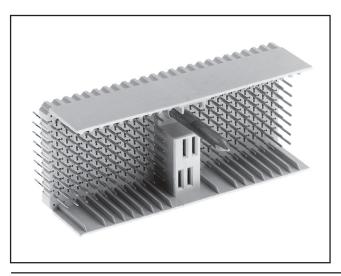


Datasheet of HM-H176DPWR1-8CP2-TG30L - CONN HEADER HM 176POS 8ROW STR Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

## 3M<sup>™</sup> MetPak<sup>™</sup> HM Power Header

2 mm Type D, 176 Signal/4 Power Contacts, 8 Rows, Straight

**HM Series** 



- Modular/scalable format IEC 61076-4-101
- Press-fit or solder tail versions
- 101 mated lines per linear inch
- Four integrated 8.25 A power contacts and guide pin
- Ships with protective cap, which also serves as an insertion tool
- Integrated guide pin
- End-to-end stackable with 8 row 3M<sup>™</sup> MetPak<sup>™</sup> HM and HSHM products
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: April 29, 2011

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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, 0.98 N [ 100 g ] Power Engagement Force (Nominal): 0.32 N [33 g] Signal, 1.42 N [ 145 g ] Power Separation Force (Nominal): 0.20 N [20 g] Signal, 0.89 N [ 91 g ] Power

Wipe (Nominal, Shortest Contact): 2.67 mm [0.105 in] Signal, 1.93 N [ 0.076 in. ] Power

Mate/Unmate Cycles: 250

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

**Electrical:** 

Current Rating (Fully Loaded): 1 A @ 70° C Signal, 8.25 A at 70×C Power

Insulation Resistance:  $1 \times 10^4 \, \text{M}\Omega$  @  $100 \, \text{V}_{\text{DC}}$ 

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

#### **Environmental**

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

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

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

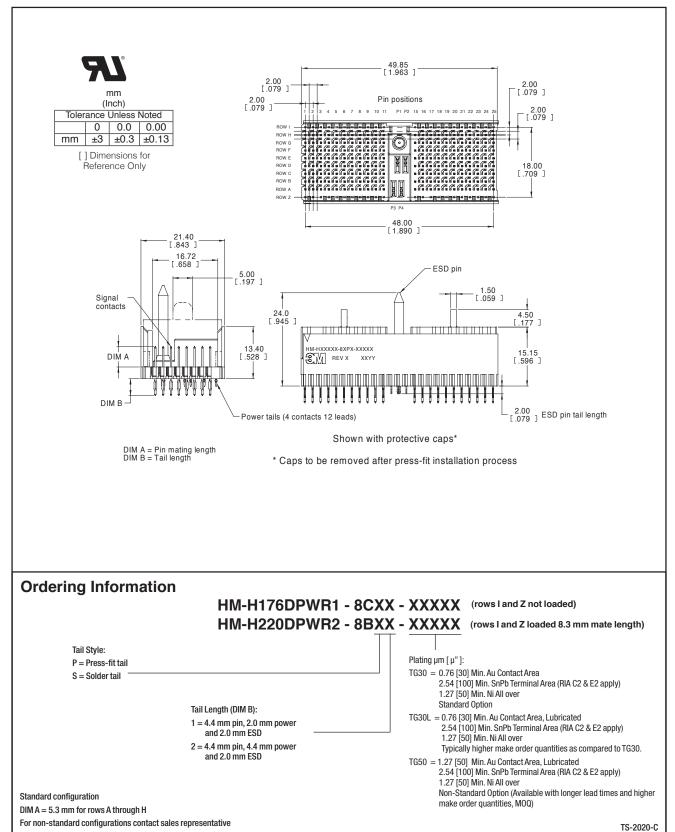
UL File No.: E68080 MetPak is a trademark of 3M Company.

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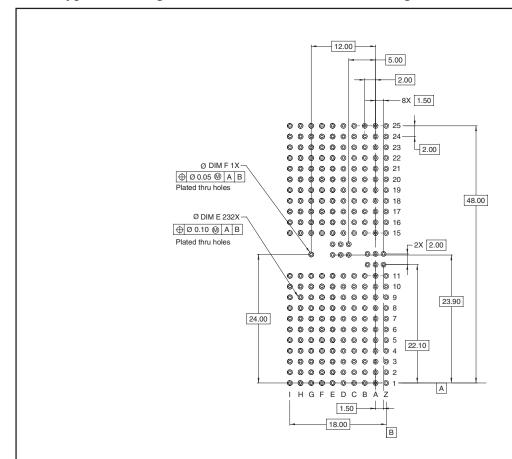
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Recommended PCB hole mounting pattern

Hole Plating Table				
DIM	Finished Hole Dia. "D"	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
"A"	0.550 - 0.650 [.02170256]	0.025 - 0.045 [.00100018]	0.008 - 0.018 [.00030007]	0.686 - 0.727 [.02700286]
"B"	0.690 - 0.790 [.02700310]	0.025 - 0.045 [.00100018]	0.008 - 0.018 [.00030007]	0.810 - 0.860 [.03200340]

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