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3M HSHM-H055CL4-5CP1-TG30L

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



Datasheet of HSHM-H055CL4-5CP1-TG30L - CONN HEADER HSHM 55POS 5ROW STR Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

3M[™] MetPak[™] HSHM Press-Fit Header

2 mm Type CL, 55 Signal Contacts, 5 Rows, Straight

HSHM Series



- 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
- End-to-end stackable with 5 row 3M[™] MetPak[™] 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: November 9, 2010

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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:

Data Rate: 5 Gb/s

Characteristic Impedance: 50Ω Single-ended, 100Ω Differential

Current Rating (Fully Loaded): 1 A @ 70°C Signal Insulation Resistance: $10^4\,M\Omega$ @ $100\,V_{DC}$

Withstanding Voltage: 750 V_{rms}

Environmental

Temperature Rating: -55° C to 125° C

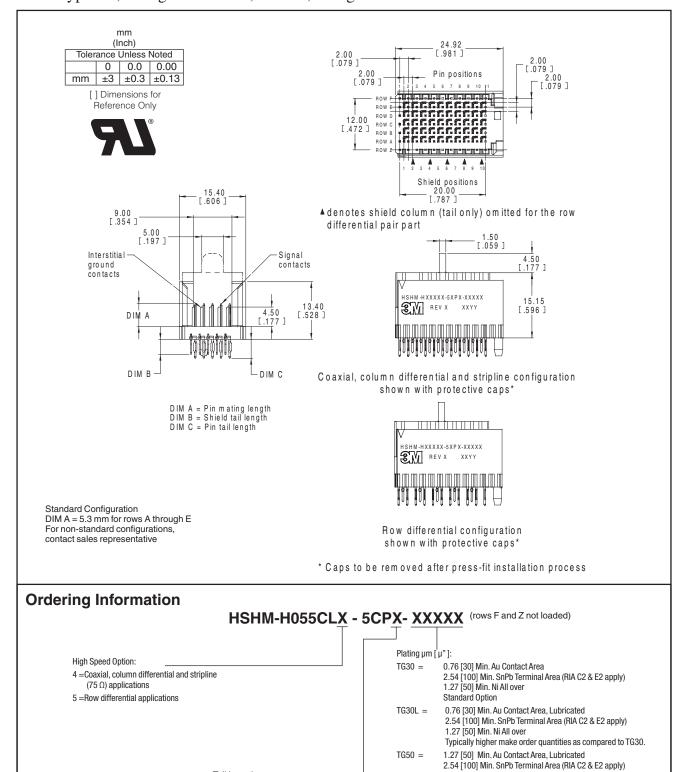
UL File No.: E68080 MetPak is a trademark of 3M Company.

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Tail Length:

1 =4.4 mm pin and 3.5 mm shield

2 = 2 mm pin and 2 mm shield

TS-2024-B Sheet 2 of 3

Non-Standard Option (Available with longer lead times and

1 27 [50] Min Ni All over

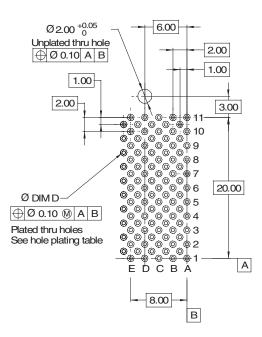
higher make order quantities, MOQ)

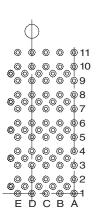
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Recommended PCB hole mounting pattern for coaxial, column differential and stripline applications

Recommended PCB hole mounting pattern for row differential applications

(Same geometry as left view without the ground vias)

Hole Plating Table mm [in.]			
Finsihed Hole Dia. "D"	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
0.457 - 0.559 [.01800220]	0.025 - 0.045 [.00100018]	0.008 -0.018 [.00030007]	0.584 - 0.625 [.02300246]

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