Excellent Integrated System Limited

Stocking Distributor

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<u>3M</u> <u>HSHM-H110B4-5CP1-TG30</u>

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

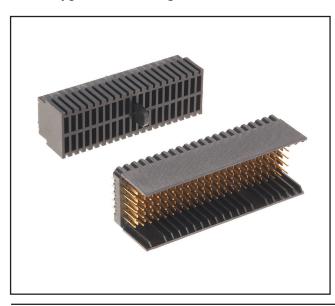
Distributor of 3M: Excellent Integrated System Limited

Datasheet of HSHM-H110B4-5CP1-TG30 - CONN HEADER HSHM 110POS 5ROW STR Contact us: sales@integrated-circuit.com Website: www.integrated-circuit.com

3M[™] MetPak[™] HSHM Press-Fit Header

2 mm Type B22, 110 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
- Press-fit headers and receptacles
- 63 mated lines per linear inch
- End-to-end stackable with 5 row 3M[™] MetPak[™] CP2, HM, and HSHM headers
- Mates with 3M[™] MetPak[™] HSHM sockets
- See the Regulatory Information Appendix (RIA) in the "RoHS compliance" section of www.3mconnector.com for compliance information

Date Modified: November 10, 2010

TS-2248-C Sheet 1 of 3

Physical

Insulation:

Material: High Temperature Thermoplastic (LCP)

Flammability: UL 94V-0

Color:

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

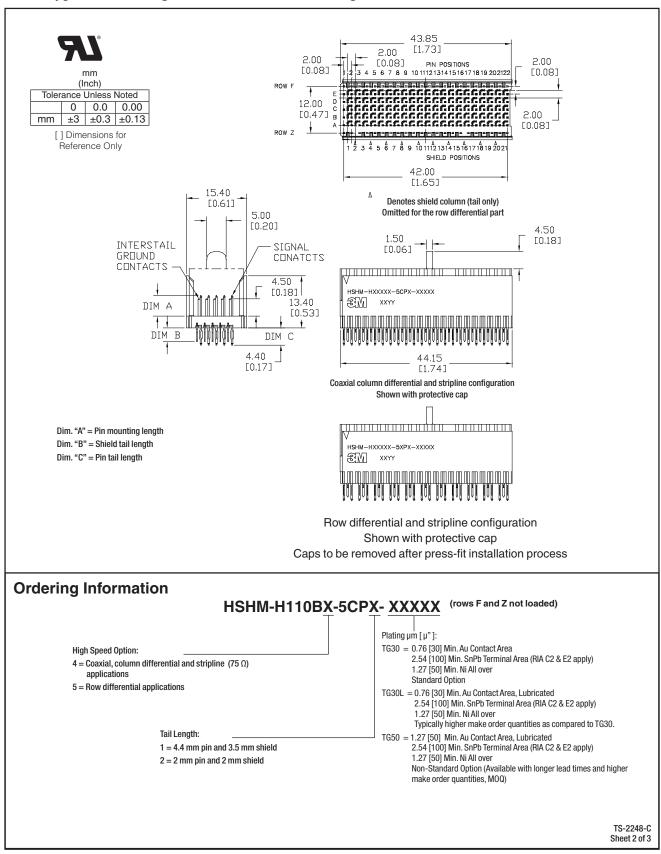
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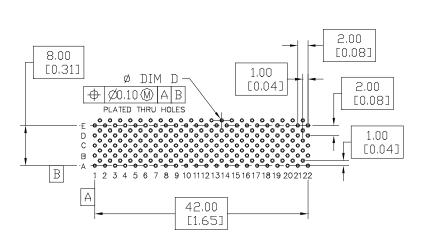


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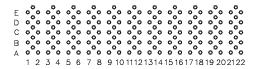
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Recommended PCB hole mounting pattern for coaxial, Column differential and stripline applications.



Recommended PCB hole mounting pattern for row differential applications.

(Same geometry as above without the ground vias.)

Hole Plating Table mm [in.]			
Finished 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]

TS-2248-C Sheet 3 of 3



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