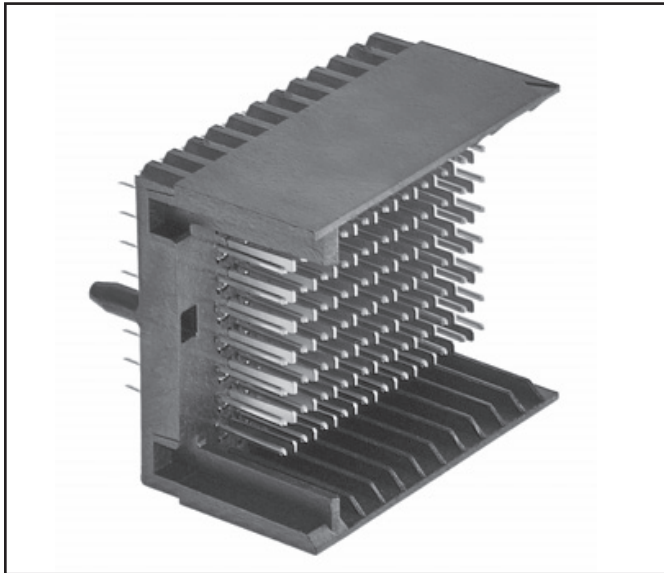


3M™ MetPak™ HSHM Press-Fit Header

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

HSHM Series



- Up to 5 Gb/s data rates
- Low crosstalk at high frequencies
- 50/100 Ω (single-ended /differential) impedance
- Modular/scalable format IEC 61076-4-101
- 101 mated lines per linear inch
- End-to-end stackable with 8 row 3M™ MetPak™ CP2, HM and HSHM headers
- See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3mconnectors.com for compliance information

Date Modified: November 9, 2010

TS-2062-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: 50 Ω Single-ended, 100 Ω Differential
Current Rating (Fully Loaded): 1 A @ 70° C Signal
Insulation Resistance: 10⁴ M Ω @ 100 V_{DC}
Withstanding Voltage: 750 V_{rms}

Environmental

Temperature Rating: -55° C to 125° C

UL File No.: E68080

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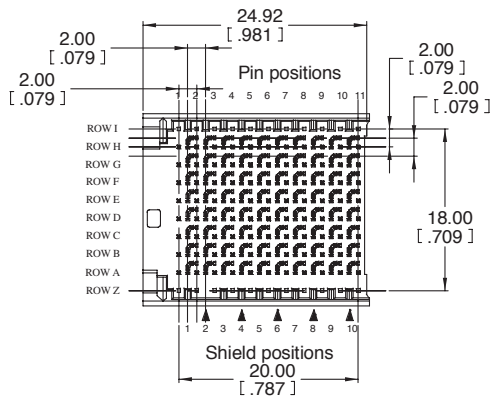
3M
Electronic Solutions Division
Interconnect Solutions
<http://www.3mconnectors.com>

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For technical, sales or ordering information call
800-225-5373

3M™ MetPak™ HSHM Press-Fit Header

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

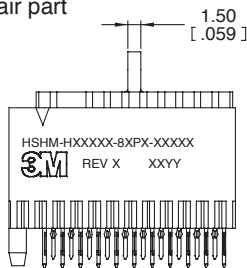
HSHM Series



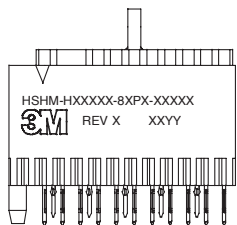
mm (Inch)		
Tolerance Unless Noted		
	0	0.00
mm	±3	±0.13

() Dimensions used for Reference Only

▲ denotes shield column (tail only) omitted for the row differential pair part

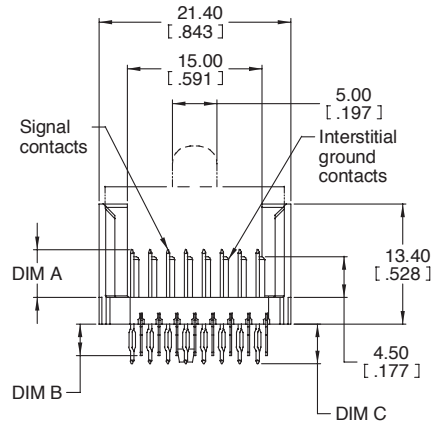


Coaxial, column differential configuration shown with protective caps*



Row differential configuration shown with protective caps*

* Caps to be removed after press-fit installation process



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

Ordering Information

HSHM - H088FRX - 8CPX - XXXXX (rows F and Z not loaded)

High Speed Option:

- 4 = Coaxial, column differential and stripline (75Ω) applications
- 5 = Row differential applications

Tail Length

- 1 = 4.4 mm pin and 3.5 mm shield
- 2 = 2 mm pin and 2 mm shield

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)

Standard Configuration

DIM A = 5.3 mm for rows A through

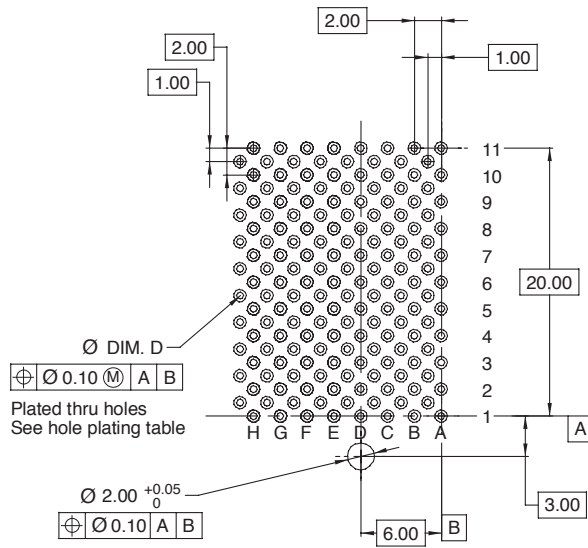
For non-standard configurations contact sales representative

TS-2062-C
Sheet 2 of 3

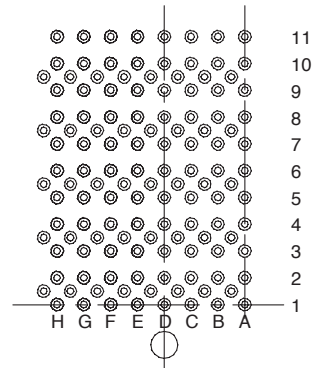
3M™ MetPak™ HSHM Press-Fit Header

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

HSHM Series



Recommended PCB hole mounting pattern for coaxial, column differential applications



Recommended PCB hole mounting pattern for row differential applications

(Same geometry as left view without the ground vias)

Hole Plating Table mm [in.]

Finished Hole Dia. (D)	Cu. Thickness	SnPb Thickness	Drilled Hole Dia.
0.457 - 0.559 [.0180 - .0220]	0.025 - 0.045 [.0010 - .0018]	0.008 - 0.018 [.0003 - .0007]	0.584 - 0.625 [.0230 - .0246]

TS-2062-C
Sheet 3 of 3

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

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