# 3M ${ }^{\text {TM }}$ MetPak $^{\text {TM }}$ HSHM Press-Fit Header 

2 mm Type A, 110 Signal Contacts, 5 Rows, Straight


- Up to $5 \mathrm{~Gb} / \mathrm{s}$ 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
- Multi-purpose center (MPC) for keying and guidance
- End-to-end stackable with 5 row $3 \mathrm{M}^{\mathrm{Tm}}$ MetPak ${ }^{\mathrm{Tm}} \mathrm{CP} 2$, 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
TS-2073-B
Sheet 1 of 3

## Physical

Insulation Material: High Temperature Thermoplastic (LCP)
Flammability: UL 94V-0
Contact
Material: Copper Alloy
Plating: See Ordering Information

## Performance

$$
\begin{aligned}
& \text { Mechanical: } \\
& \text { Normal Force (Nominal): } 0.57 \mathrm{~N}[58 \mathrm{~g}] \text { Signal, } 0.74 \mathrm{~N}[75 \mathrm{~g}] \text { Shield } \\
& \text { Engagement Force (Nominal): } 0.32 \mathrm{~N}[33 \mathrm{~g}] \text { Signal, } 0.22 \mathrm{~N}[22 \mathrm{~g}] \text { Shield } \\
& \text { Separation Force (Nominal): } 0.20 \mathrm{~N}[20 \mathrm{~g}] \text { Signal, } 0.20 \mathrm{~N}[20 \mathrm{~g}] \text { Shield } \\
& \text { Wipe (Nominal, Shortest Contact): } 2.67 \mathrm{~mm}[0.105 \mathrm{in}] \text { Signal, } 1.57 \mathrm{~mm}[0.062 \mathrm{in}] \text { Shield } \\
& \text { Mate/Unmate Cycles: } 250 \\
& \text { Application: } \text { This module is suitable for stand-alone use. (Refer to IEC-61076-4-101) } \\
& \text { Electrical: } \\
& \text { Data Rate: } 5 \mathrm{~Gb} / \mathrm{s} \\
& \text { Characteristic Impedance: } 50 \Omega \text { Single-ended, } 100 \Omega \text { Differential } \\
& \text { Current Rating (Fully Loaded): } 1 \mathrm{~A} @ 70^{\circ} \mathrm{C} \text { Signal } \\
& \text { Insulation Resistance: } 10^{4} \mathrm{M} \Omega @ 100 \mathrm{~V}_{\mathrm{DC}} \\
& \text { Withstanding Voltage: } 750 \mathrm{~V}_{\mathrm{rms}}
\end{aligned}
$$

## Environmental

Temperature Rating: $-55^{\circ} \mathrm{C}$ to $125^{\circ} \mathrm{C}$
UL File No.: E68080
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HSHM Series


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2 mm Type A, 110 Signal Contacts, 5 Rows, Straight


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.]

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## 3M

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