

3M™ Pak 8 Hermaphroditic Connector

0.8 mm, Vertical, Surface Mount, 11.5 mm Stack Height, Solder Brackets

P08 Series



- 0.8 mm pitch Hermaphroditic Connector System
- Unigender connector functions as both plug and socket
- Surface mount design with solder brackets to increase solder joint integrity
- 11.5 mm stacking height
- High temperature insulator compatible with lead-free assembly
- Polarized alignment posts insure correct assembly and mating
- Available suction tape or molded plug for pick and place operations
- Available tape and reel packaging
- RoHS Compliant. See the Regulatory Information Appendix (RIA) in the “RoHS compliance” section of www.3M.com/Interconnects for compliance information (RIA E1 & C1 apply)

Date Modified: September 8, 2009

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Physical

Insulation:

Material: Liquid Crystal Polymer

Flammability: UL 94V-0

Color: Natural (off white)

Contact:

Material: Copper Alloy

Plating:

Underplating: 50 μ" (1.27 μm) Nickel

Wiping Area: 8 μ" (0.2 μm) minimum Gold

Solder Tails: Gold Flash

Solder Brackets: Sn plated Copper Alloy

Electrical

Current Rating: 0.5 A

Voltage Rating: 60 V

Insulation Resistance: $>1 \times 10^6 \Omega$ at 500 V_{DC}

Withstanding Voltage: 250 V_{AC} for 1 minute

Environmental

Temperature Rating: -55°C to +85°C

Process Rating: 260°C (per J-Std-020)



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

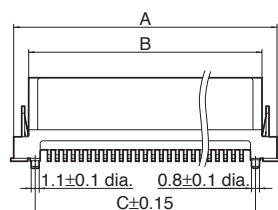
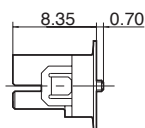
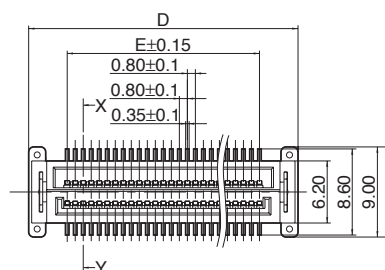
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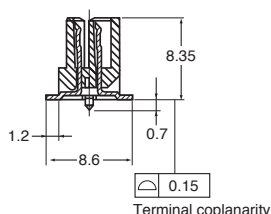
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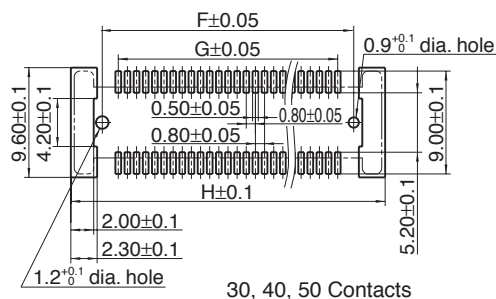
Pos #	A	B	C	D	E	F	G	H
30	18.9	15.3	14.0	18.9	11.2	14.0	11.2	19.5
40	22.9	19.3	18.0	22.9	15.2	18.0	15.2	23.5
50	26.9	23.3	22.0	26.9	19.2	22.0	19.2	27.5
80	39.7	36.1	34.8	39.7	32.0	34.8	32.0	40.3
100	47.7	44.1	42.8	47.7	40.0	42.8	40.0	48.3



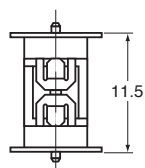
X-Y cross section



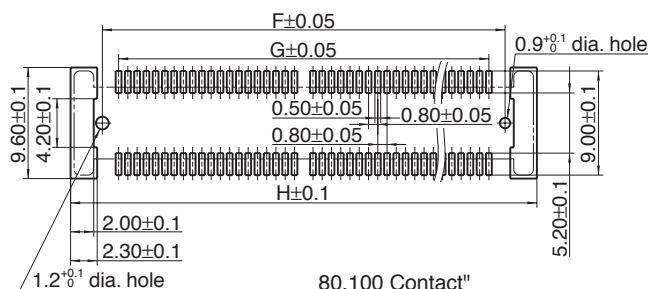
Recommended PC board pattern (TOP VIEW)



30, 40, 50 Contacts



Mated Stack Height



80, 100 Contact
"Center contact is removed"

mm
[inch]

Tolerance Unless Noted		
	.0	.00
mm	±.1	±.10

[] Dimensions for Reference Only

Ordering Information

P08 - XXX - HLXX - E - G

Contact Quantity
(see table)

Hermaphroditic

Locator Posts

C = Adhesive Suction Cover

M = Molded Suction Cover (Recommended for 260°C Process Temperature)

Blank = No Cover

T = Tape & Reel Packaging
Blank = Tube Pack

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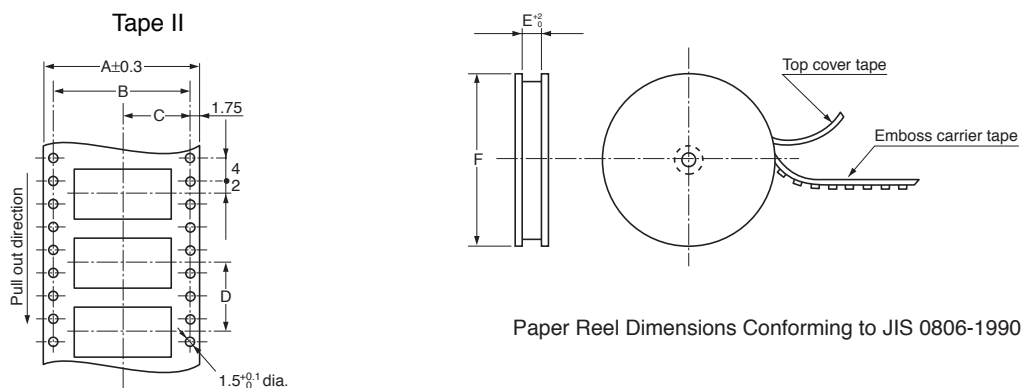
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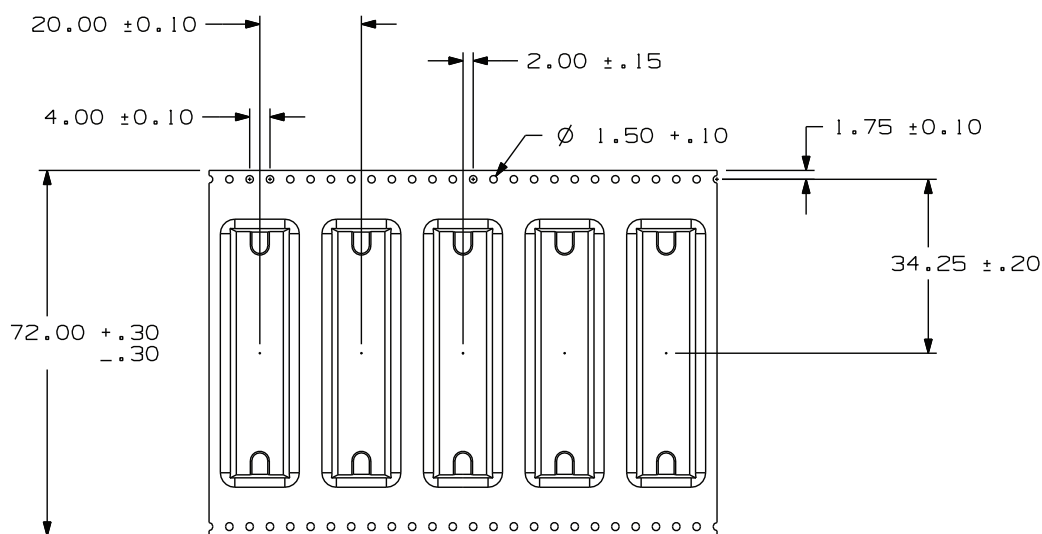
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Packaging

30, 40, 50, 80 Contact Connectors



100 Contact Connector



Tape and Reel Dimensions							
	A	B	C	D	E	F	ea/reel
30,40	32	28.4	14.2	24	32.4	370 dia.	350
50	44	40.4	20.2	24	44.4	370 dia.	350
80	56	52.4	26.2	24	56.4	370 dia.	250
100	Contact 3M						

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