

INTEGRATED CONNECTOR MODULES

2 x n Multi-port Gigabit belStack™



BM02832

- Multi-port shielded RJ-45 connector with integrated Gigabit Ethernet magnetics
- Compatible with a variety of Gigabit Ethernet transceiver ICs and 10/100Base-TX transceiver ICs
- Operating temperature 0° to +70° C
- Storage temperature -40° to +85° C
- Complies with IEEE 802.3ab standards and all Gigabit Ethernet specifications
- Integrated design conserves valuable board space
- Minimum interwinding breakdown voltage of 1500 Vrms
- Adaptable, modular design provides higher reliability

ELECTRICAL SPECIFICATIONS AT 25° C

Part Number	Insertion Loss dB max		Return Loss dB min		Common to Differential Mode Rejection dB min	Common to Common Mode Rejection dB min	Crosstalk dB min	Hipot Vrms min
	0.1MHz to 100MHz	100MHz to 125MHz	0.5MHz to 40MHz	40MHz to 100MHz	100KHz to 100MHz	100KHz to 100MHz		
0833-2X4R-33	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500
0833-2X6R-33	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500
0833-2X8R-33	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500
0833-2X4R-54	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500
0833-2X6R-54	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500
0833-2X8R-54	-0.8	-1.2	-18	-12 + 20 log (f/80 MHz)	-35	-30	-33 + 20 log (f/100MHz)	1500

Available Options

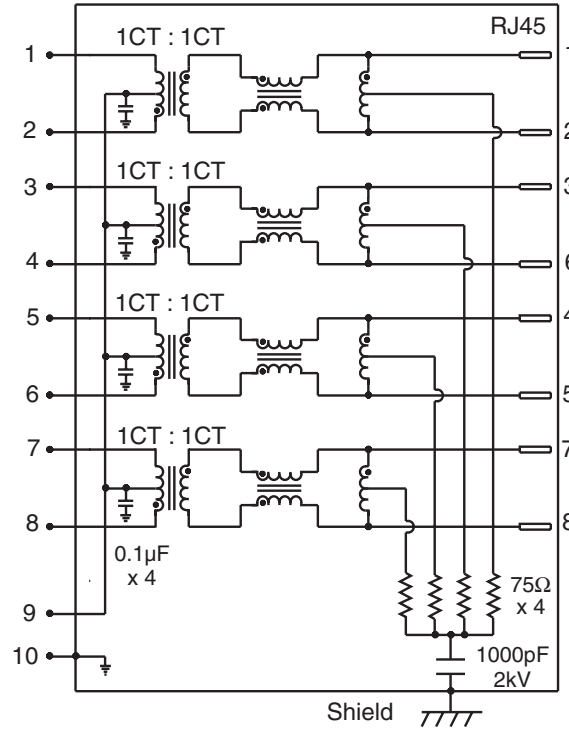
- Various transformer turns ratios
- Various high voltage capacitor values

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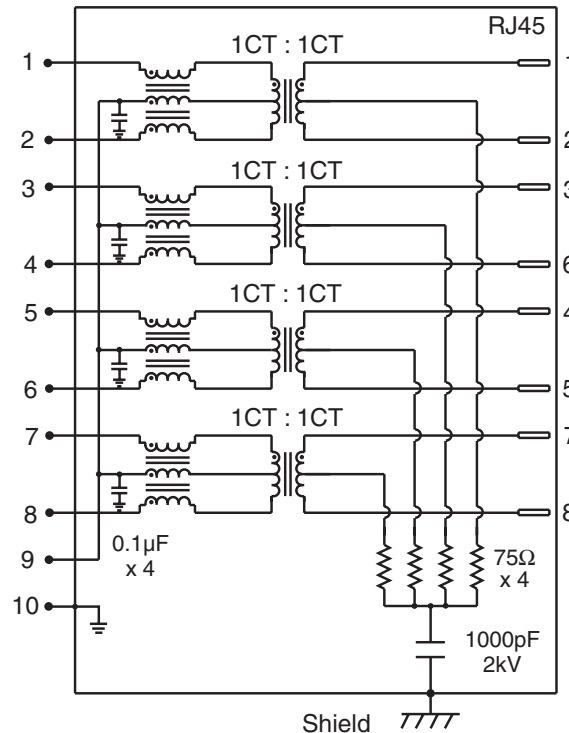
2 x n Multi-port Gigabit belStack™

SCHEMATICS

0833-2X4R-33
0833-2X6R-33
0833-2X8R-33



0833-2X4R-54
0833-2X6R-54
0833-2X8R-54



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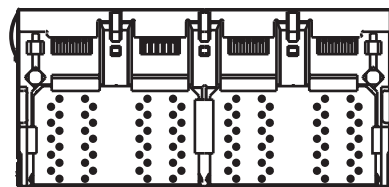
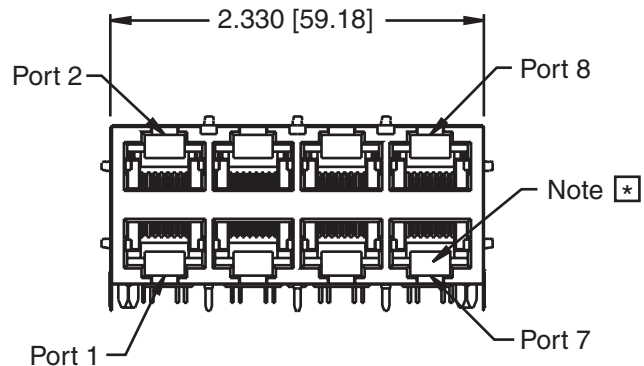
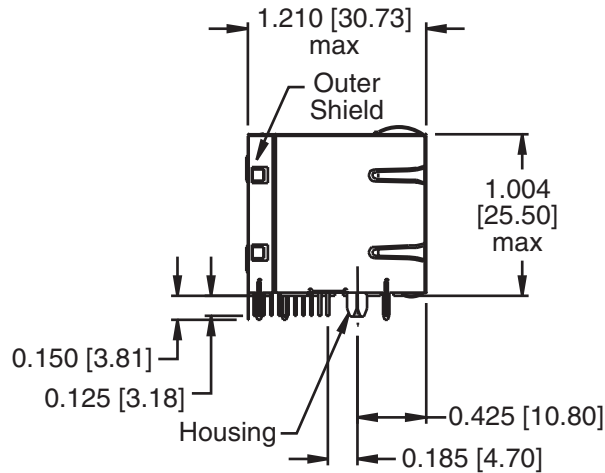
2 x n Multi-port Gigabit belStack™

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MECHANICAL

0833-2X4R-33
0833-2X4R-54



Dimensions are in inches [millimeters].
Standard dimension tolerance is ± 0.010 [0.25] unless otherwise noted.

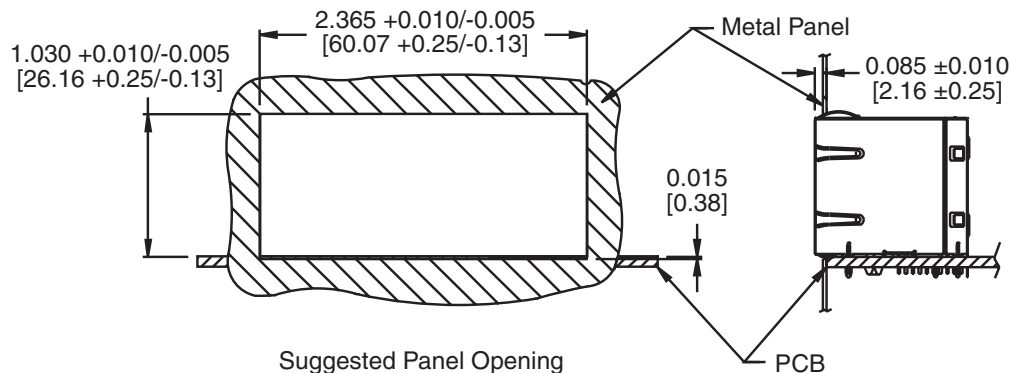
Notes

Plastic Housing	Thermoplastic, flammability rating UL 94V-0
Contacts	50 micro-inch hard gold plating
Pins	Tin-coated copper wire, DIA 0.018" [0.46]
Solderability	Per MIL Std. 202, Method 208
Metal Shield	Nickel plated copper alloy

Packing Quantity

20 pieces finished goods per tray
7 trays per carton box for a total of
140 pieces of finished goods

*Jack cavity conforms to FCC rules and regulations, part 68, subpart F.

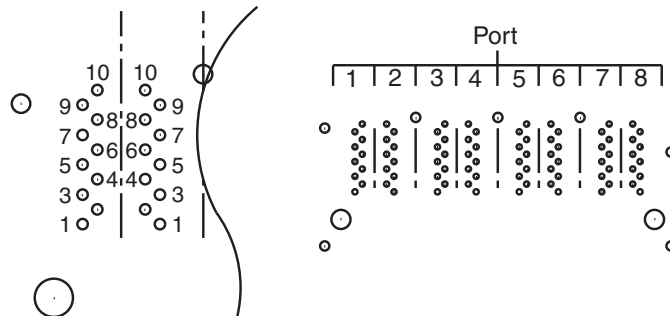
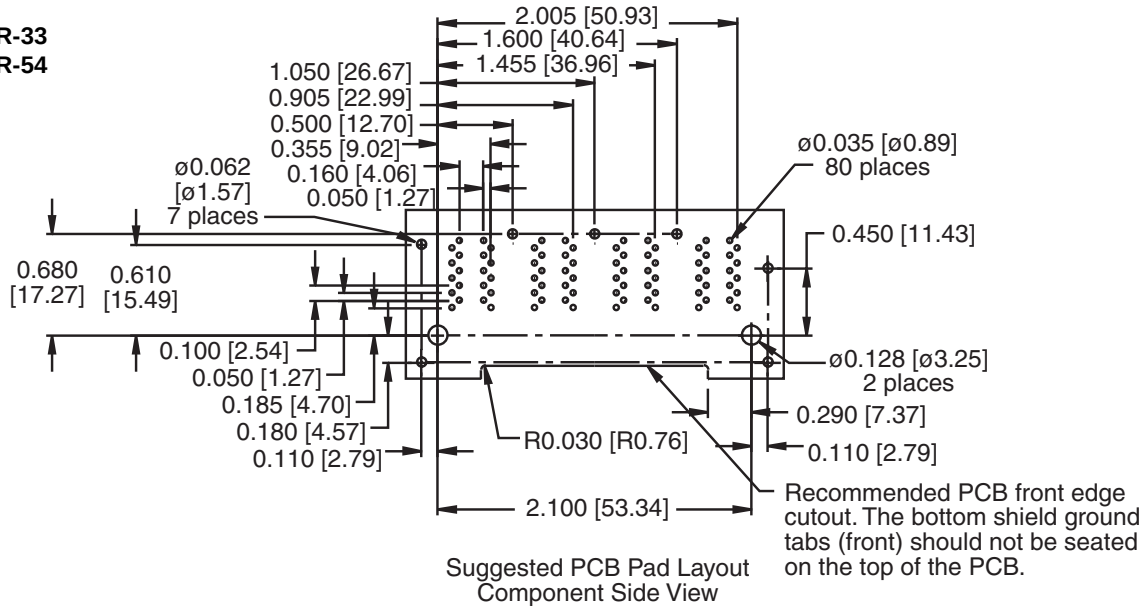


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PAD LAYOUT

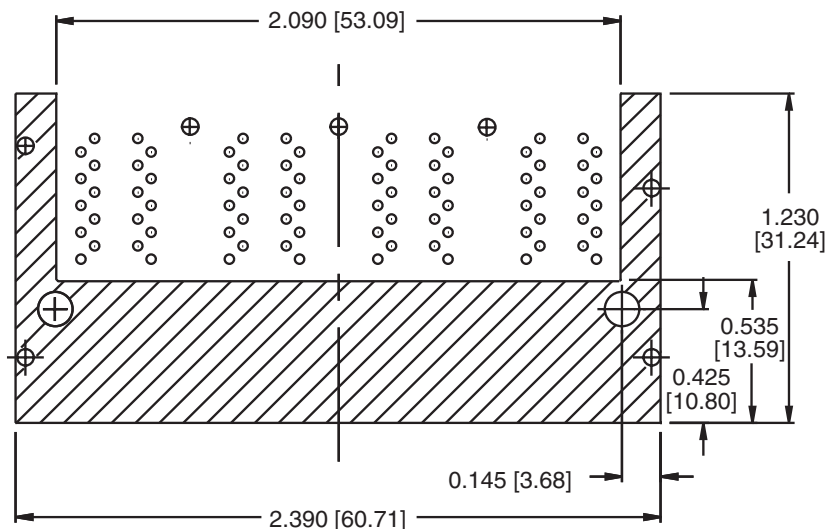
0833-2X4R-33

0833-2X4R-54



Note

The shaded area of bottom side of part may be covered by metal shield.

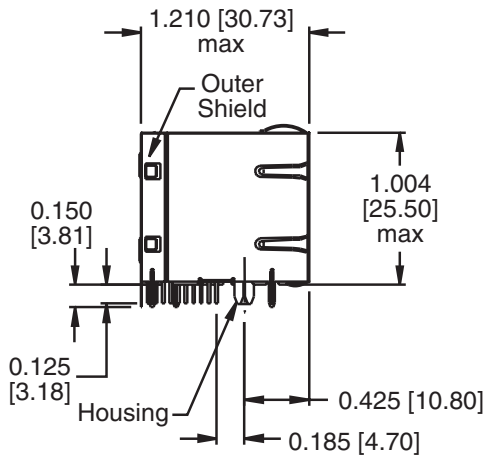


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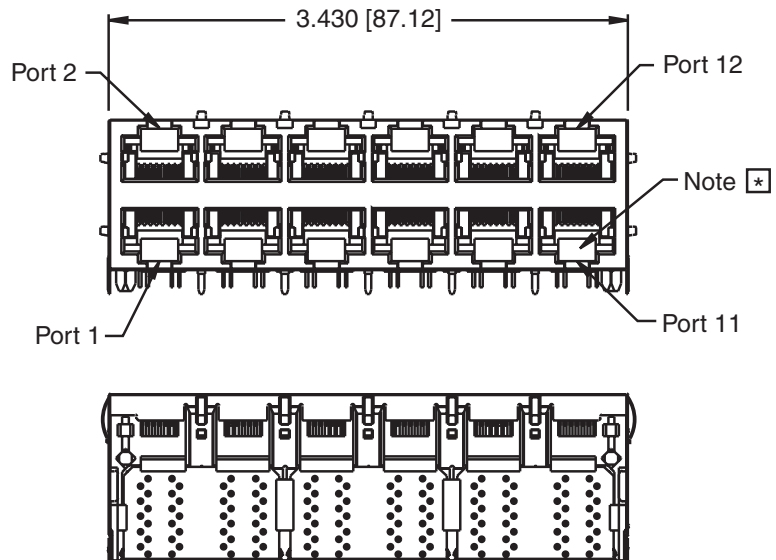
MECHANICAL

0833-2X6R-33

0833-2X6R-54



Dimensions are in inches [millimeters].
Standard dimension tolerance is ± 0.010 [0.25] unless otherwise noted.



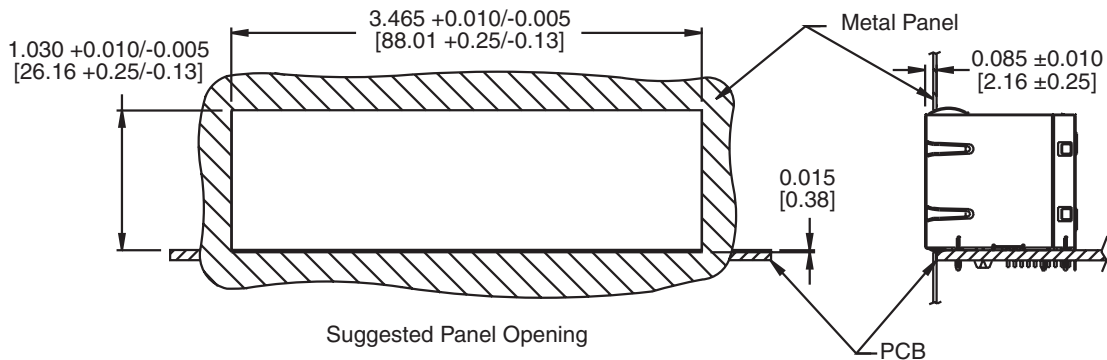
Notes

Plastic Housing	Thermoplastic, flammability rating UL 94V-0
Contacts	50 micro-inch hard gold plating
Pins	Tin-coated copper wire, DIA 0.018" [0.46]
Solderability	Per MIL Std. 202, Method 208
Metal Shield	Nickel plated copper alloy

Packing Quantity

15 pieces finished goods per tray
7 trays per carton box for a total of
105 pieces of finished goods

*Jack cavity conforms to FCC rules and regulations, part 68, subpart F.

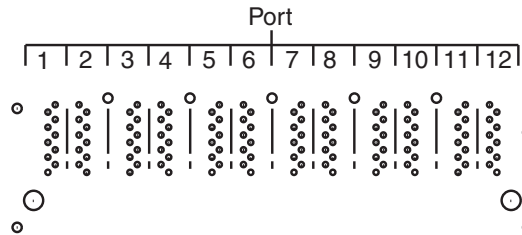
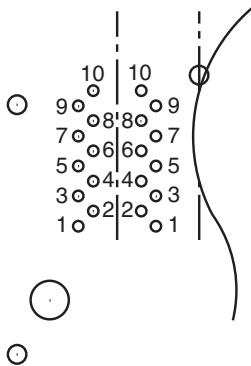
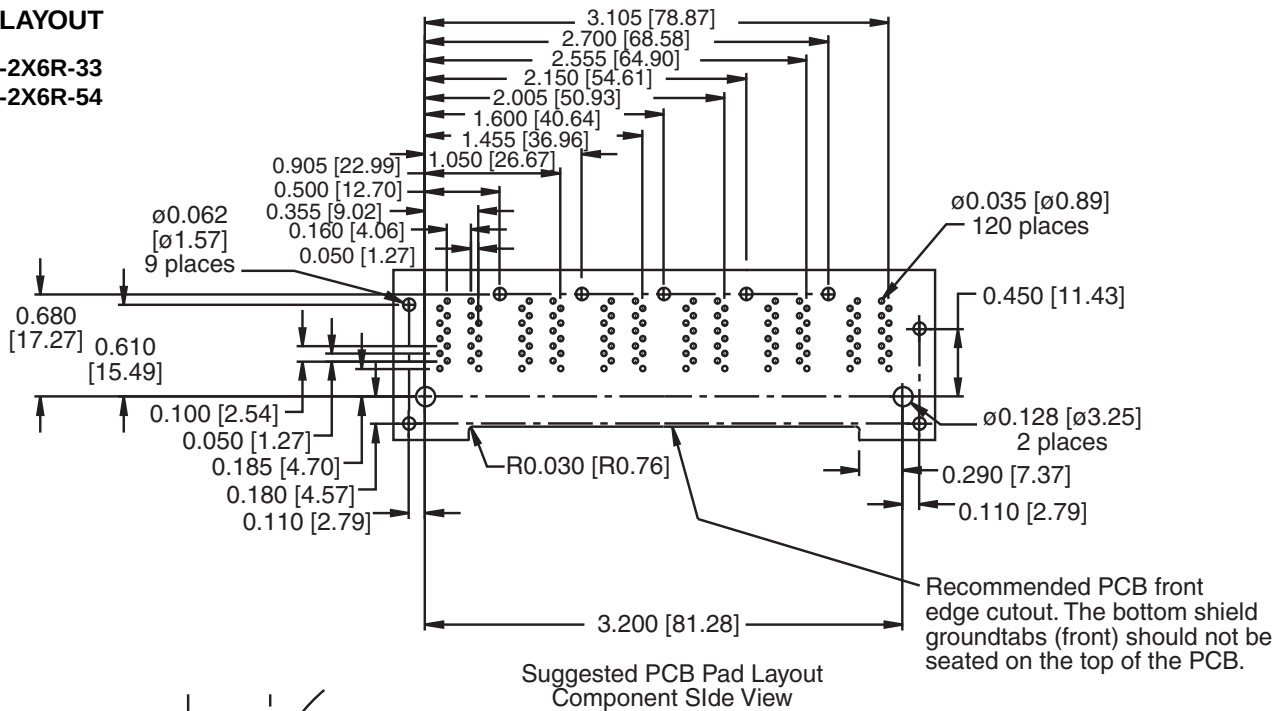


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PAD LAYOUT

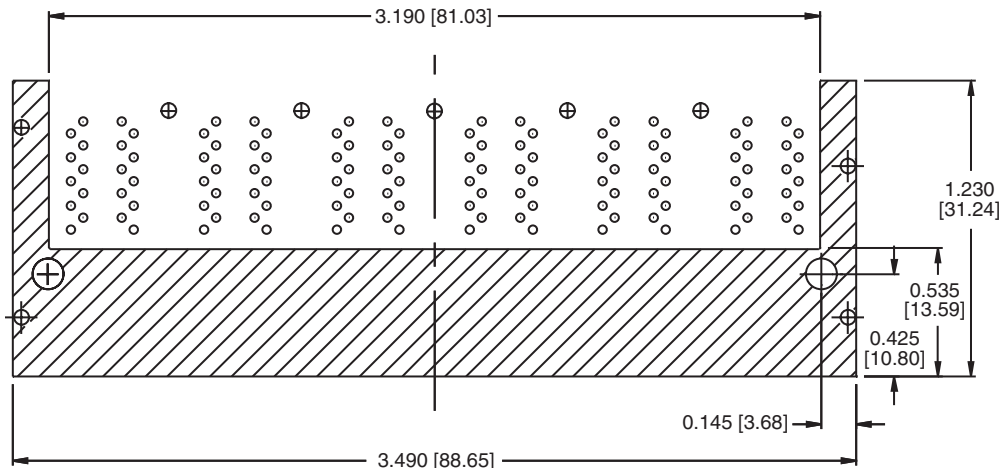
0833-2X6R-33

0833-2X6R-54



Note

The shaded area of bottom side of part may be covered by metal shield.

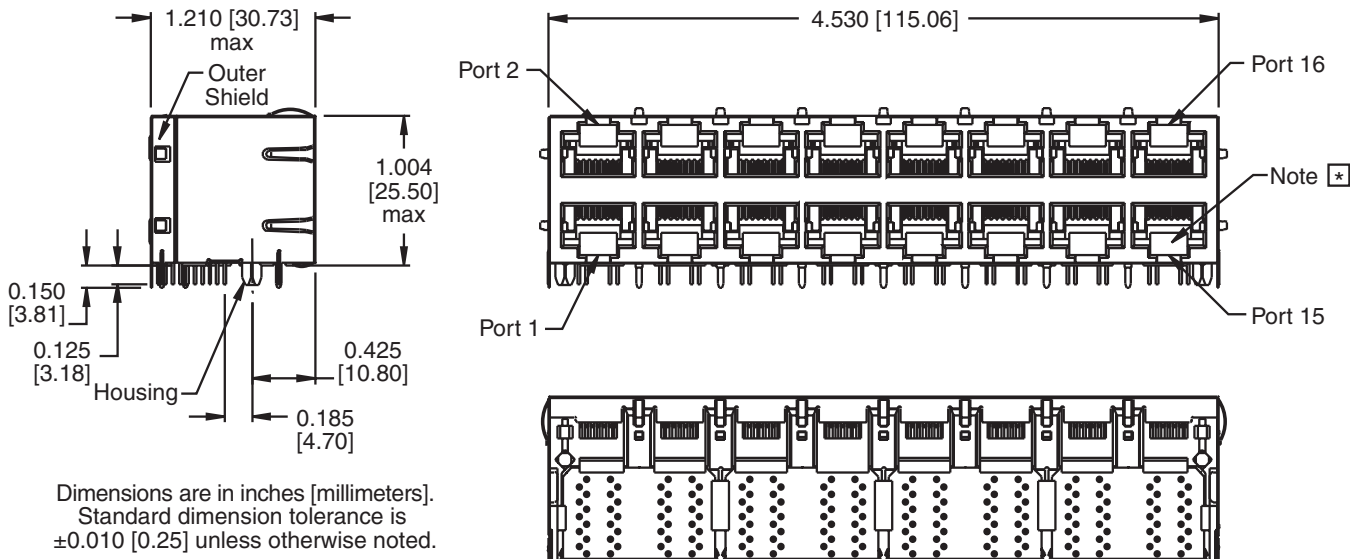


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MECHANICAL

0833-2X8R-33

0833-2X8R-54



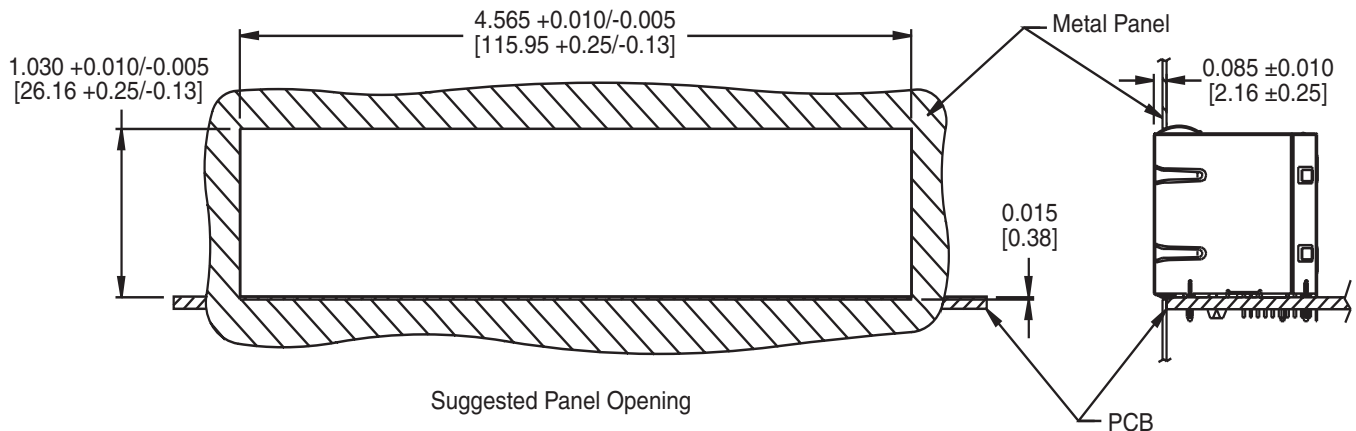
Notes

Plastic Housing	Thermoplastic, flammability rating UL 94V-0
Contacts	50 micro-inch hard gold plating
Pins	Tin-coated copper wire, DIA 0.018" [0.46]
Solderability	Per MIL Std. 202, Method 208
Metal Shield	Nickel plated copper alloy

Packing Quantity

10 pieces finished goods per tray
7 trays per carton box for a total of
70 pieces of finished goods

*Jack cavity conforms to FCC rules and regulations, part 68, subpart F.

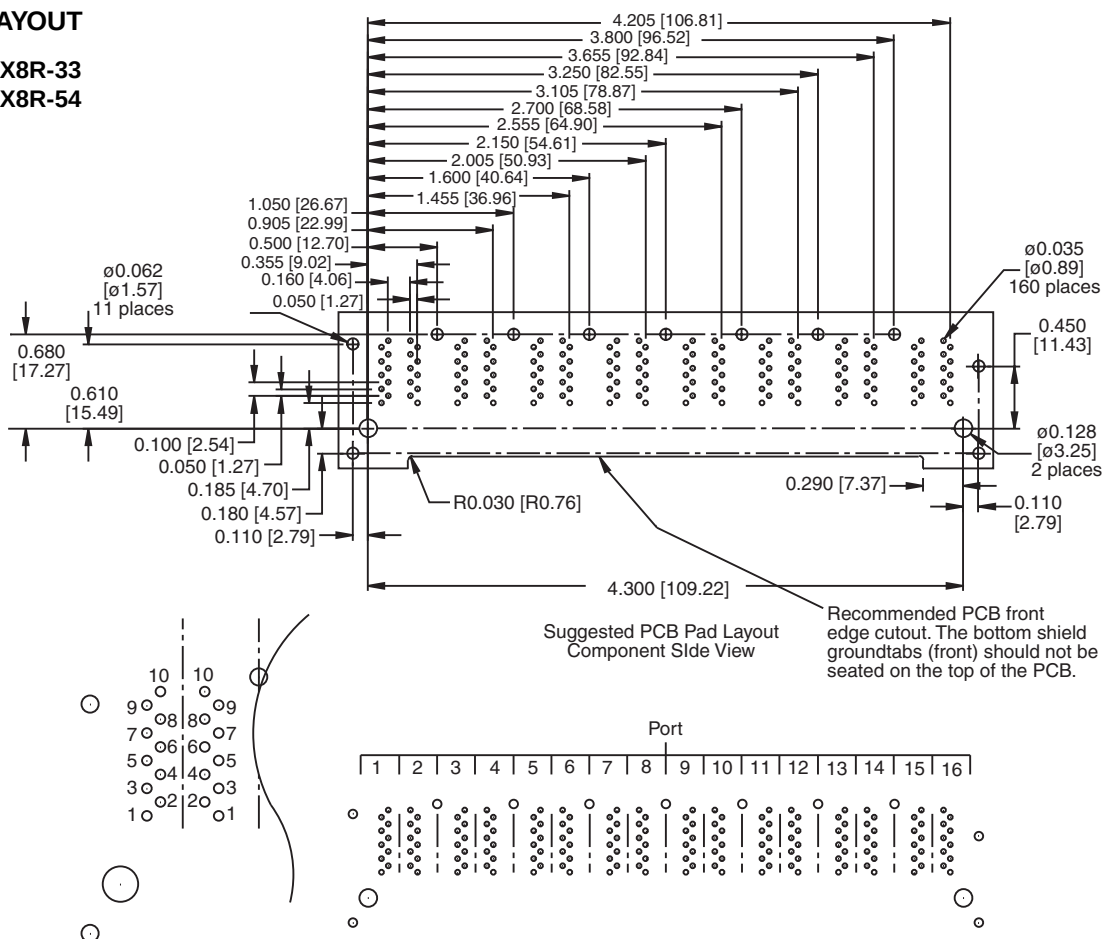


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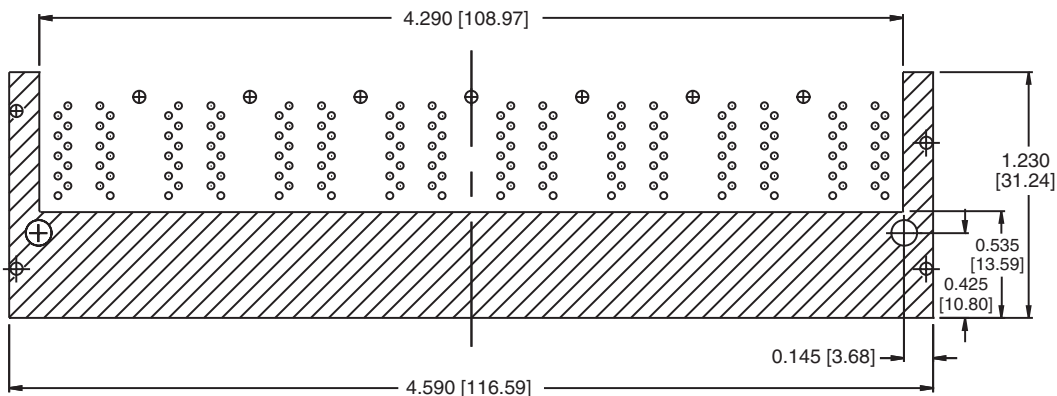
PAD LAYOUT

0833-2X8R-33
0833-2X8R-54



Note

The shaded area of bottom side of part may be covered by metal shield.



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