

INTEGRATED CONNECTOR MODULES

10/100Base-TX belMag™

bel

BM00803

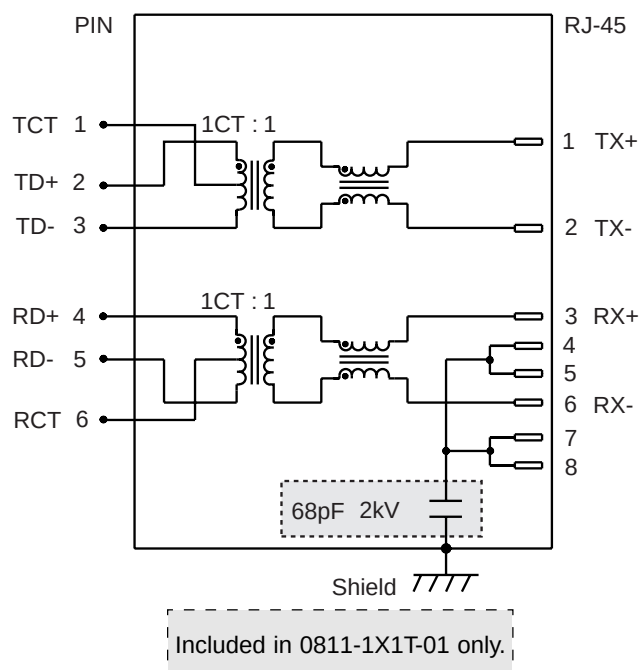
- Single port shielded RJ-45 connector with integrated 10/100 magnetics
- Compatible with a variety of 10/100 transceiver ICs
- Operating temperature 0° to +70° C
- Storage temperature -40° to +85° C
- Complies with IEEE standards and all 10/100 Ethernet specifications including 350µH with 8mA DC bias
- Integrated design conserves valuable board space
- Minimum interwinding breakdown voltage of 1500 Vrms
- Adaptable, modular design provides higher reliability
- Reduced pin count for improved crosstalk and optimum PCB trace routing

ELECTRICAL SPECIFICATIONS AT 25° C

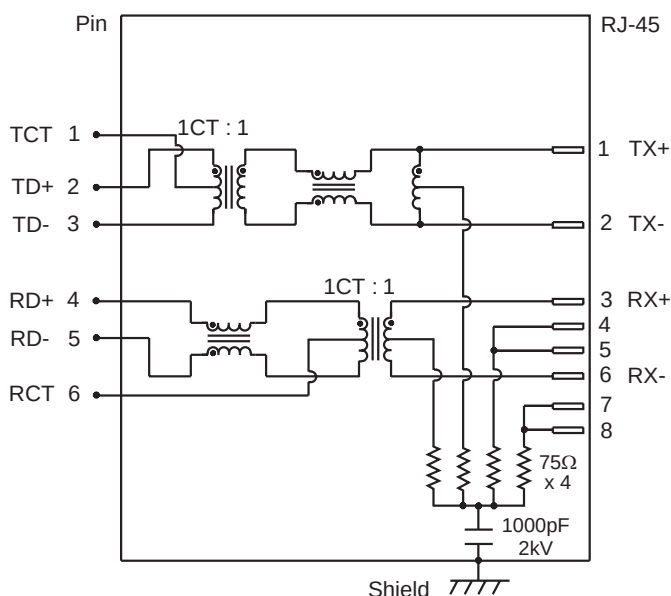
Part Number	Insertion Loss dB max	Return Loss dB min			Common to Differential Mode Rejection dB min	Common to Common Mode Rejection dB min	Crosstalk dB min			
	1MHz to 100MHz	1MHz to 30MHz	30MHz to 60MHz	60MHz to 80MHz	100kHz to 100MHz		1MHz	30MHz	60MHz	100MHz
0811-1X1T-01	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35
0811-1X1T-02	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35
0811-1X1T-03	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35

SCHEMATIC

0811-1X1T-01
0811-1X1T-02



0811-1X1T-03

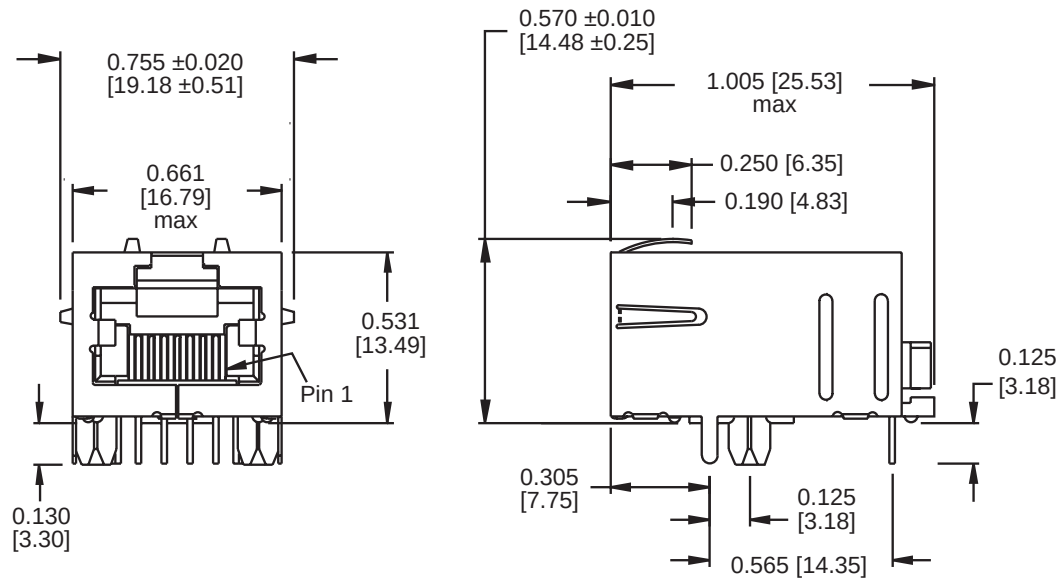


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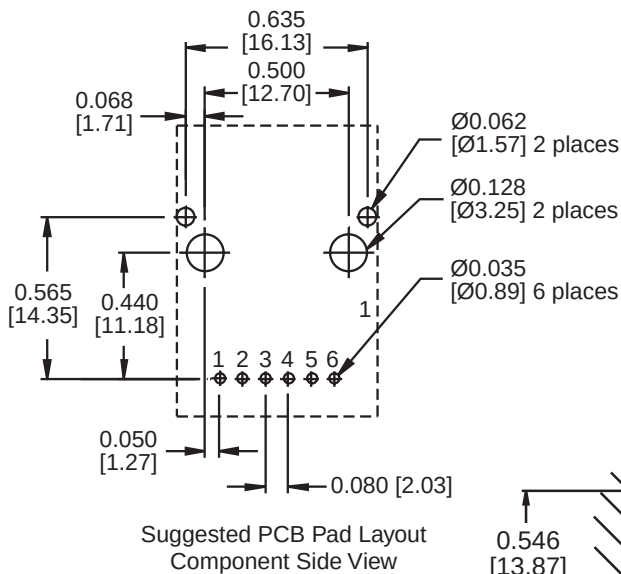
MECHANICAL

0811-1X1T-01
0811-1X1T-02
0811-1X1T-03



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

PAD LAYOUT



Suggested PCB Pad Layout
Component Side View

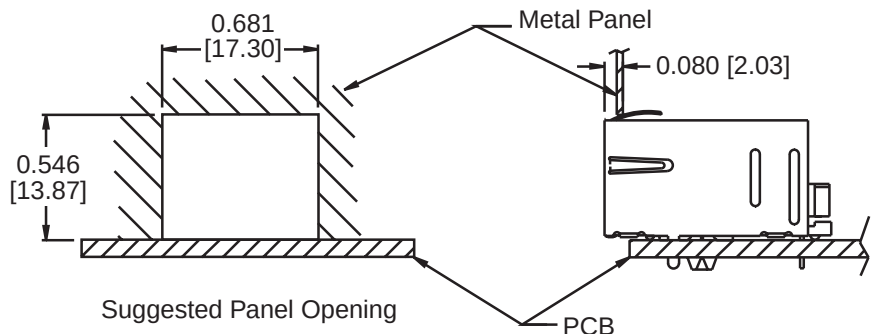
Notes

Plastic Housing
Contacts
Pins
Solderability
Metal Shield

Thermoplastic, flammability rating UL 94V-0
50 micro-inch hard gold plating
Tin-coated copper wire, DIA 0.018" [0.46]
Per MIL Std. 202, Method 208
Tin lead plated copper alloy

Available Options

- Various transformer turns ratios
- Various high voltage capacitor values



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