

INTEGRATED CONNECTOR MODULES

10Base-T belMag™

bel

BM01821

- Shielded connector with integrated 10Base-T magnetics
- Compatible with a variety of 10Base-T transceiver ICs
- Operating temperature 0° to +70° C
- Storage temperature -40° to +85° C
- Reduced pin count for improved crosstalk and optimum PCB trace routing
- Complies with IEEE 802.3 standards and all 10Base-T Ethernet standards
- Integrated design conserves valuable board space
- Minimum interwinding breakdown voltage of 1500 Vrms
- Adaptable, modular design provides higher reliability

Available Options

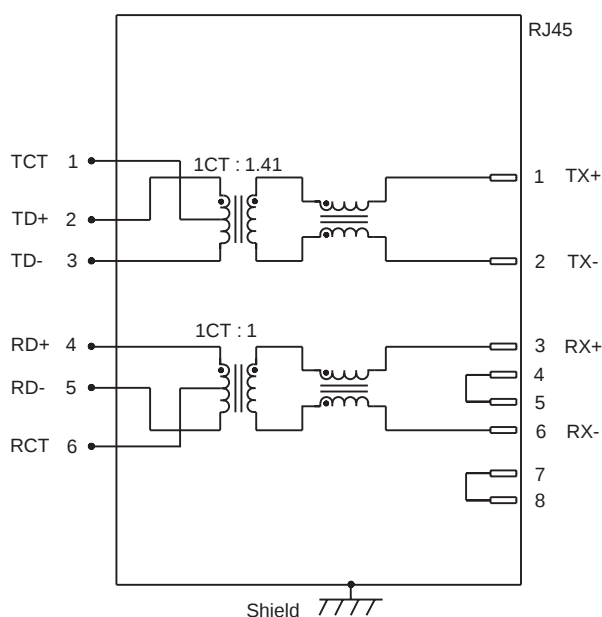
- Various transformer turns ratios

ELECTRICAL SPECIFICATIONS AT 25° C

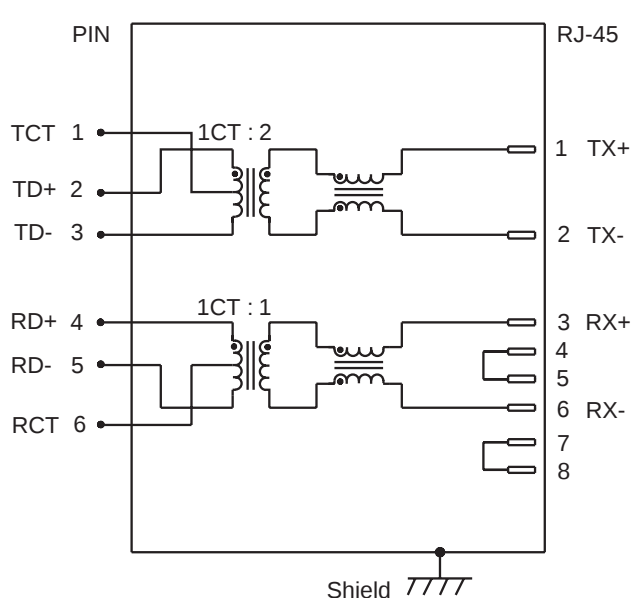
Part Number	Insertion Loss dB max	Return Loss dB min	Common to Common Mode Rejection dB min	Crosstalk dB min	OCL μH min
	1MHz to 10MHz	1MHz to 10MHz	10MHz to 30MHz	1MHz to 10MHz	
0811-1X1T-12	-1.0	-15	-40	-40	200
0811-1X1T-22	-1.0	-15	-40	-40	200

SCHEMATIC

0811-1X1T-12



0811-1X1T-22

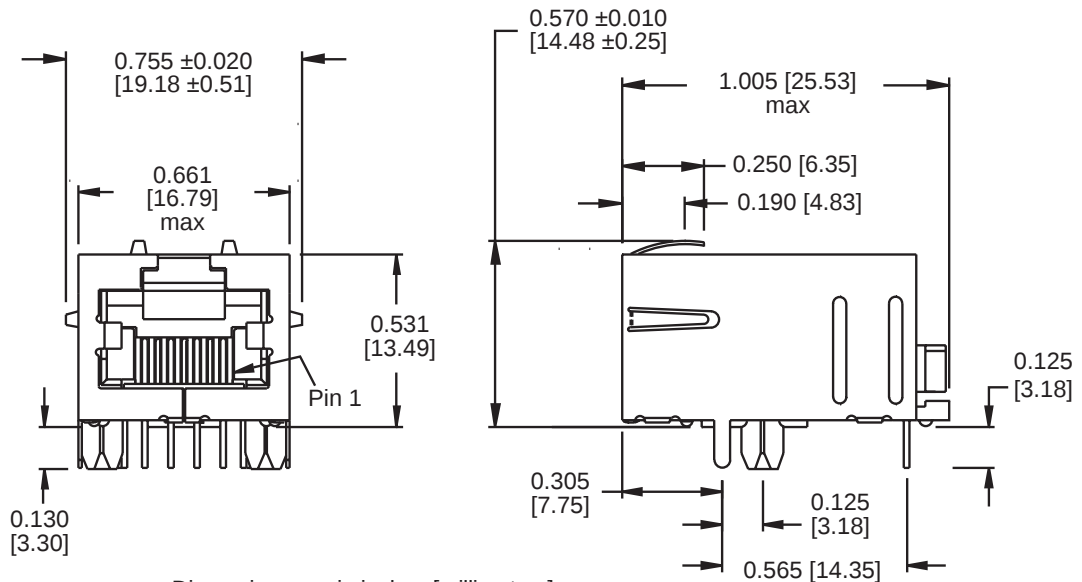


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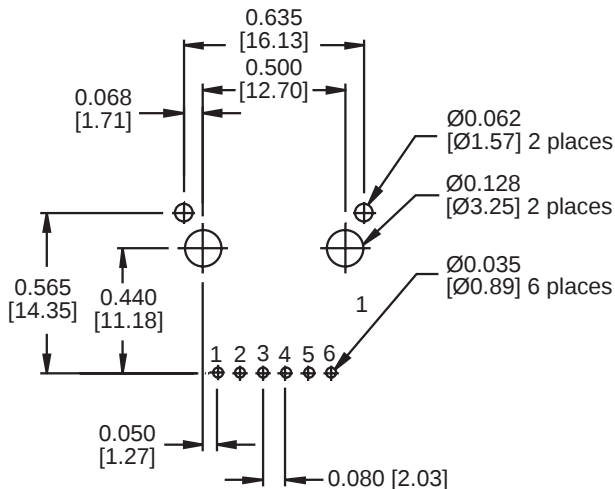
MECHANICAL

0811-1X1T-12
0811-1X1T-22



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

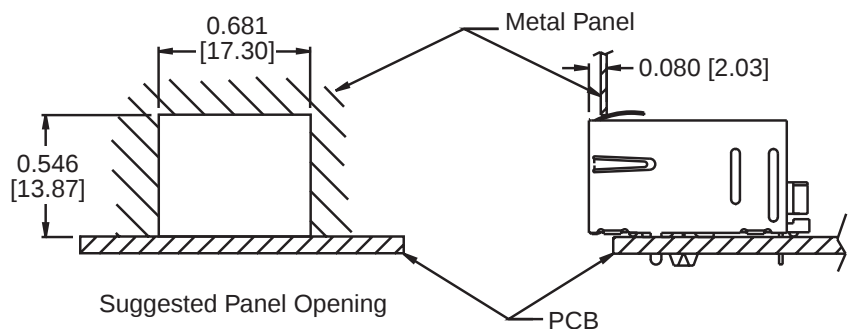
PAD LAYOUT



Suggested PCB Pad Layout
Component Side View

Notes

Plastic Housing	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	Tin lead plated copper alloy



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