

belMag™ CONNECTOR MODULES

Integrated Magnetics and RJ-45 with Status Indicators

bel

BM00801

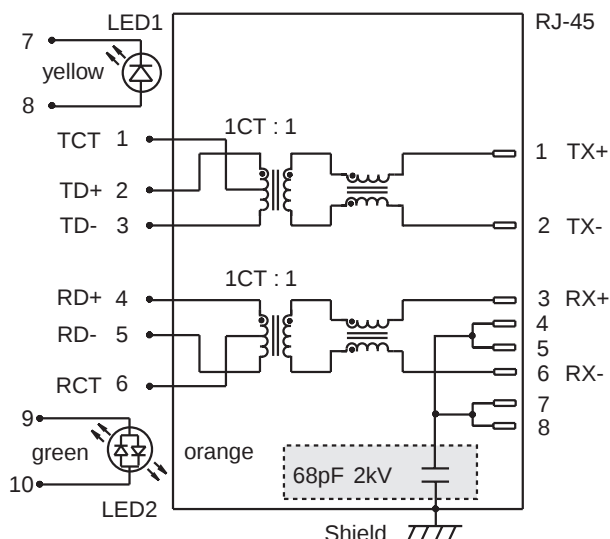
- Shielded connector with integrated 10/100 magnetics
- Reduced pin count for improved crosstalk and optimum PCB trace routing
- Complies with IEEE standards and all 10/100 Ethernet specifications
- Qualified by independent test authority (Contech Research)
- Embedded system status indicators (LEDs)
- Adaptable, modular design provides higher reliability
- Integrated design conserves valuable board space
- Compatible with a variety of 10/100 transceiver ICs
- Minimum interwinding breakdown voltage of 1500 Vrms
- Operating temperature 0° to 70° C

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
0810-1XX1-01	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35
0810-1XX1-02	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35
0810-1XX1-03	-1.0	-18	18 - 20 log (f/30MHz)	-12	40	30	-65	-45	-37	-35

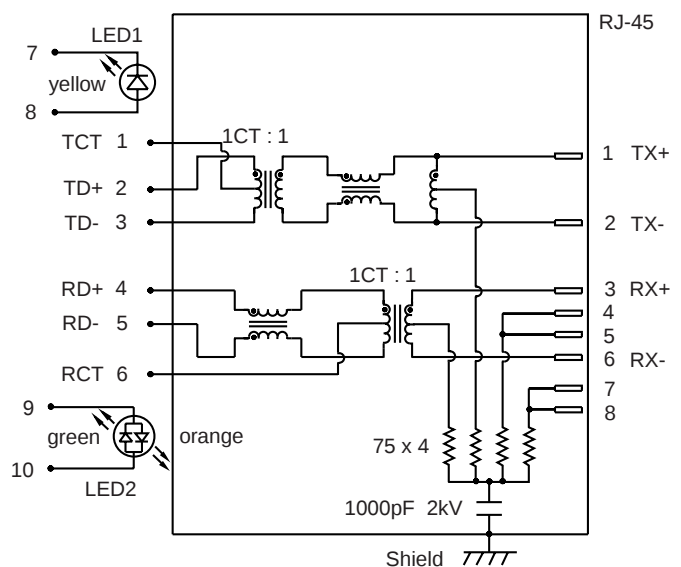
SCHEMATICS

0810-1XX1-01
0810-1XX1-02



Included in 0810-1xx1-01 only.

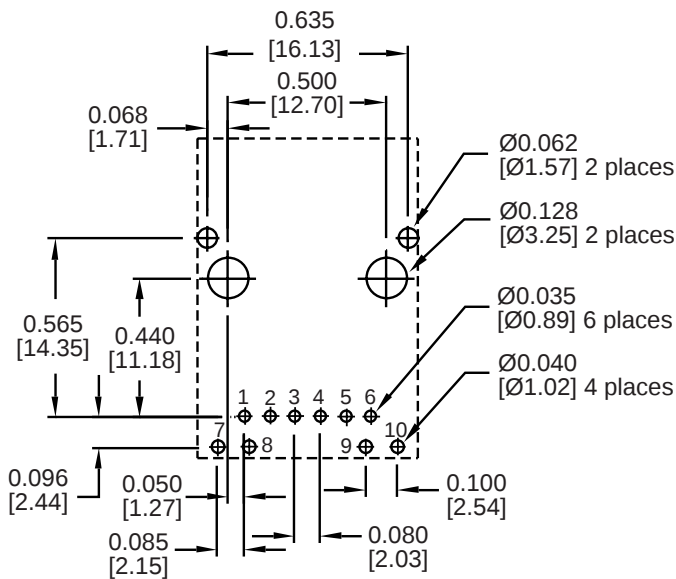
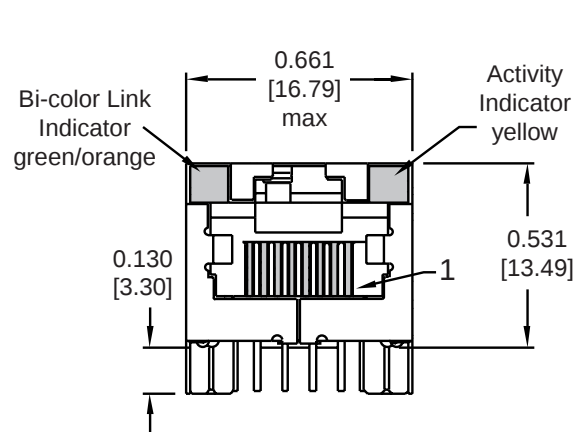
0810-1XX1-03



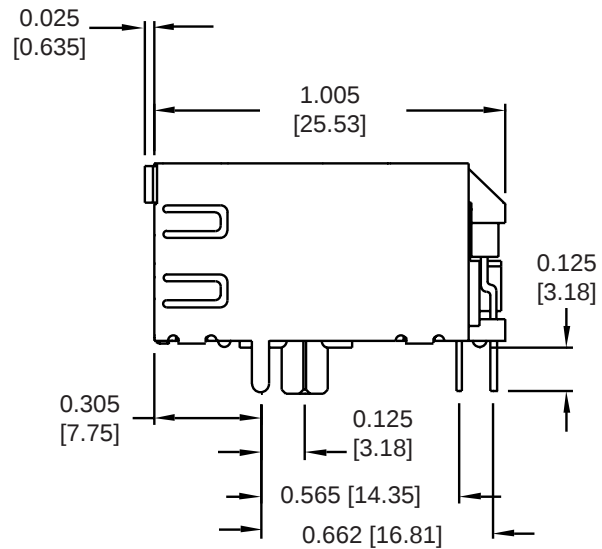
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MECHANICAL

0810-1XX1-01
0810-1XX1-02
0810-1XX1-03



Suggested PCB Pad Layout



Notes

Plastic Housing	Thermoplastic PBT Flammability rating UL 94V-0
Contacts	50 micro-inch hard gold plating with underplating of 50 micro-inch nickel
Pins	Tin-coated copper wire, dia. 0.018 inch
Solderability	Per MIL Std. 202, method 208
Metal Shield	Pre-tinned phosphor bronze, 0.01 thick

Dimensions are in inches [millimeters].

Standard dimension tolerance is ± 0.010 [0.25] unless otherwise noted.

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