

INTEGRATED CONNECTOR MODULES

10/100Base-TX Extended Temp belMag™ with LEDs

BM01808

Operating temperature -40 to 85
 Storage temperature -40 to 85
 Design supports Auto DI applications
 Single port shielded -45 connector with integrated 10/100 magnetics
 Compatible with a variety of 10/100 transceiver ICs

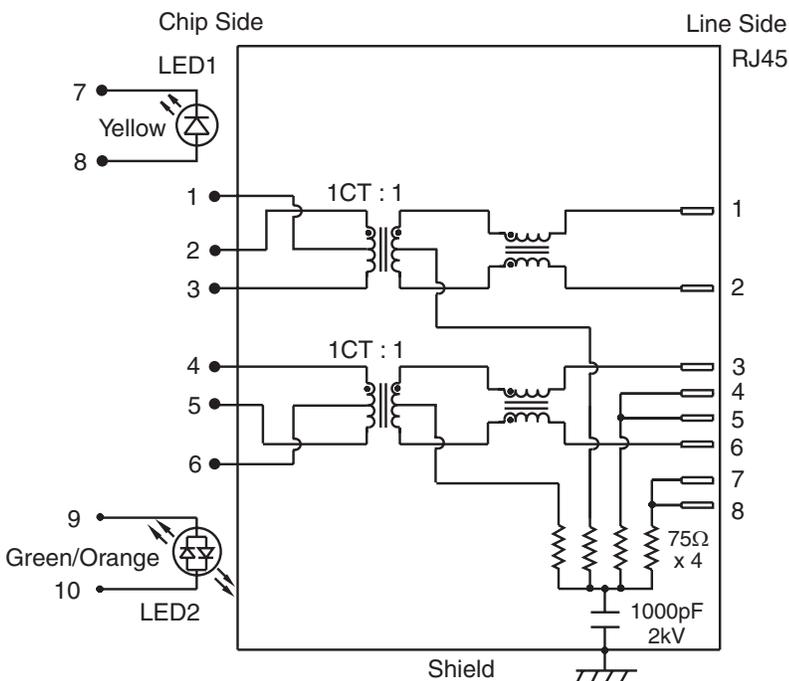
Complies with IEEE standards and all 10/100 Ethernet specifications including 350 with 8mA D-class
 Integrated design conserves valuable board space
 Minimum interwinding breakdown voltage of 1500 Vrms
 Adaptable modular design provides higher reliability
 Reduced pin count or improved crosstalk and 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	50MHz
0810-1 1 -36	-1.0	-18	18 - 20 log /30	-12	-40	-30	-70	-45	-40	-35	

SCHEMATIC

0810-1X1T-36



Available Options

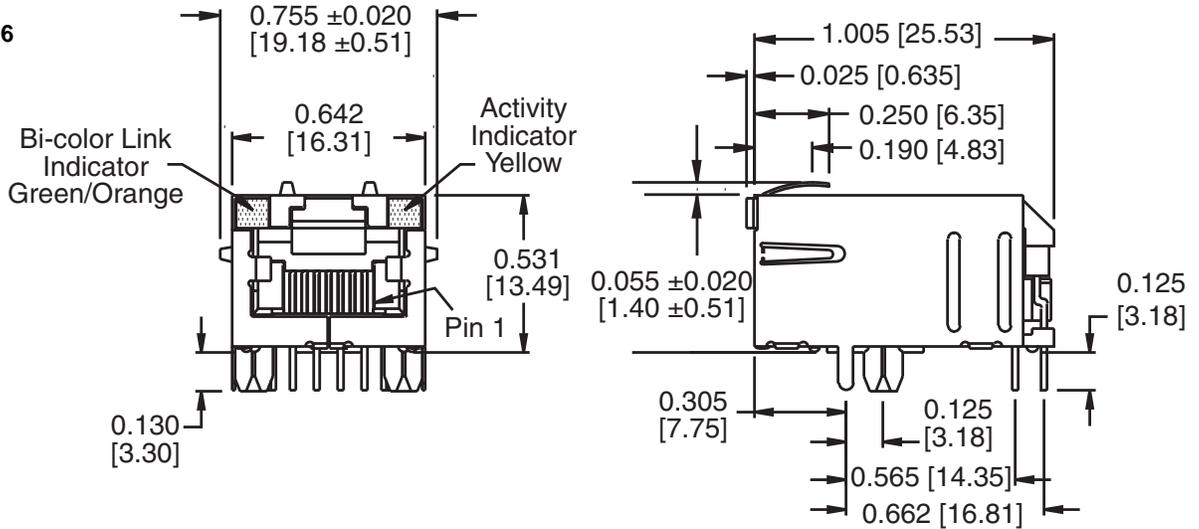
- Various transformer turns ratios
- Various high voltage capacitor values
- Various LED color combinations

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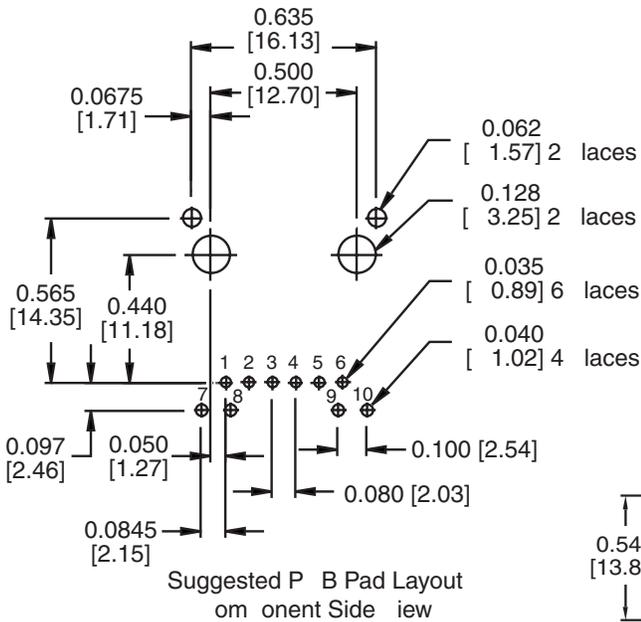
MECHANICAL

0810-1X1T-36



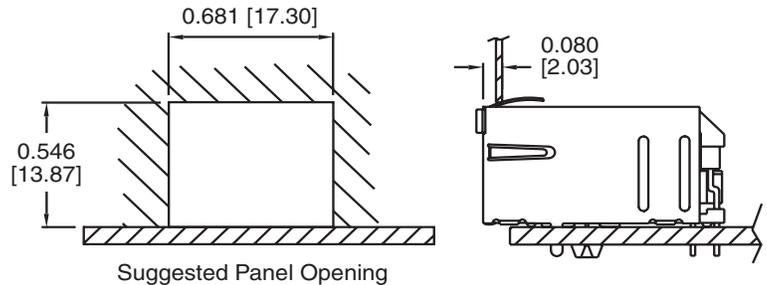
Dimensions are in inches [millimeters].
Standard dimension tolerance is ± 0.010 [0.25] unless otherwise noted.

PAD LAYOUT



Notes

- | | | | |
|-----------------|---------------------------------|---------------------|----------|
| Plastic housing | hermetic | Flammability rating | UL 94 -0 |
| Contacts | 50 micro-inch hard gold plating | | |
| Pins | tin-coated copper wire | DIA 0.018 [0.46] | |
| Solderability | Per IEC Std. 202 | Method 208 | |
| Metal Shield | in lead plated copper alloy | | |



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