

# INTEGRATED CONNECTOR MODULES

## 10Base-T Extended Temp belMag™ with LEDs

BM01825

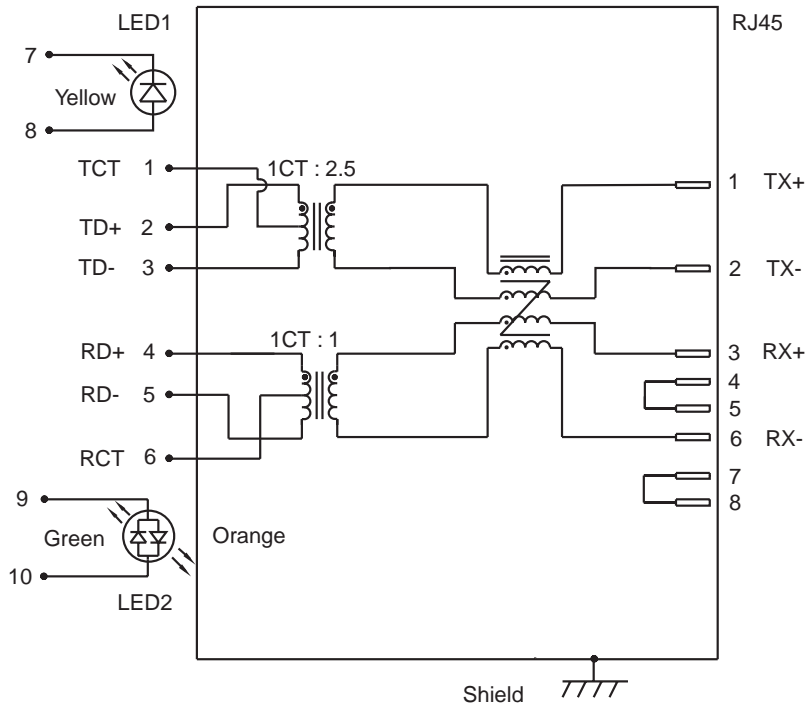
- Shielded connector with integrated 10Base-T magnetics
- Compatible with a variety of 10Base-T transceiver ICs
- Operating temperature -40° to +85° C
- Storage temperature -40° to +85° C
- Reduced pin count for improved crosstalk and optimum PCB trace routing
- Complies with IEEE 802.3 standards and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

### 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	100kHz to 100MHz	TX	RX
0810-1XX1-27	-1.0	-18	-40	-40	45	230

### SCHEMATIC

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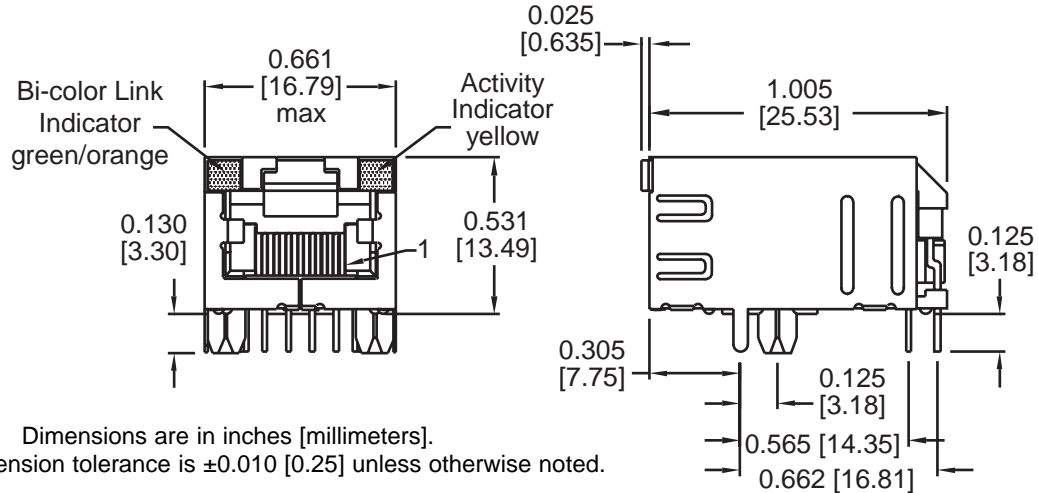
#### Available Options

- Various transformer turns ratios
- Various LED color combinations

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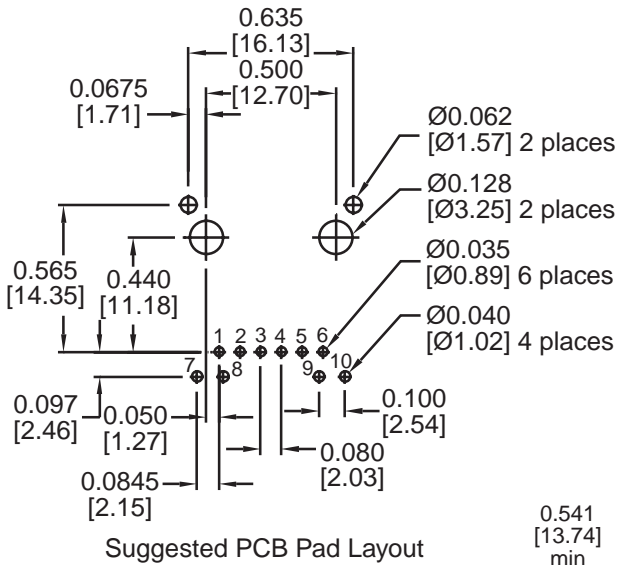
### MECHANICAL

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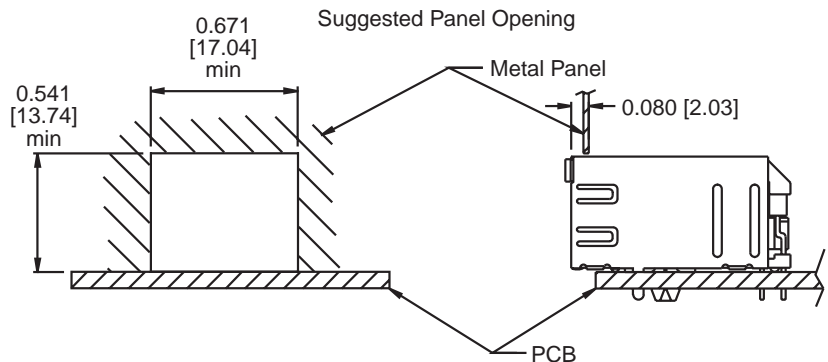
Dimensions are in inches [millimeters].  
Standard dimension tolerance is  $\pm 0.010$  [0.25] unless otherwise noted.

### PAD LAYOUT



### 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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