

INTEGRATED CONNECTOR MODULES

Gigabit belCombo™ with LEDs

BM02835

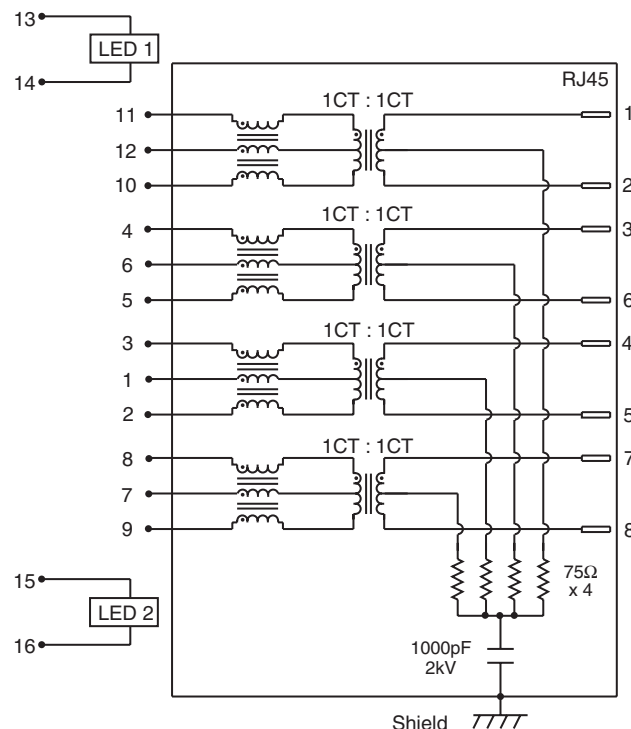
- Single port shielded RJ-45 connector with integrated Gigabit Ethernet magnetics and either dual or single USBs
- Compatible with a variety of Gigabit Ethernet transceiver ICs and 10/100Base-TX transceiver ICs
- Operating temperature 0° to +70° C
- Storage temperature -40° to +85° C
- Complies with IEEE 802.3ab standards and all Gigabit Ethernet specifications
- Integrated design conserves valuable board space
- Minimum interwinding breakdown voltage of 1500 Vrms
- Adaptable, modular design provides higher reliability

ELECTRICAL SPECIFICATIONS AT 25° C

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	Hipot Vrms min
0.1MHz to 100MHz	100MHz to 125MHz	0.5MHz to 40MHz	40MHz to 100MHz	100KHz to 100MHz	100KHz to 100MHz		
-0.8	-1.2	-18	$-12 + 20 \log (f/80 \text{ MHz})$	-35	-30	$-33 + 20 \log (f/100 \text{ MHz})$	1500

SCHEMATIC

0821-1A1T-43
 0821-1B1T-43
 0821-1C1T-43
 0821-1D1T-43
 0821-1E1T-43
 0821-1G1T-43
 0821-1K1T-43
 0821-1L1T-43
 0821-1X1T-43
 0821-1Y1T-43



See chart on page 2 for LED colors and polarity.

LED COLORS AND POLARITY

Part Number	LED 1				LED 2			
	Color		Polarity		Color		Polarity	
			Pin 13	Pin 14			Pin 15	Pin 16
0821-1A1T-43		Yellow	-	+		Green	-	+
0821-1B1T-43	Bi-color	Green	-	+	Bi-color	Green	-	+
		Orange	+	-		Orange	+	-
0821-1C1T-43	Bi-color	Green	-	+	Bi-color	Green	-	+
		Amber	+	-		Amber	+	-
0821-1D1T-43		Green	-	+		Yellow	-	+
0821-1E1T-43		Green	-	+	Bi-color	Green	-	+
						Orange	+	-
0821-1G1T-43		Green	-	+		Green	-	+
0821-1K1T-43		Green	-	+	Bi-color	Green	-	+
						Yellow	+	-
0821-1L1T-43	Bi-color	Green	-	+		Green	-	+
		Yellow	+	-				
0821-1X1T-43		Yellow	-	+	Bi-color	Green	-	+
						Orange	+	-
0821-1Y1T-43		Yellow	-	+		Yellow	-	+

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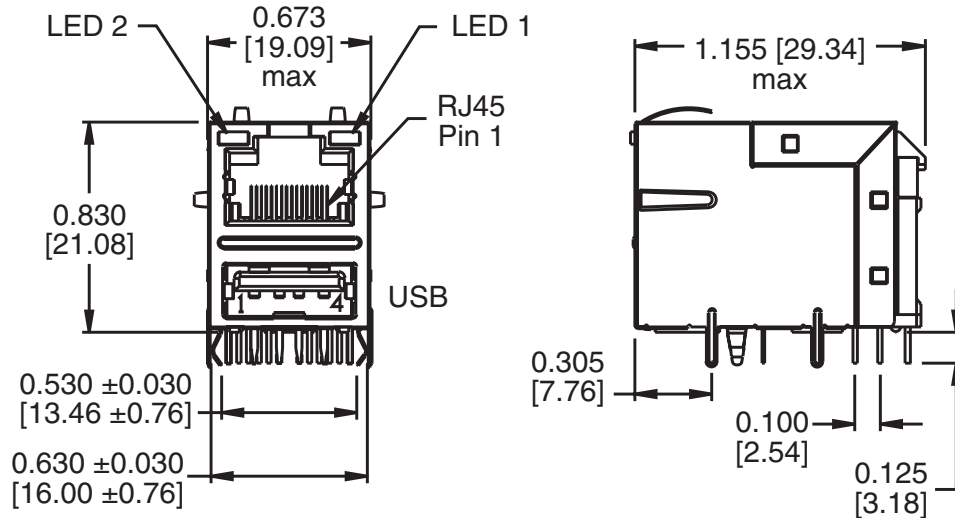
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bel

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MECHANICAL

0821-1A1T-43
0821-1B1T-43
0821-1C1T-43
0821-1D1T-43
0821-1E1T-43
0821-1G1T-43
0821-1K1T-43
0821-1L1T-43
0821-1X1T-43
0821-1Y1T-43



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

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

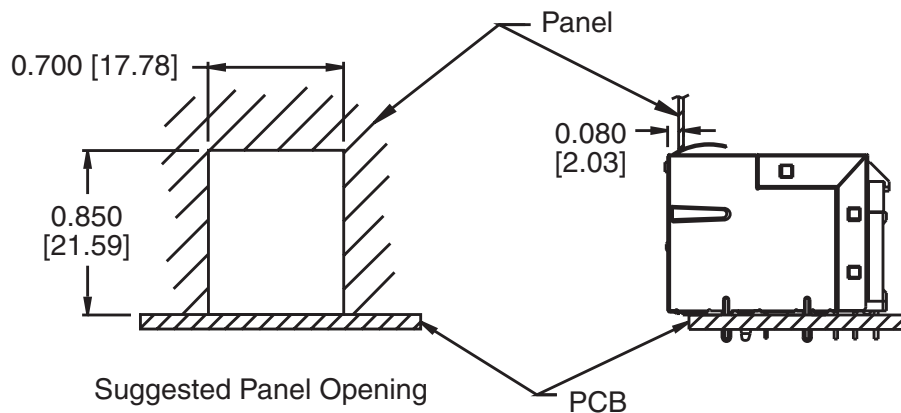
Packing Quantity

60 pieces finished goods per tray
8 trays per carton box for a total of
480 pieces of finished goods

USB

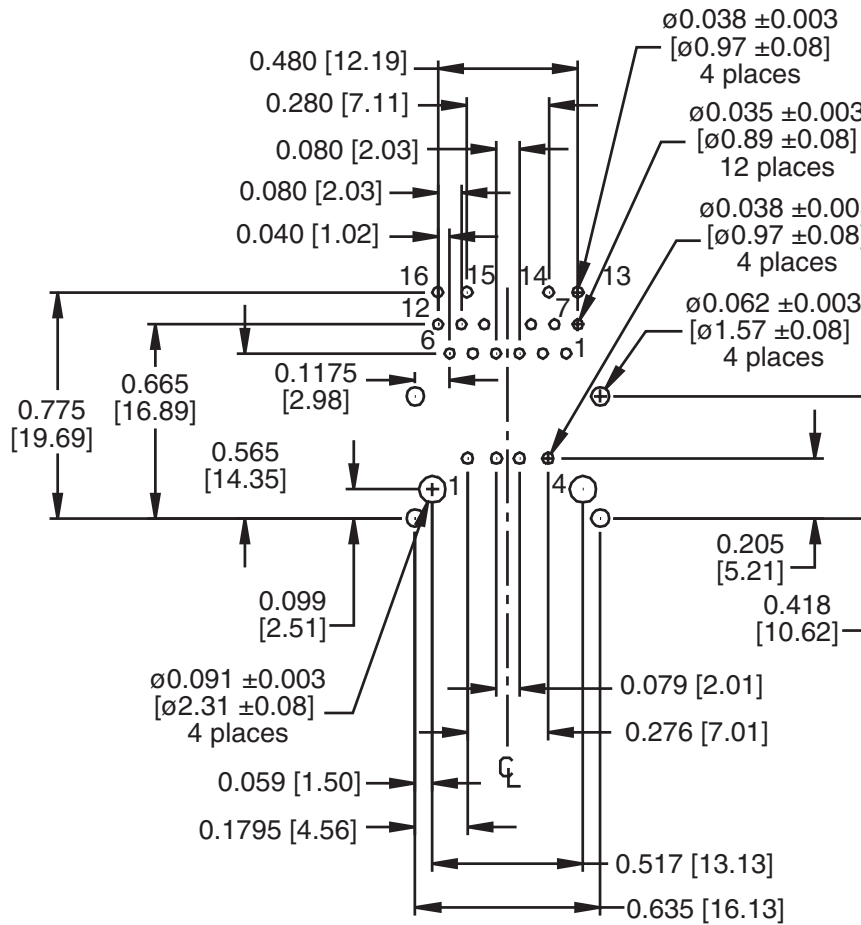
Mating Force
Unmating Force
Contacts

35 newtons maximum
10 newtons minimum
Phosphor bronze gold plating
on contact area and tin on solder tail



PAD LAYOUT

0821-1A1T-43
0821-1B1T-43
0821-1C1T-43
0821-1D1T-43
0821-1E1T-43
0821-1G1T-43
0821-1K1T-43
0821-1L1T-43
0821-1X1T-43
0821-1Y1T-43



Suggested PCB Pad Layout
Component Side View

CORPORATE

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