



10/100/1000 BASE-TX TRANSFORMER SINGLE RJ45 CONNECTOR MODULE

P/N:J1B1011JA

Feature

- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP.
- Meets or exceeds IEEE 802.3 standard for 10/100/1000Base-T.
- RoHS compliant.



Electrical Specifications @ 25°C

Part Number	Turns Ratio (±5%)		OCL (uH Min) @ 100KHz/0.1V with 8mA DC Bias	Insertion Loss (dB Max) 0.3-100MHz	Return Loss 100Ω±5Ω (dB TYP)				
	TX	RX			30MHz	40MHz	50MHz	60MHz	80MHz
J1B1011JA	1CT : 1CT	1CT : 1CT	350	-1.15	-16	-14	-13.5	-13	-10

Electrical Specifications @ 25°C

Part Number	Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)			HI-POT (Vrms)
	0.3-30MHz	30-60MHz	60-100MHz	1-30MHz	30-60MHz	60-125MHz	@60MHz/1Min
J1B1011JA	-40	-35	-30	-30	-25	-20	1500

RJ45 Durability Testing Rating & Material Specification

Part Number	Durability	Mating Force	Shield	
			Material	Finish
J1B1011JA	750 Insertions	5 lbs./2.268 kgs.	Brass	10-20m inches Nickel over 10-20m inches Brass

RJ45 Material Specification

Part Number	Contact		Housing	
	Material	Plating Area	Material	Specification
J1B1011JA	Phosphor Brass	10-20m inches Nickel over selective gold plating 6 μ inches	Thermoplastic	UL 94 V-0

* Operating temperature range: -40°C to +85°C. Storage temperature range: -40°C to +125°C.

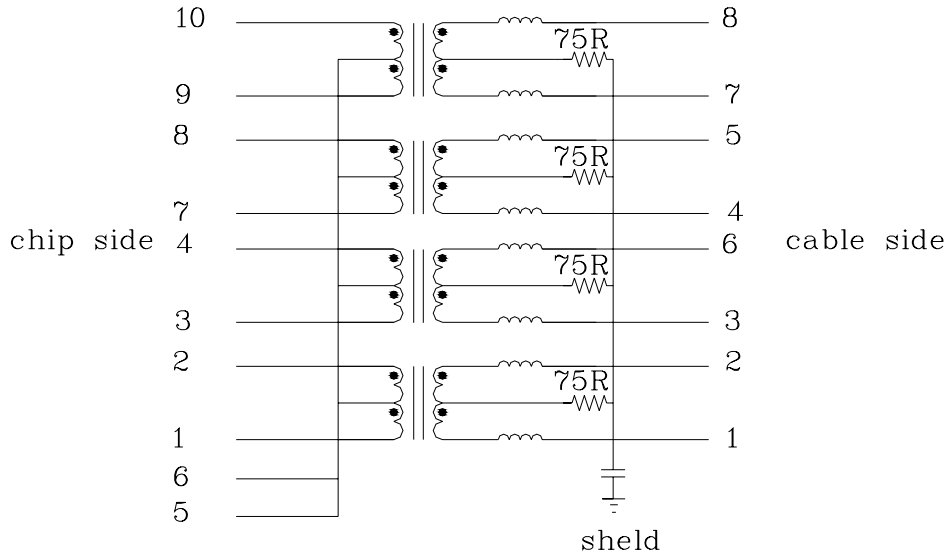
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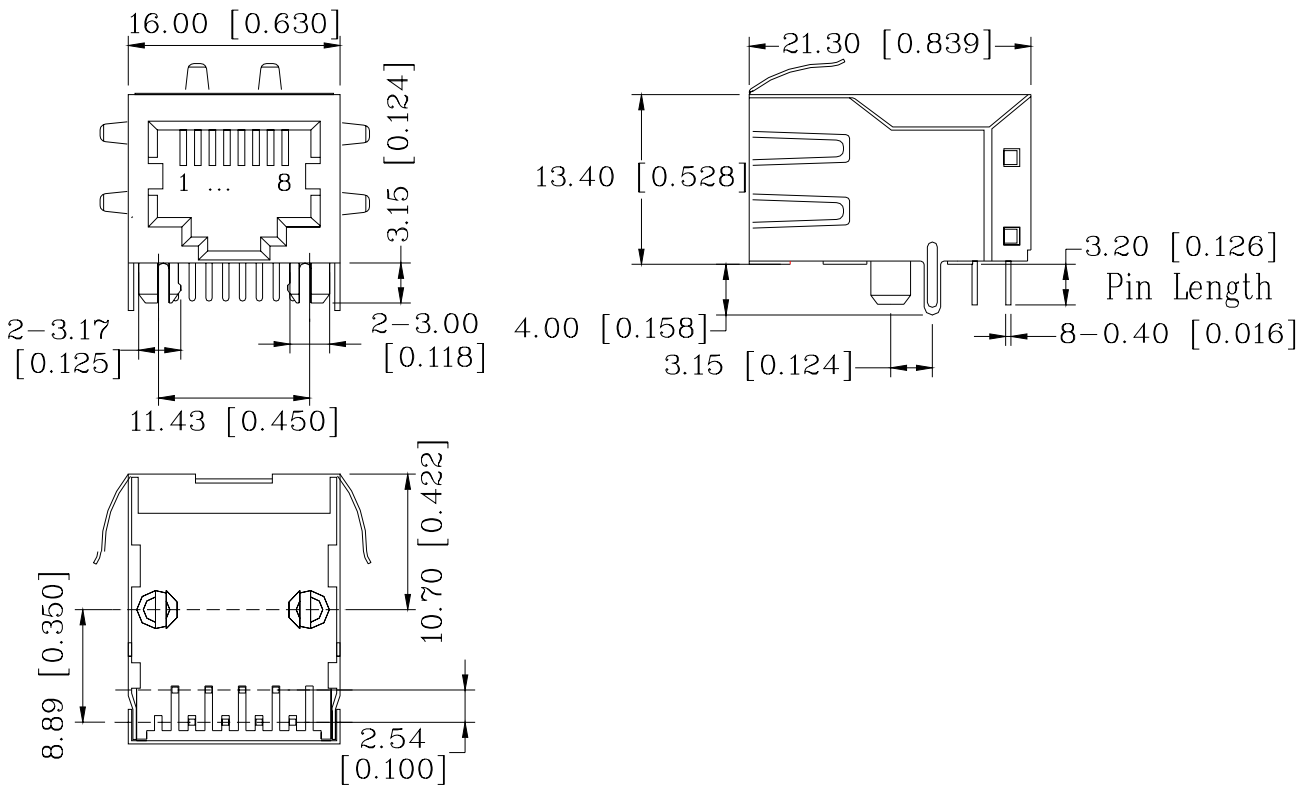
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Schematic



Mechanical



Tolerance: ± 0.25 (0.010) unless specified otherwise.

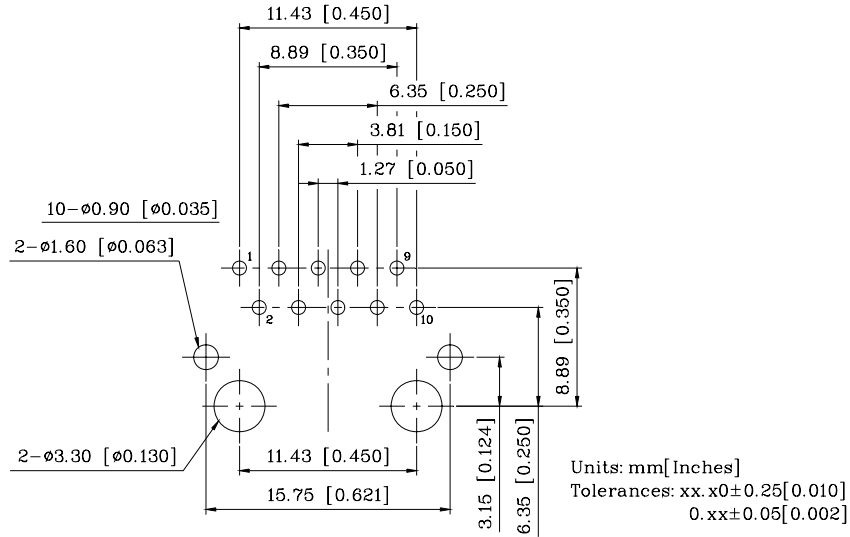
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PCB Layout Mounting Hole (Top View)



NOTE:

Datasheet Change History:

V0	2007/Feb..	Datasheet Set Up