

ARJM11E-B5754NNEWCB

21.2 x 15.9 x 13.5 mm RoHS/RoHS II Compliant MSL = 1

Features

- Single Port RJ45 with Magnetics
- Supports speed up to 10 Gbps
- Operating temperature range up to 0° C to $+70^{\circ}$ C
- Different Gold plating options
- Compatible with major IC's for Ethernet applications
- High performance magnetics for EMI suppression and common mode noise rejection
- 1CT:1CT TX and RX Transformers

Applications

- Fast and gigabit Ethernet
- Hubs, Servers, Switches, Routers, Access points
- IP cameras, surveillance, and phone
- Industrial computers and robotics
- Networking and communications
- Broadcast video
- Set top box
- Test and Measurement

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Inductance	120			μН	100 kHz, 0.1V with 8 mA DC Bias
Leakage Inductance			0.4	μН	100 kHz, 0.1V
DC Resistance			1.2	Ω	
Hi-pot	2250			VDC	60 s
Insertion Loss			3.0	dB	0.1 MHz
			2.0		1-400 MHz
Return Loss	20				1-100 MHz
	10			dB	100-300 MHz
	7.5				300-500 MHz
Crosstalk	25			dB	1-100 MHz
	15				100-500 MHz
CMR	25			dB	1-100 MHz
	20				100-500 MHz
DCR	30			dB	1-100MHz
	20				100-500 MHz
Turn Ratio		1CT:1CT			± 2%

^{*}f represents the test frequency specified in MHz



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Material Specifications

Parameter	Specification			
Housing	Material (Housing)	Glass Filled PA46, Black		
Housing	Flammability Rating	UL94V-0 (RoHS)		
	Material	Phosphor Bronze, 50-100 u" (min)		
Contact	Plating (1)	Nickel		
Condit	Plating (2)	50 u" Gold*		
Shield	Material	Brass, 0.2mm		
Jack Cavity	In conformance with the FCC Rules and Regulations Part 68 Subpart F			

^{*}For alternative Gold plating thickness, please contact ABRACON.

Environmental Specifications

Parameters	Specification		
RoHS	RoHS Compliant		
MSL	1		
Operating Temperature	0 °C to +70 °C		
Storage Temperature	-40 °C to +85 °C		



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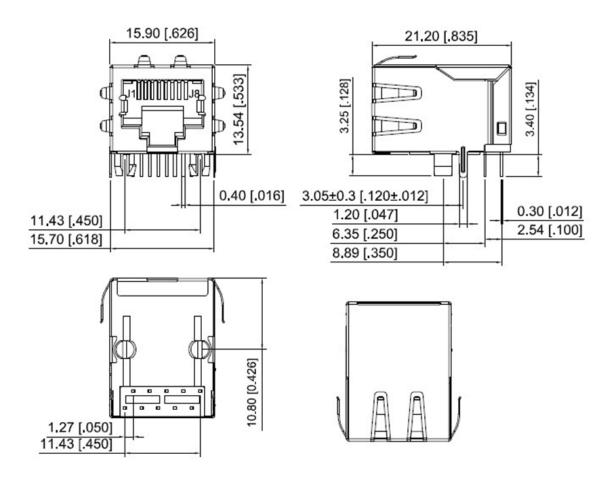


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Mechanical Dimensions

W Shield, W EMI Fingers, Tab Down



Dimensions: mm[inch] (Unless otherwise specified, all tolerances are $\pm 0.25[0.010]$)



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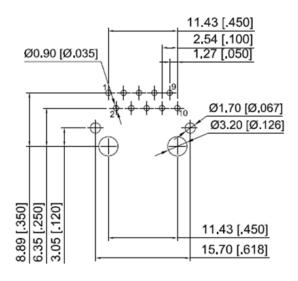


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Mechanical Dimensions

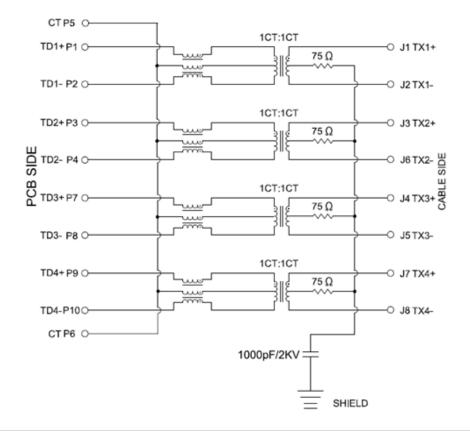
Pin Layout



Dimensions: mm[inch]

(Unless otherwise specified, all tolerances are $\pm 0.05[0.002]$)

Schematic





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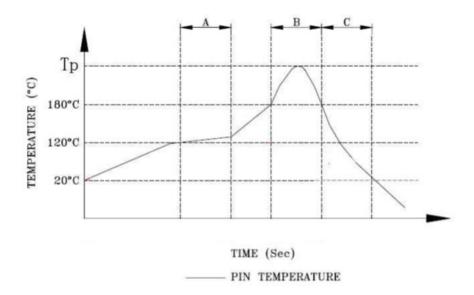
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Wave Soldering Profile



A. Preheating B. Soldering C. Gradual Cooling

Peak Temperature (Tp) = $260 \, ^{\circ}\text{C}$ (max) Peak Time (tp) = 10 s (max)

Packaging

Pieces per Carton: 2000 Bulk/Tray per Carton: 50 Pieces per Bulk/Tray: 15 Kg

Dimension of the Carton: 535 x 305 x 240 mm

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