

MSL = 1

32.6 x 16.6 x 13.5 mm

RoHS/RoHS II Compliant

ARJM11H-A1750ZADWCB

Features

- Single Port RJ45 with Magnetics
- Supports speed up to 10 Gbps
- Operating temperature range up to -40°C to +85°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

Parameters	Minimum	Typical	Maximum	Units	Notes
Inductance	200			μΗ	100 kHz, 0.1V
Leakage Inductance			0.3	μΗ	100 kHz, 0.1V
DC Resistance			1.5	Ω	
Hi-pot	1500			VDC	0.5 mA / 60 s
	1650				0.5 mA / 2 s
Insertion Loss			2.0	dB	1-400 MHz
Return Loss	22			dB	1-40 MHz
	17- 18.27*log(f*/100)				40-500 MHz
Crosstalk	30			dB	1-100 MHz
	20				100-500 MHz
CMR	30			dB	1-250 MHz
	22				250-500 MHz
Turn Ratio		1CT:1CT			± 3 %

Electrical Specifications

*f represents the test frequency specified in MHz



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Material Specifications

Parameter	Specifica	Image		
	Material (Housing)	Nylon 66, Black		
Housing	Material (Plug into housing)	PBT +30%GF		
	Flammability Rating	UL94V-0	Insert Housing Shield	
Insert	Material	QSn6.5-0.1, 0.35 mm		
	Plating (1)	Nickel		
	Plating (2)	100% Sn		
	Plating (3)	50 u" Gold*		
Contact	Material	QSn6.5-0.1, 0.35 mm		
	Plating (1)	Nickel		
	Plating (2)	100 % Sn		
Shield	Material	Brass H65Y		
Sillela	Plating	Nickel	Flug into Housing	

*For alternative Gold plating thickness, please contact ABRACON.

Environmental Specifications

Parameters	Specification		
RoHS	RoHS Compliant		
MSL	1		
Operating Temperature	-40 to +85 °C		
Storage Temperature	-40 to +85 °C		
Operating Life	750 cycles (min)		



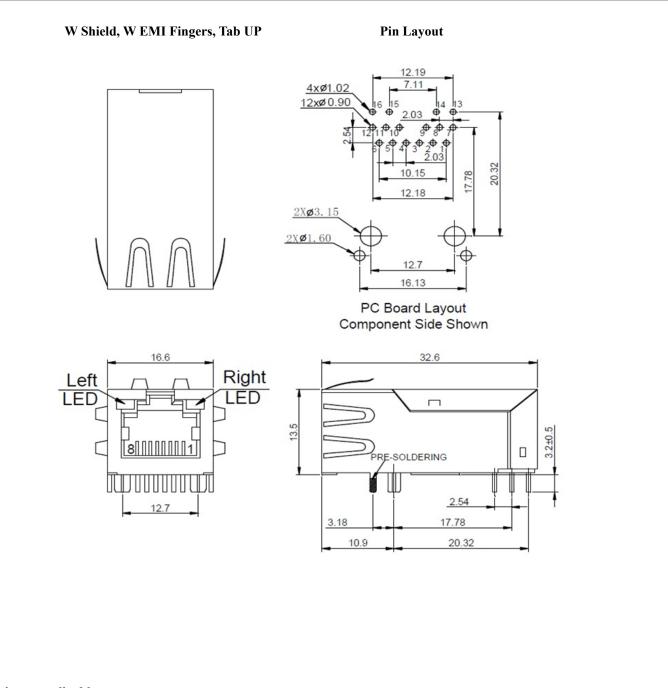
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RJ45 Single Port 10GBase-T Magnetic Module

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Mechanical Dimensions



Dimensions: mm[inch] (Unless otherwise specified, all tolerances are ±0.25)



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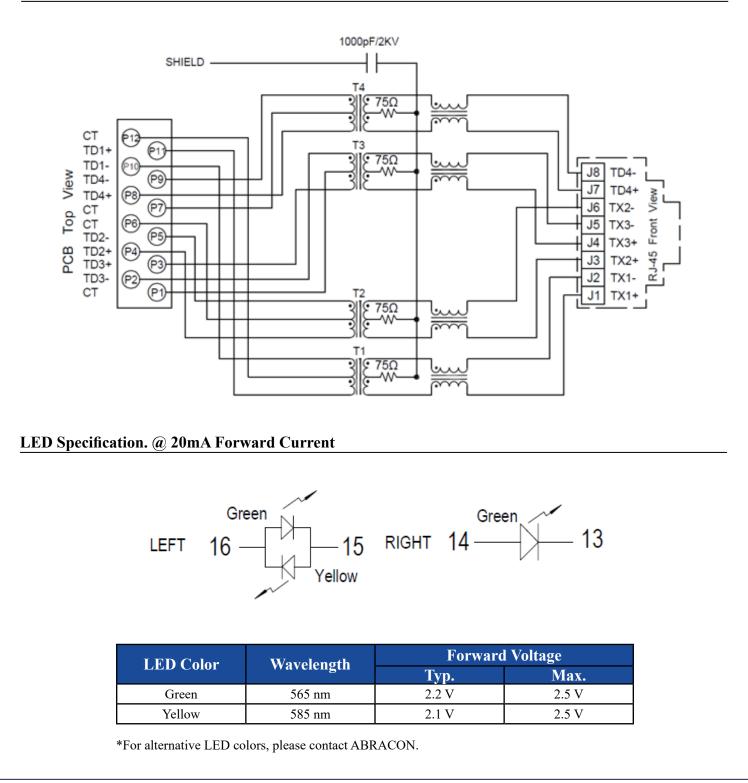
RoHS/RoHS II Compliant

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Schematic





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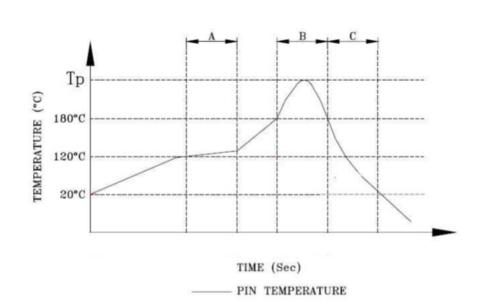
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RJ45 Single Port 10GBase-T Magnetic Module

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Wave Soldering Profile



A. Preheating B. Soldering C. Gradual Cooling

Peak Temperature (Tp) = $250^{\circ}C \pm 10^{\circ}C$ Peak Time (tp) = 5 s (max)

Packaging

Pieces per Carton : 840 Bulk/Tray per Carton : 14 Pieces per Bulk/Tray: 60 Dimension of the Carton: 310 x 240 x 150 mm

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