

RJ45 Multiport UPOE/ POE++ 10GBase-T Magnetic Module



ARJM26A-J4753NNEWCB



32.6 x 16.6 x 13.5 mm
RoHS/RoHS II Compliant
MSL = 1

Features

- 12 port RJ45 with Magnetics
- Supports speed up to 10 Gbps
- Supports POE++/UPOE up to 720 mA
- Operating temperature range up to 0°C to +70°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			μH	100 kHz, 0.1V with 15 mA DC Bias
Leakage Inductance				0.4	μH	100 kHz, 0.1V
DC Resistance				1.0	Ω	
Hipot		2250			VDC	60 s
Insertion Loss				1.5	dB	0.1-1 MHz
				0.5		1-65 MHz
				0.8		65-125 MHz
				2.2		125-400 MHz
				3.5		400-500 MHz
Return Loss		22			dB	1-100 MHz
		22-20.75log(f*/100)				100-200 MHz
		10				300 MHz
		7.5				400 MHz
		5				500 MHz
Crosstalk	Adjacent Channels	30			dB	1-100 MHz
		26				100-500 MHz
	Port to Port	50				1-100 MHz
		50				100-500 MHz
CMR		30			dB	1-100 MHz
		25				100-300 MHz
		20				300-500 MHz
DCR		35			dB	1-100MHz
		30				100-300 MHz
		25				300-500 MHz
DC Current				720	mA	
Voltage Rating			57		VDC	Continuous
Power				60	W	

*f represents the test frequency specified in MHz



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Material Specifications

Parameter	Specification	
Housing	Material (Housing)	Glass Filled PA9T, Black
	Flammability Rating	UL94V-0 (RoHS)
Contact	Material	Phosphor Bronze, 50-100 u" (min)
	Plating (1)	Nickel
	Plating (2)	50 u" Gold*
Shield	Material	Copper Alloy, 0.2mm
Jack Cavity	In conformance with the FCC Rules and Regulations Part 68 Subpart F	
Turns Ratio	1CT : 1CT ($\pm 2\%$)	

*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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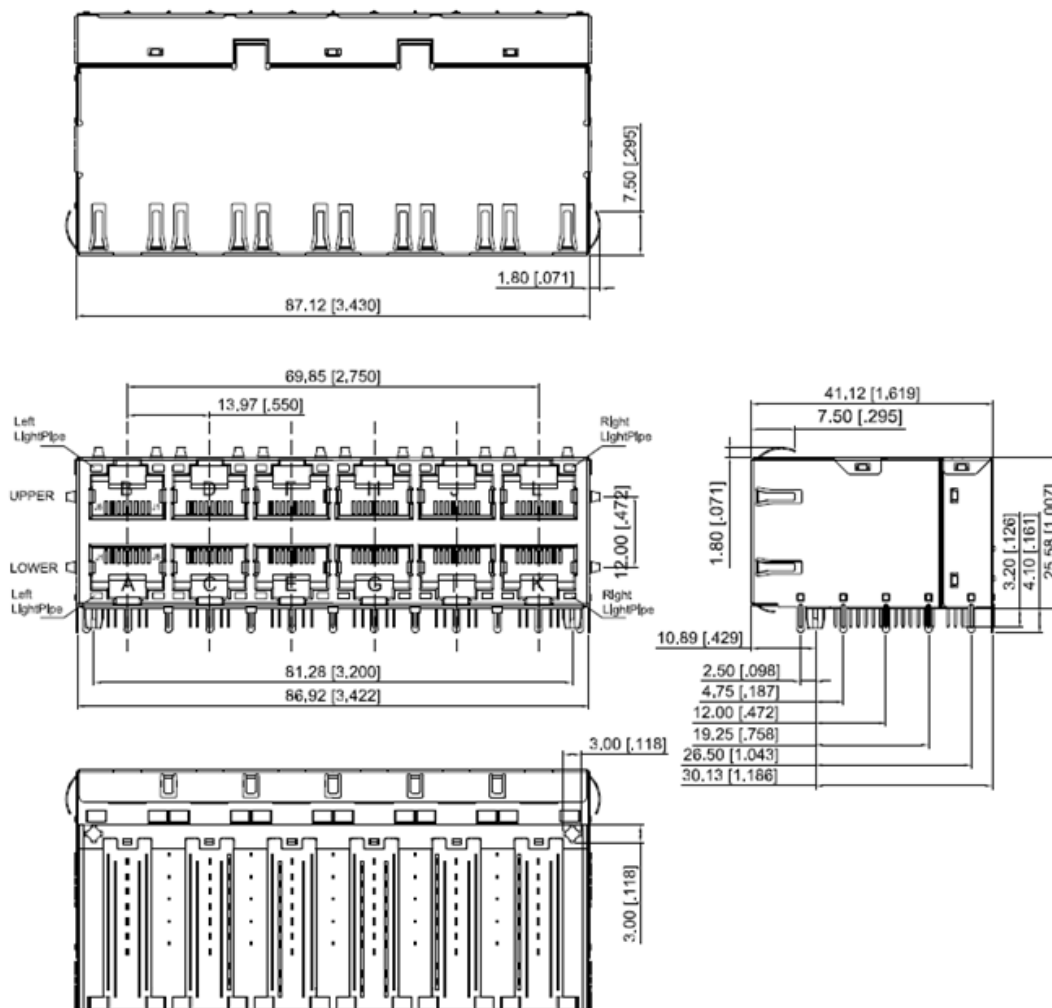
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Mechanical Dimensions

W Shield, W EMI Fingers, Tab Up/Down



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



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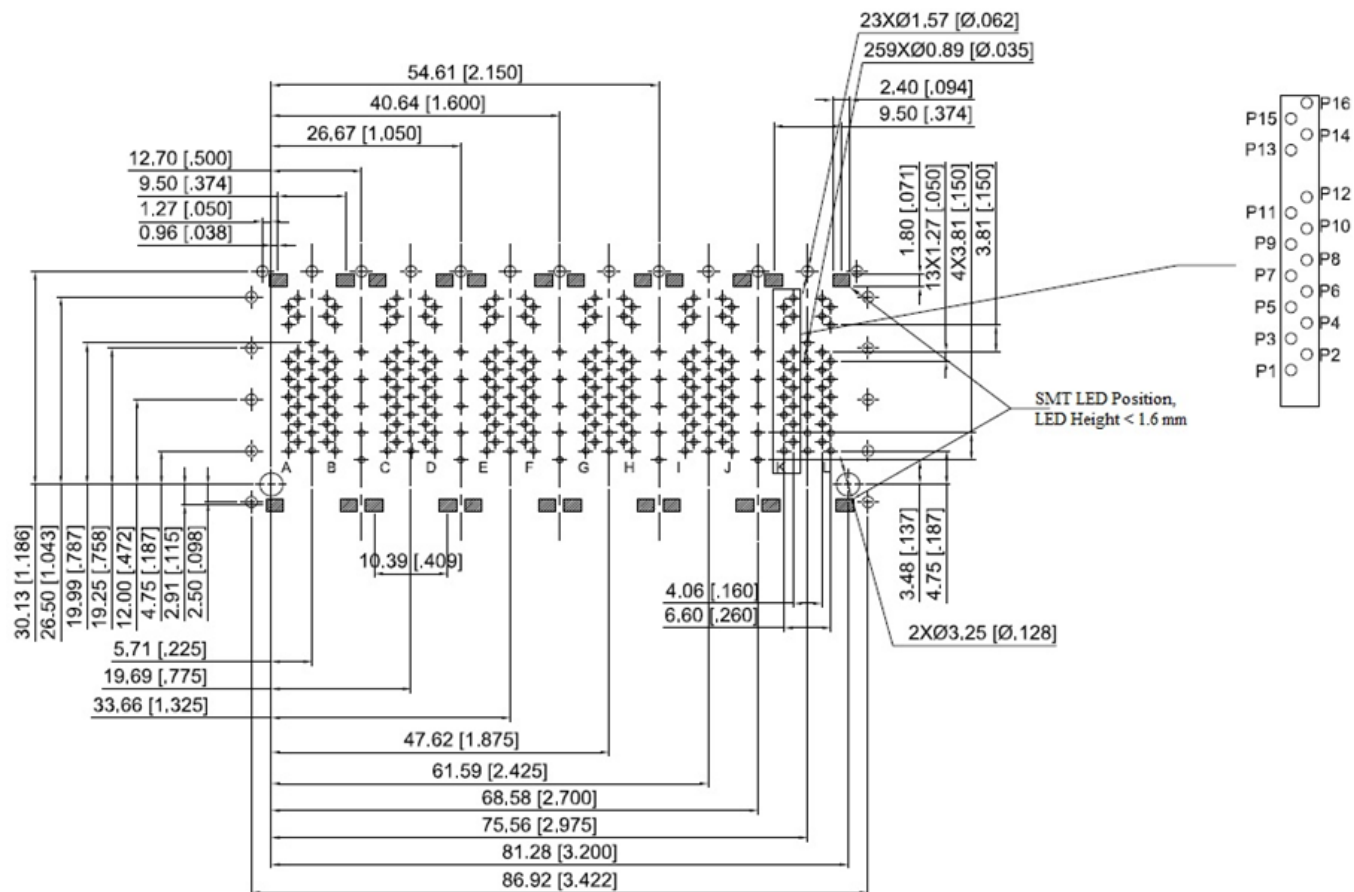


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Recommended Landing Pattern



Dimensions: mm[inch]

(Unless otherwise specified, all tolerances are ± 0.05 [0.002])



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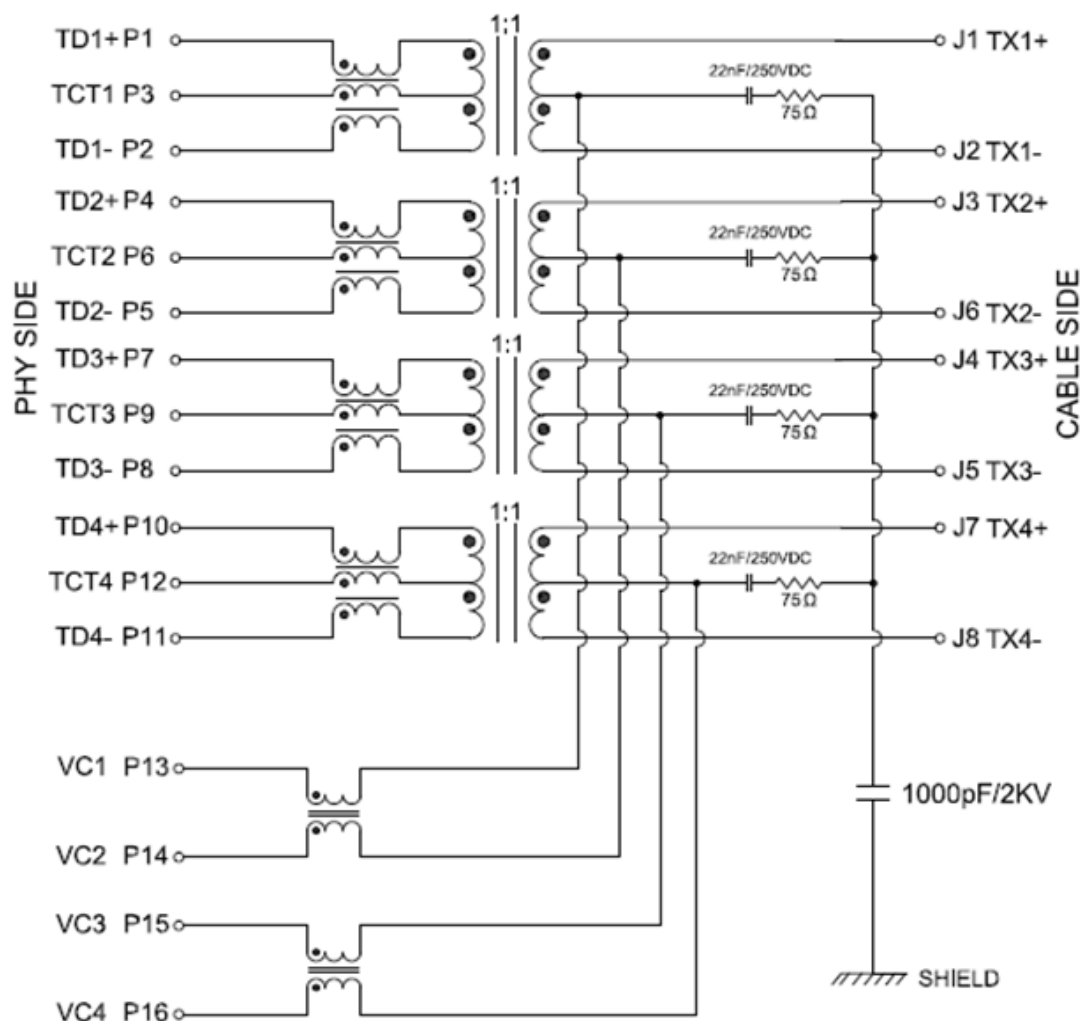


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Schematic



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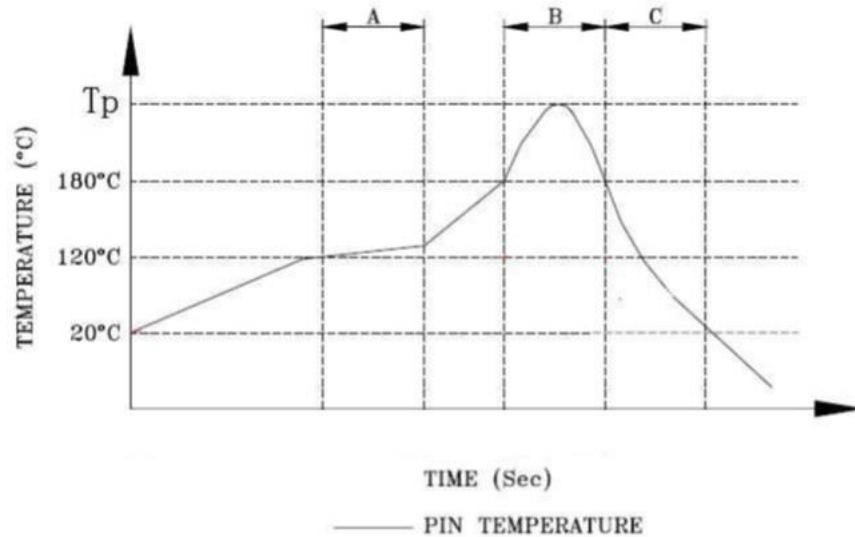


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Wave Soldering Profile



A. Preheating B. Soldering C. Gradual Cooling

Peak Temperature (T_p) = 260 °C (max)

Peak Time (t_p) = 10 s (max)

Packaging

Pieces per Carton: 27

Pieces per Bulk/Tray: 9

Weight of a Carton: 3.6 Kg

Dimension of the Carton: 360 x 210 x 175 mm

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