

## RJ45 1000 Base-T Jack with Magnetic Module and PoE



ARJ-146

## RoHS/RoHS II Compliant

16.60 x 13.50 x 32.60mm

## ► FEATURES:

- Compliant with IEEE802.3af standard
- 350uH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression
- 15W, 350mA, 48V PoE Rating
- Enhanced reliability – 5000 mating/unmating cycles

## ➤ APPLICATIONS:

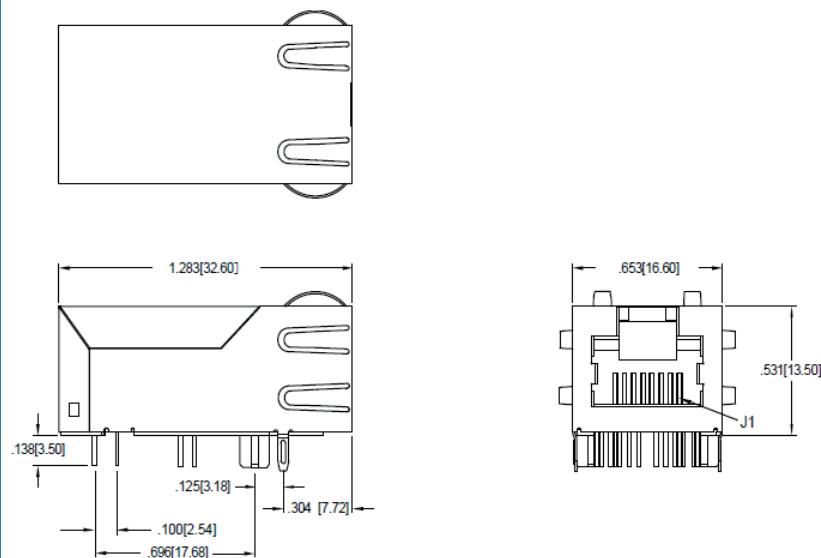
- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Microsemi.
- Single port connector for PoE applications
- 1000 Base-T LAN
- NIC, LoM and PC

## ► STANDARD SPECIFICATIONS at 25°C

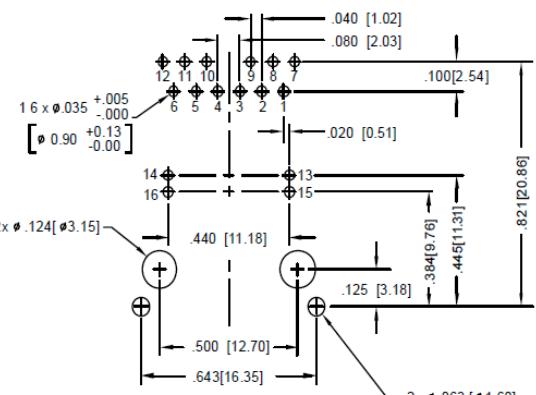
**Operating temperature range: 0°C to +70°C** **Storage temperature range: -40°C to +85°C**

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio ( $\pm 3\%$ )	1CT:1CT				
Inductance	350			uH	100kHz/0.1V@8mA (4 Channels)
Insertion Loss			-1.2	dB	0.1-80MHz
Return Loss	-19			dB	1-30MHz
	-13				30-60MHz
	-12				60-80MHz
	-10				80-100MHz
Crosstalk		$-33+20\log(f/50\text{MHz})$		dB	1-100MHz
CMR		-30		dB	0.03-100MHz
High Pot	1500Vrms/0.5mA/1Sec				
PoE Rating	15W, 350mA, 48V				

## ► MECHANICAL DIMENSIONS



## Recommended PCB Layout



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

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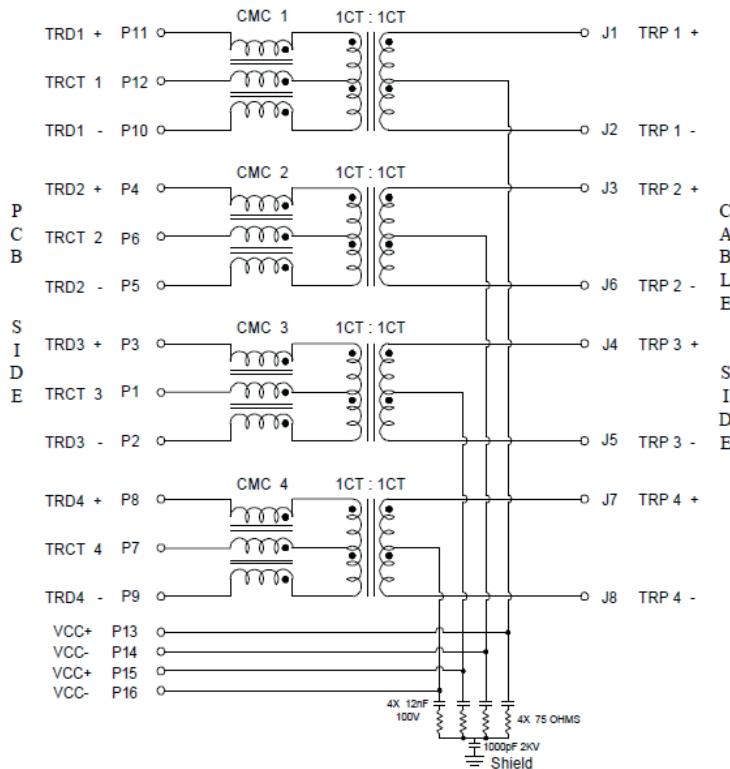
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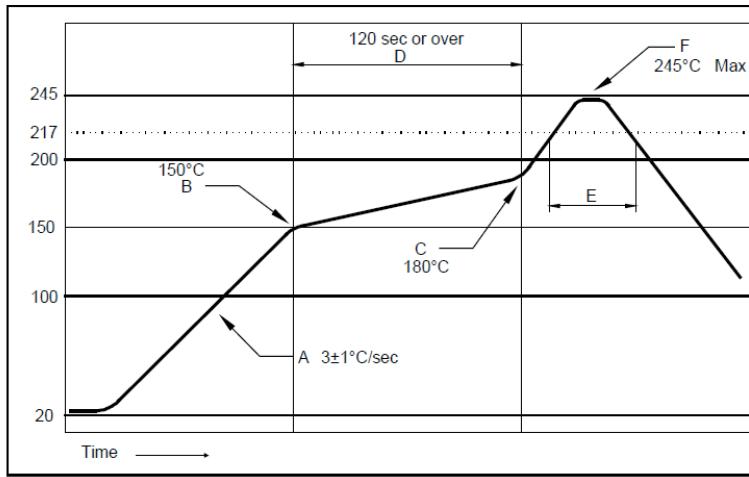


16.60 x 13.50 x 32.60mm

## SCHEMATICS



## REFLOW PROFILE:

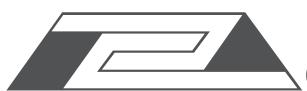


Contents	Soldering Condition
A:Increasing speed	3±1°C/sec
B:Pre-heat starting Temp	150°C
C:Pre-heat ending Temp	180°C
D:Pre-heat interval	120 sec or over
E:Over 217°C time	60~150 sec
F:Peak Temperature	245°C Max

Packing: 120pcs/tray

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