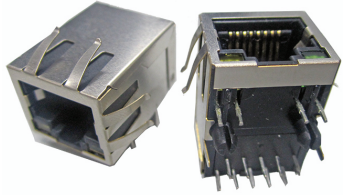
RJ45 1000 Base-T, Single Port w/ LEDs, Extended Temperature

ARJ-205

RoHS/RoHS II Compliant



16.26 x 13.84 x 21.59mm

FEATURES:

- Compliant with IEEE802.3 standard
- Designed for Network Interface Cards(NIC), LAN-on-Motherboard(LOM) amd PC applications Ethernet Switch, Servers, & Access Point Routers
- High performance for maximum EMI suppression
- 350µH minimum OCL with 8mA bias current
- RoHS peak wave solder temperature 260°C

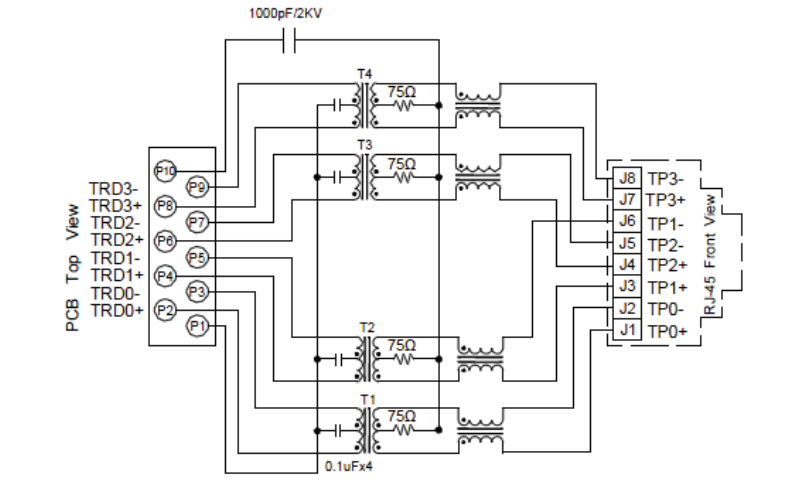
APPLICATIONS:

- Support 1000 Base-T applications w LEDs
- Extended Temperature (-40°C~85°C)
- Applicable for Ethernet Switch, Servers, & Access Point Routers
- Provides signal conditioning, EMI suppression and signal isolation
- Shorter body design for tight spacing area

STANDARD SPECIFICATIONS

Parameters	Minimum	Typical	Maximum	Units	Notes
Operating Temperature	-40		+85	°C	
Storage Temperature	-40		+85	°C	
Turn Ratio (± 5%)	1CT:1CT				Tx
	1CT:1CT				Rx
Inductance (OCL)	350			µH	100KHz/0.1V@8mA
Insertion Loss			-1.2	dB	0.3-100MHz
Return Loss	-16			dB	1-30MHz
	-13.5				40MHz
	-11.5				50MHz
	-10				60-80MHz
Cross Talk	-40			dB	30MHz
	-36				60MHz
	-30				100MHz
DCMR	-35			dB	30MHz
	-32				60MHz
	-30				100MHz
Hi-Pot	1500Vrms/0.5mA/60Sec or 1650Vrms/0.5mA/2Sec				Pri to Sec

SCHEMATICS



Standard LED	Wavelength	Forward*V(MAX)	TYP
Green	565nm	2.5v	2.2v
Yellow	585nm	2.5v	2.1v

With a forward current of 20mA

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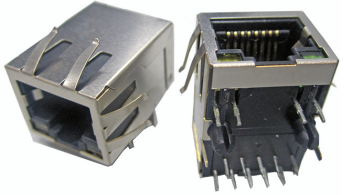
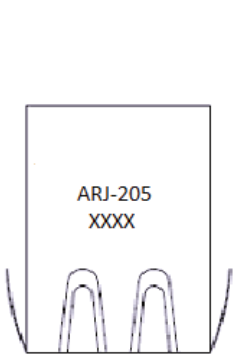
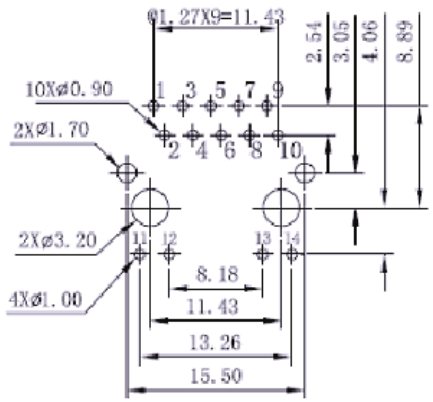


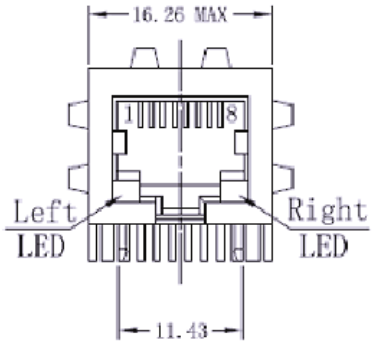
16.26 x 13.84 x 21.59mm

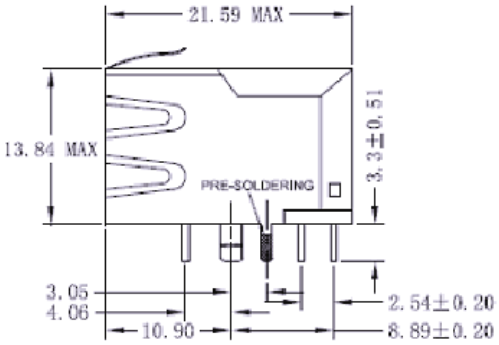
MECHANICAL DIMENSIONS





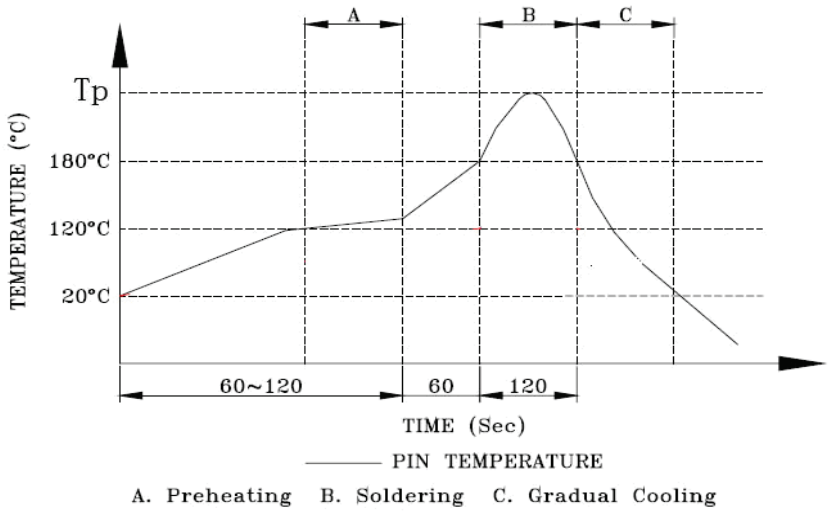
PC Board Layout
Component Side Shown





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

WAVE SOLDERING PROFILE



A. Preheating B. Soldering C. Gradual Cooling

Peak temperature (Tp) : 250± 10°C
Peak temperature (Tp) time : 5sec max

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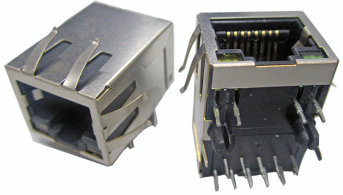
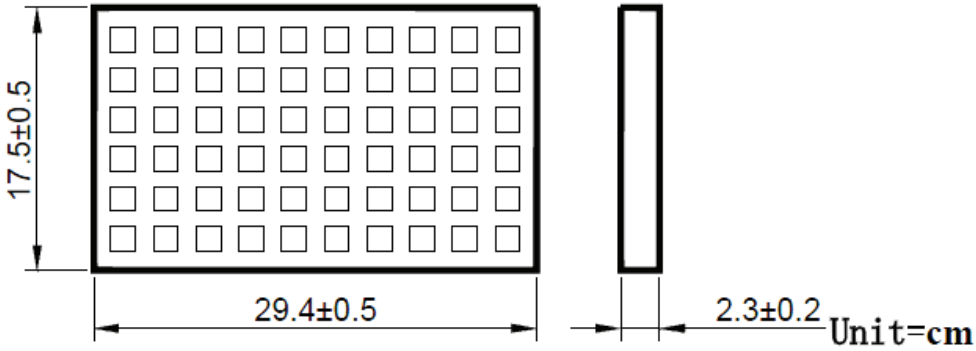


16.26 x 13.84 x 21.59mm

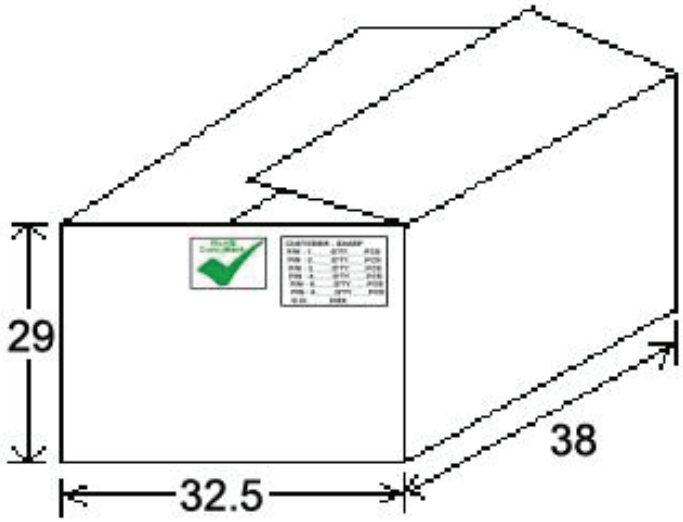
PACKING:

Packing: (60 pcs/tray)

Packaging Material: PET



Outer carton unit (optional): 1320 pcs/ 22 Trays/box



Dimensions: cm

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