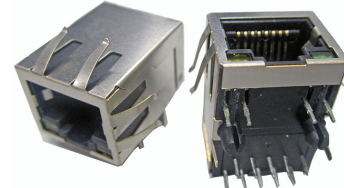


# RJ45 1000 Base-T, Single Port w/ LEDs, Extended Temperature

**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) and PC applications Ethernet Switch, Servers, & Access Point Routers
- High performance for maximum EMI suppression
- 350 $\mu$ H minimum OCL with 8mA bias current
- RoHS peak wave solder temperature 260°C

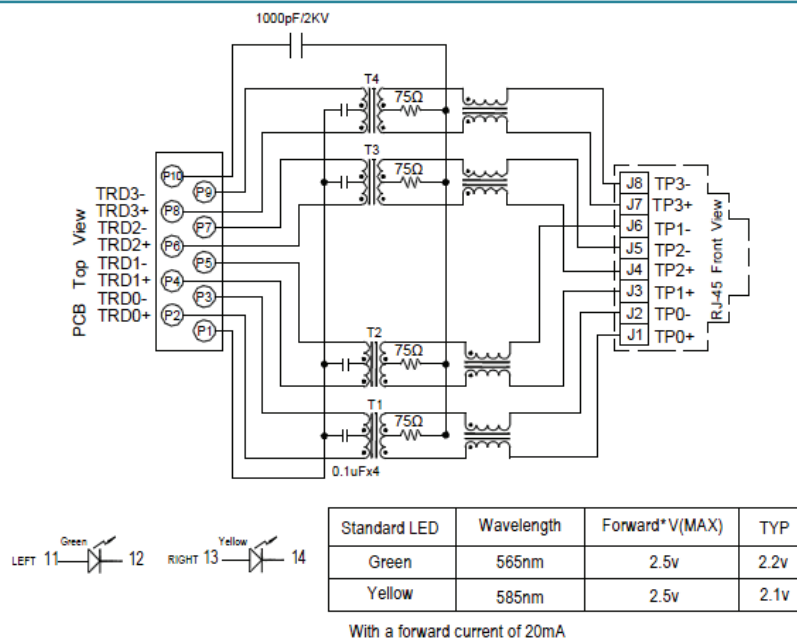
## APPLICATIONS:

- 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 ( $\pm 5\%$ ) | 1CT:1CT                                     |         |         |         | Tx              |
|                          | 1CT:1CT                                     |         |         |         | Rx              |
| Inductance (OCL)         | 350   |         |         | $\mu$ H | 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



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ISO 9001:2008  
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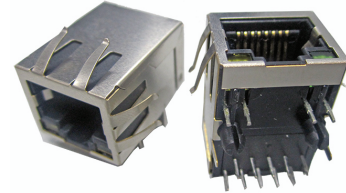
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The Power of Linking Together

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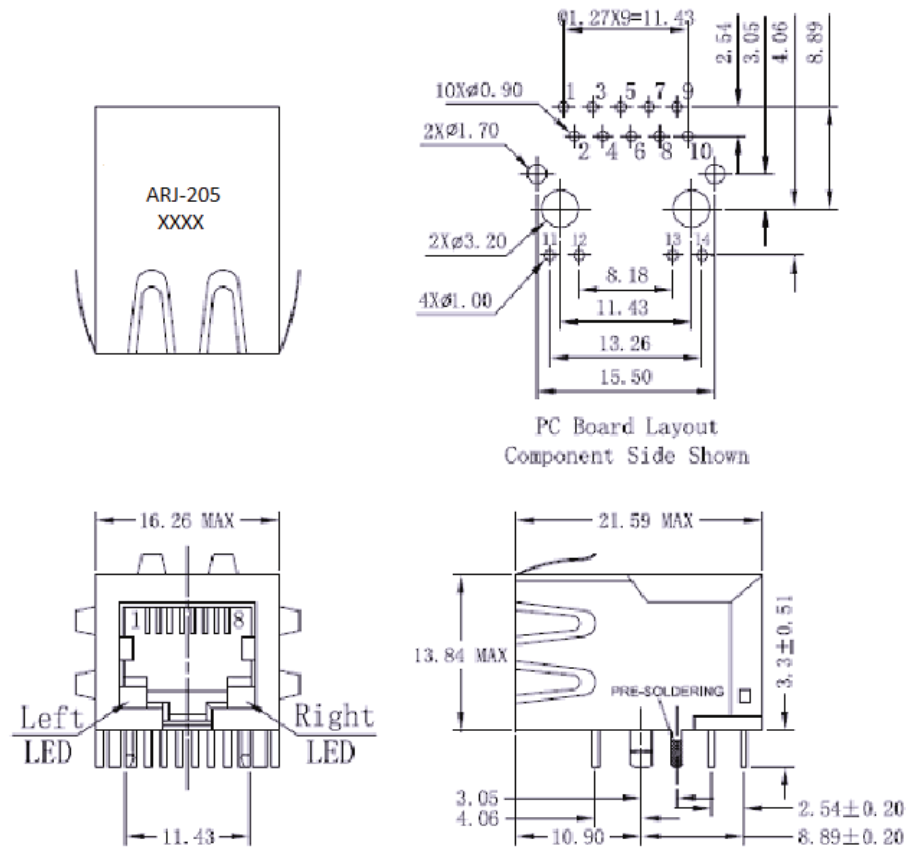
ARJ-205

RoHS/RoHS II Compliant



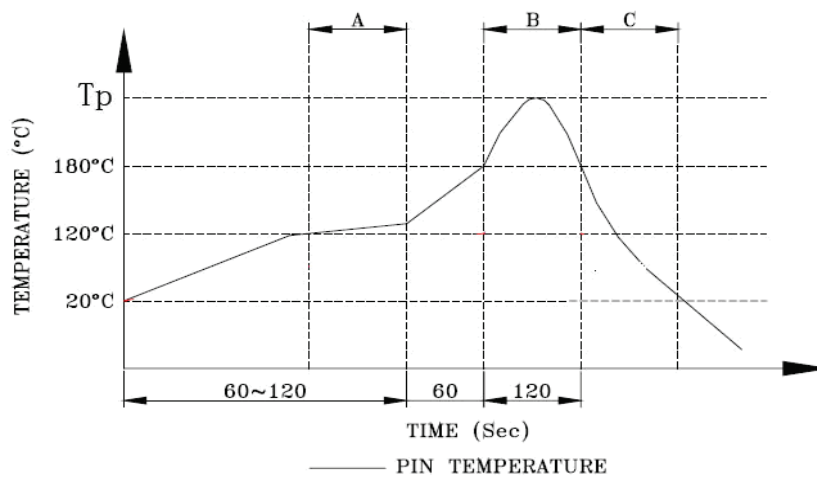
16.26 x 13.84 x 21.59mm

## MECHANICAL DIMENSIONS



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

## WAVE SOLDERING PROFILE



A. Preheating B. Soldering C. Gradual Cooling

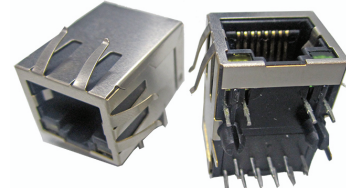
Peak temperature ( $T_p$ ) :  $250 \pm 10^\circ\text{C}$

Peak temperature ( $T_p$ ) time : 5sec max

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

**ARJ-205**

**RoHS/RoHS II Compliant**

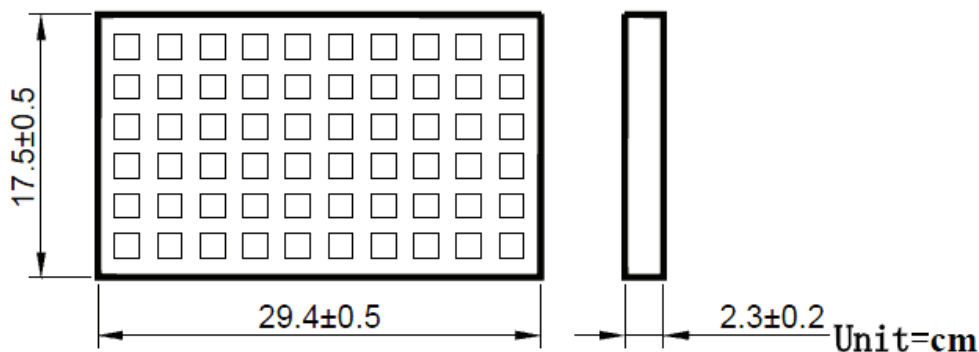


16.26 x 13.84 x 21.59mm

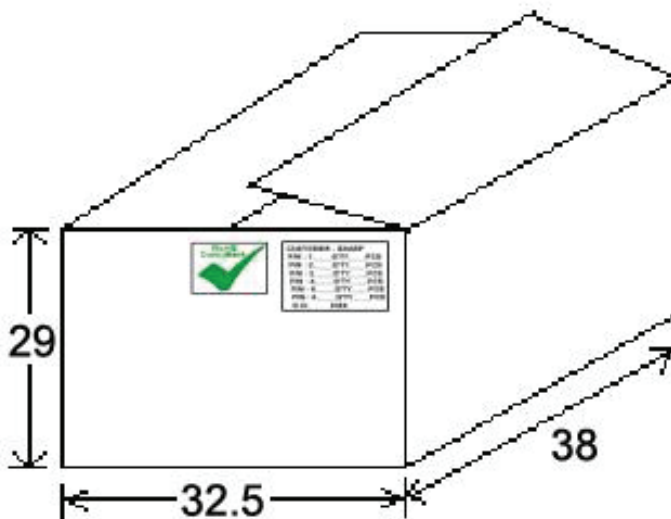
## PACKING:

**Packing: (60 pcs/tray)**

**Packaging Material: PET**



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



**Dimensions: cm**

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