

# 10/100 Base-Tx Tap Down RJ45 with LED

ARJC02-111006K

RoHS/RoHS II Compliant



16.0 x 13.55 x 21.1mm

## FEATURES:

- Compliant with IEEE802.3 standard
- 350uH minimum OCL with 8mA bias current
- High performance for maximum EMI suppression
- High reliability – 750 mating/unmating cycles

## APPLICATIONS:

- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Microsemi.
- Supports 10/100 Base-T applications
- Provides signal conditioning, EMI suppression and signal isolation.

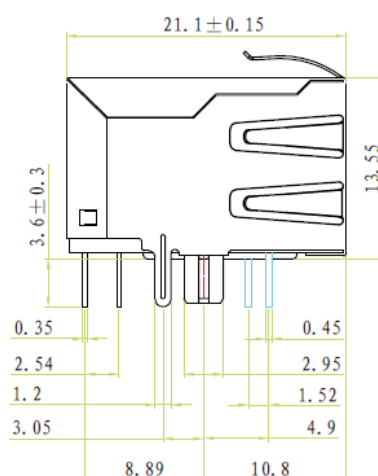
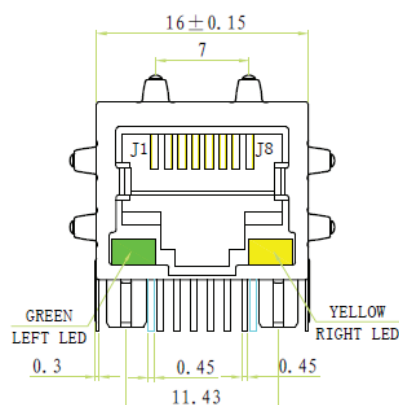
## STANDARD SPECIFICATIONS

Operating temperature range: 0°C to +70°C Storage temperature range: -25°C to +85°C

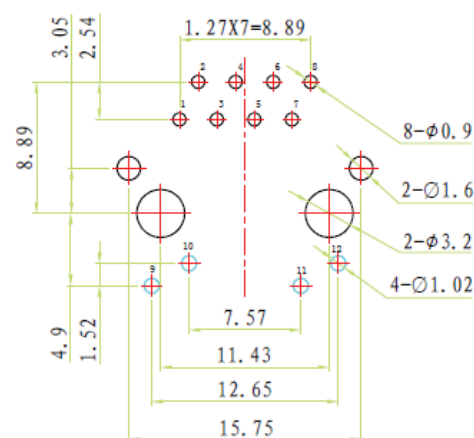
Standard Electrical Specifications @25°C

| Parameters               | Minimum         | Typical | Maximum | Units         | Notes           |
|--------------------------|-----------------|---------|---------|---------------|-----------------|
| Turn Ratio ( $\pm 3\%$ ) | 1CT:1CT         |         |         |               | Tx and Rx       |
| Inductance               | 350             |         |         | $\mu\text{H}$ | 100kHz/0.1V@8mA |
| Insertion Loss           |                 |         | -1.0    | dB            | 1-100MHz        |
| Return Loss              | -18             |         |         | dB            | 1-10MHz         |
|                          | -16             |         |         |               | 10-30MHz        |
|                          | -14             |         |         |               | 30-60MHz        |
|                          | -12             |         |         |               | 60-80MHz        |
|                          | -10             |         |         |               | 80-100MHz       |
| CMR                      | -35             |         |         | dB            | 1-100MHz        |
| Crosstalk                | -35             |         |         | dB            | 1-100MHz        |
| Hipot                    | 1500Vrms/1mA/1s |         |         |               |                 |

## MECHANICAL DIMENSIONS



## Recommended Land Pattern



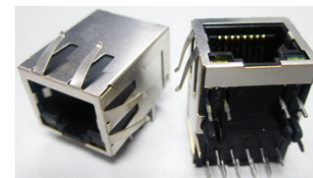
Dimensions: mm

\*\*Cosmetic differences may occur and do not affect the product's form, fit or function.

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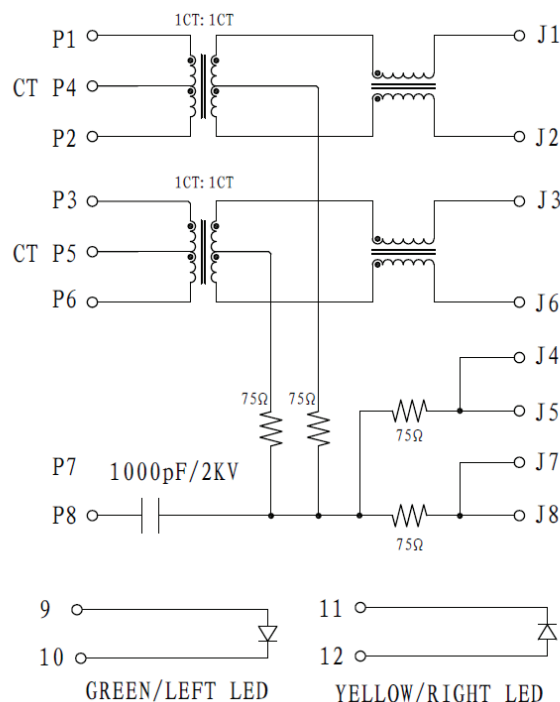
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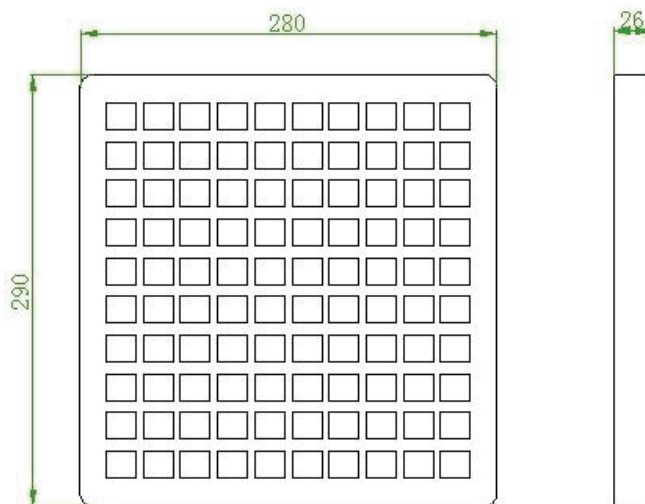
## SCHEMATICS



- ◆CAPACITOR: 1000pF ± 25% 2KV.
- ◆RESISTANCE: 75OHMS ± 20%.
- ◆RESISTANCE OF COIL: 1.8OHMS MAX, 0.25OHMS MIN.

## PACKING:

Packing: (100pcs/tray)



Dimensions: mm

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