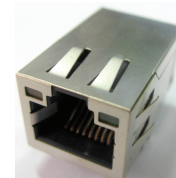


# RJ45, Single Port, Tap Up, Thru-Hole, 1000 Base-T

ARJE-0030

RoHS/RoHS II Compliant



16.89 x 13.74 x 33.02mm

## 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:

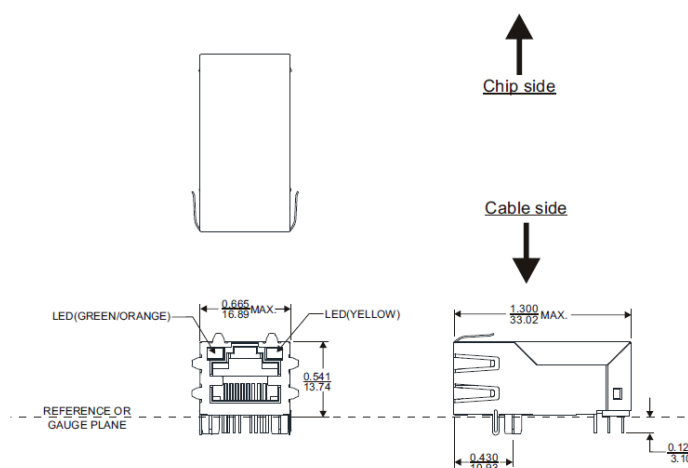
- Designed for most leading PHY IC manufacturers such as Broadcom, Marvell, Microsemi.
- Supports 10/100/1000 Base-T applications
- Provides signal conditioning, EMI suppression and signal isolation

## STANDARD SPECIFICATIONS

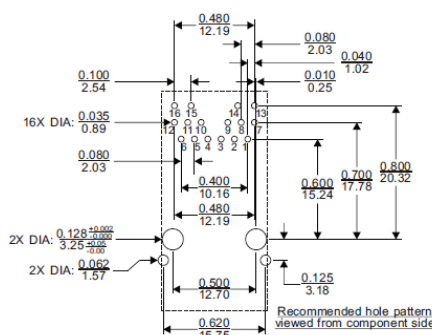
Operating temperature range: 0°C to +70°C Storage temperature range: -40°C to +85°C

| Parameters               | Minimum  | Typical | Maximum | Units | Notes                  |
|--------------------------|----------|---------|---------|-------|------------------------|
| Turn Ratio ( $\pm 3\%$ ) | 1CT:1CT  |         |         |       |                        |
| Inductance               | 350      |         |         | uH    | 100kHz, 0.1Vrms, 8mADC |
| Insertion Loss           |          |         | -1.0    | dB    | 0.1-100MHz             |
| Return Loss              | -16.0    |         |         | dB    | 1-30MHz                |
|                          | -14.5    |         |         |       | 30-60MHz               |
|                          | -12.0    |         |         |       | 80MHz                  |
| Crosstalk                | -30.0    |         |         | dB    | 0.1-100MHz             |
| CMRR                     | -30.0    |         |         | dB    | 0.1-100MHz             |
| Hipot                    | 1500Vrms |         |         |       | Pri to Sec             |

## MECHANICAL DIMENSIONS

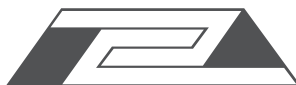


### Recommended Land Pattern



Dimensions: inch/mm (Unless otherwise specified, all tolerances are  $\pm 0.01/0.25$ )

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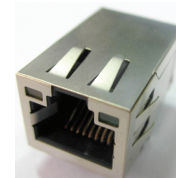
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Revised: 11.01.13

# RJ45, Single Port, Tap Up, Thru-Hole, 1000 Base-T

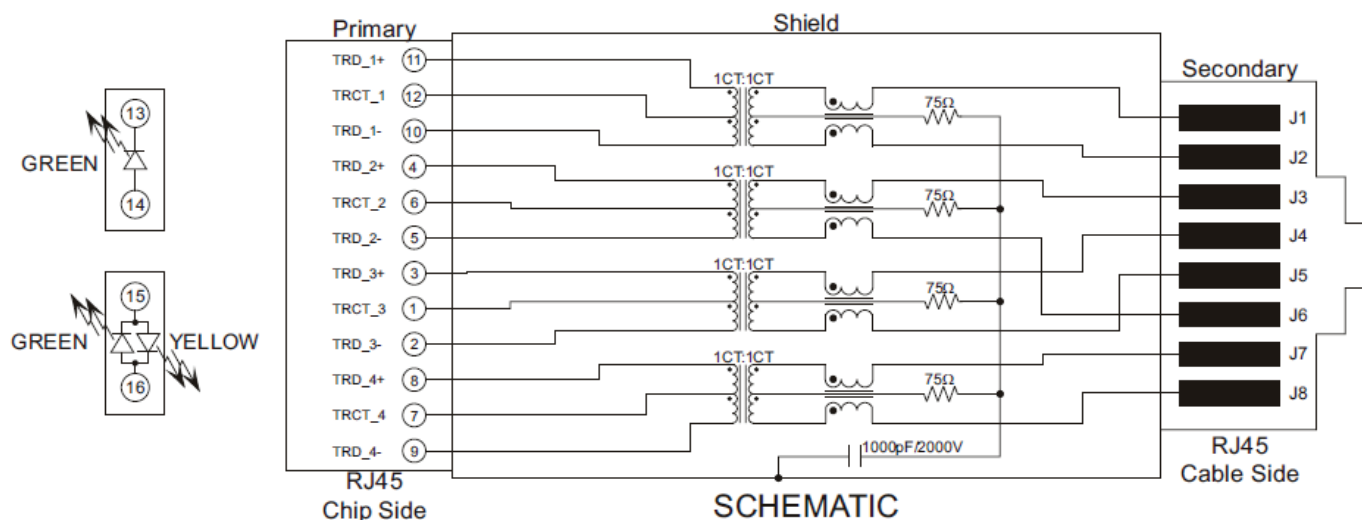
ARJE-0030

RoHS/RoHS II Compliant



16.89 x 13.74 x 33.02mm

## SCHEMATICS



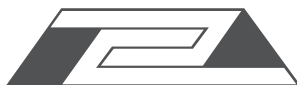
## LED SPECIFICATION @20mA FORWARD CURRENT

| Color           | GREEN     | YELLOW    |
|-----------------|-----------|-----------|
| Wavelength      | 570nm Typ | 590nm Typ |
| Forward Voltage | 2.2V Typ  | 2.1V Typ  |

Packing: 120pcs/tray

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