RoHS

# Single Port RJ45 Connector

**AR11-3695**

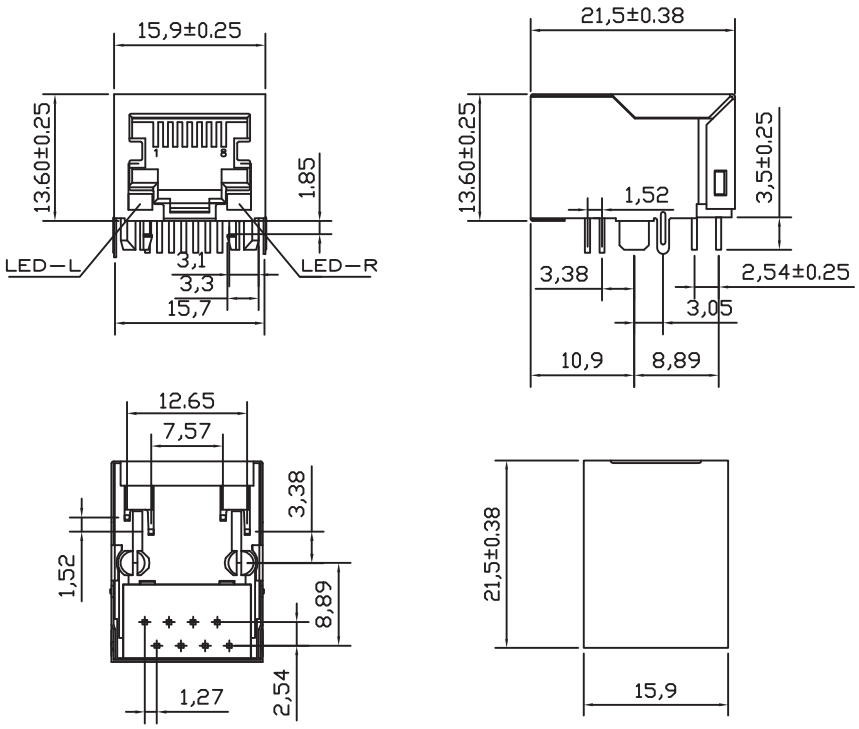
- **10/100 Base-T Ethernet Application**
- **Impedance: 100OHMS**
- **RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F**
- **Industrial Operating Temp: 0ºC to +70ºC**
- **Available in other Circuit Designs**
- **Optional Gold Plating Thickness**
- **Other LED Patterns available**

| Electrical Specifications @ 25°C | | | | | | |
|---|---|---|---|---|---|---|
| Part Number | OCL(uH Min) @ 100kHz, 0.1V | Turns Ratio chip: cable (±2%) | Insertion Loss (dB Max) | Return Loss (dB Min) | | |
| | With 8mA DC Bias | | 1-100MHz | 1-30MHz | 30-60MHz | 60-80MHz |
| AR11-3695 | 350 | 1CT:1CT | -1.0 | -18 | -18-20Log(F/30MHz) | -12 |

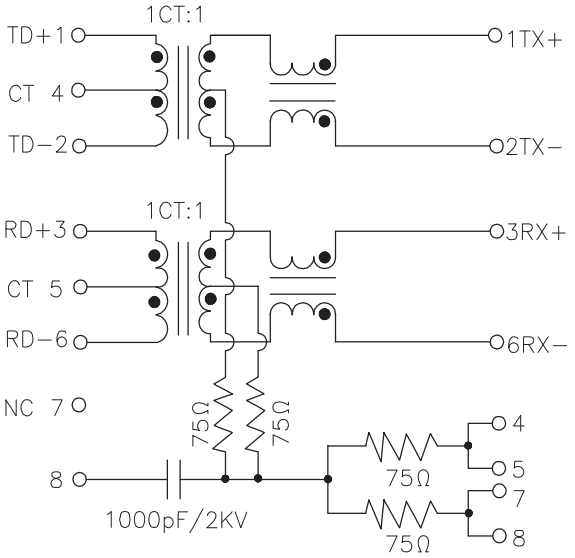
| Electrical Specifications @ 25°C | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Cross Talk (dB Min) | | | | | CMR (dB Min) | | | | | CDMR (dB Min) | | | | | HI-POT (Vrms) |
| 0.5-1MHz | 10MHz | 30MHz | 50MHz | 100MHz | 0.3-1MHz | 10MHz | 30MHz | 60MHz | 100MHz | 0.3-1MHz | 10MHz | 30MHz | 60MHz | 100MHz | 1.0mA/3Sec. |
| -50 | -50 | -40 | -35 | -30 | -50 | -47 | -42 | -37 | -30 | -50 | -50 | -50 | -45 | -40 | 1500 |

All specifications subject to change without notice.

## MECHANICAL



## SCHEMATICS



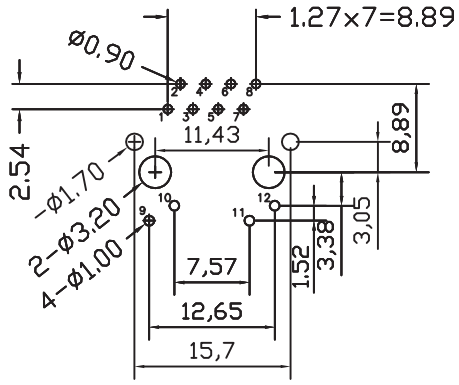




| Standard LED | Wavelength | Forward*V(MAX) | TYP |
|---|---|---|---|
| Green | 565nm | 2.5v | 2.2v |
| Yellow | 565nm | 2.5v | 2.1v |

**With a forward current of 20mA**

## PCB LAYOUT




## NOTES

1. Shield- 0.20mm THICKNESS BRASS C2680 H.
   PLATING NICKEL 30u"-50u"
2. Housing- Standard Material Nylon66, Glass filled
   Polyester UL94V-0 Standard Color Black.
3. RJ Terminal- Plastic: PBT GF, UL94V-0, Standard
   Color Black.
   Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
   Plating: Nickel 40u"-60u" for all and Sn 100%, and
   15u" Gold Plating.
4. Input Terminal: PBT, Glass Filled, UL94V-0,
   Standard Color Black.
   Pin: 0.35mm Thickness Phos-Bronze C2680.
   Plating: Nickel 40u"-60u" for all and Sn 100%.