

- 10/100 Base-T Ethernet Application
- Impedance: 100OHMS
- Transmit open circuit inductance (OCL): 350uH (MIN) @100KHz,0.1VRMS with 8mA DC Bias
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Standard operating temp: 0°C to +70°C
- Storage temperature range: -40°C to +85°C

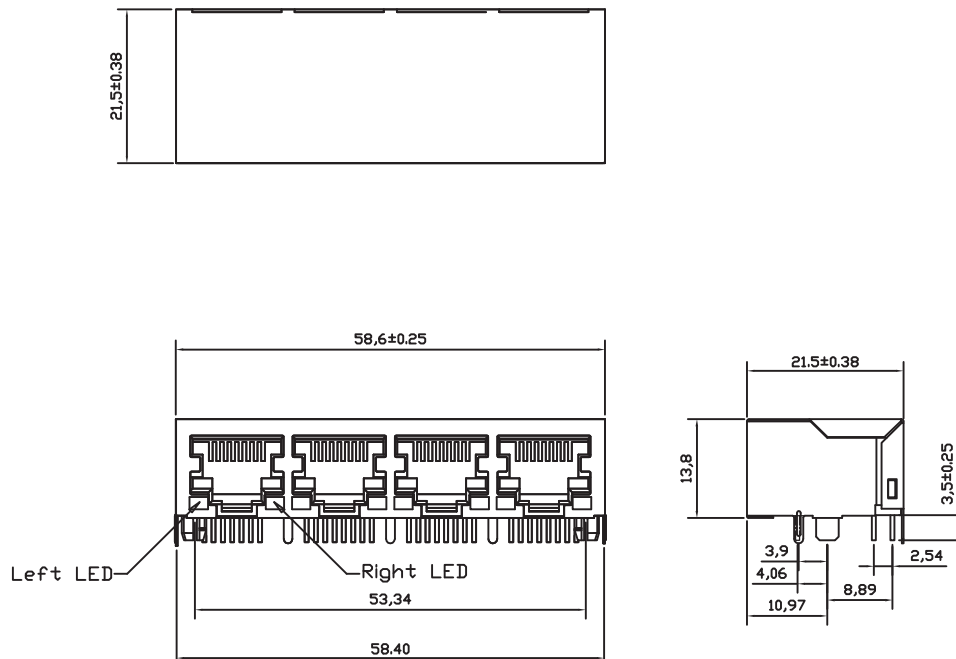
| Electrical Specifications @ 25°C | | | | | | |
|----------------------------------|-------------------------------|-------------------------------------|----------------------------|-------------------------|--------------------|----------|
| Part Number | OCL(uH Min) @ 100kHz, 0.1V | Turns Ratio chip: cable (±2%) | Insertion Loss (dB Max) | Return Loss (dB Min) | | |
| | With 8mA DC Bias | | 1-100MHz | 1-30MHz | 30-60MHz | 60-80MHz |
| AR14-3638-1 | 350 | 1CT:1CT | -1.0 | -18 | -18-20Log(F/30MHz) | -12 |

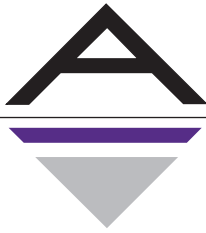
| Electrical Specifications @ 25°C | | | | | | | | | | | | | | | | |
|----------------------------------|-------|-------|-------|--------|-----------------|-------|-------|-------|--------|------------------|-------|-------|-------|--------|------------------|--|
| Cross Talk (dB Min) | | | | | CMR (dB 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 | 0.5mA/2Sec. | |
| -50 | -50 | -40 | -35 | -30 | -50 | -47 | -42 | -37 | -30 | -50 | -50 | -50 | -45 | -40 | 1500 | |

All specifications subject to change without notice.

MECHANICAL

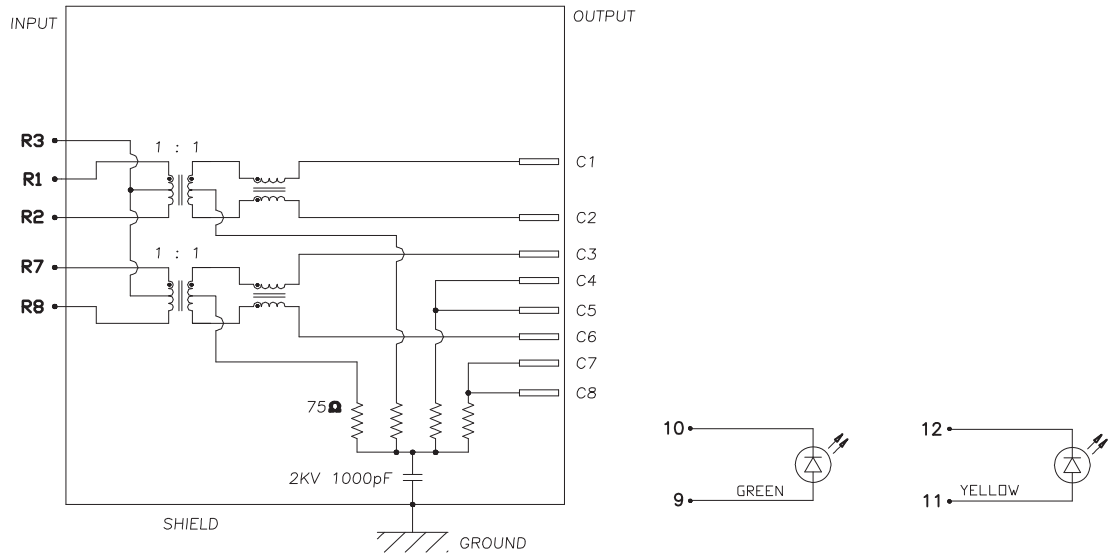
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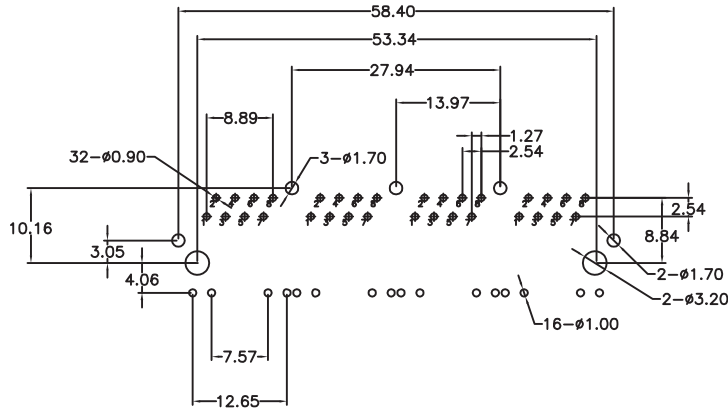
SCHEMATICS

AR14-3638-1



PCB LAYOUT

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NOTES

1. Shield- 0.20mm THICKNESS BRASS C2680 H. PLATING NICKEL 30u"-50u"
2. Housing- Standard Material Nylon 66, Glass filled Polyester UL94V-0 Standard Color Black.
3. RJ Terminal- Plastic: PBT UL94V-0, Standard Color Black.
Pin: 0.35mm Thickness Phos-Bronze C5210 EH.
Plating: Nickel 40u"-60u" for all and Sn 100%, and 6u" Gold Plating.
4. Input Terminal- Plastic: PBT, Glass Filled, UL94V-0, Standard Color Black.
Pin: 0.35mm SUS430.
Plating: Nickel 40u"-60u" for all and Sn 100%.