



Single Port RJ45 CONNECTOR WITH INTEGRATED MAGNETICS, TAB UP

- 100 Base-T Ethernet Application
- Meets IEEE 802.3 & ANSI X 3.263 standards
- Impedance: 100OHMS
- Transmit open circuit inductance (OCL): 350uH (MIN) @100KHz,0.1VRMS with 8mA DC Bias
- Always EU RoHS/ELV Compliant, wave solder capable to 265°C
- RJ45 jack cavity conforms to FCC rules and regulations Part 68, SUB Part F
- Standard operating temp: 0°C to +70°C (see footnote)
- Industrial operating temp: -40°C to +85°C (see footnote)

Electrical Specifications @ 25°C

| Part Number | OCL(uH Min) @ 100kHz, 0.1V With 8mA DC Bias | Turns Ratio chip: cable (±3%) | Insertion Loss (dB Max) | Return Loss (dB Min) | | |
|--------------|---|-------------------------------------|----------------------------|-------------------------|-----------------|----|
| | 0.5-100MHz | | 0.5-30MHz | 30.1-60MHz | 60.1-80MHz | |
| AR2028-2239_ | 350 | 1CT:1CT | 1.1 | 18 | 18-20*log(f/30) | 12 |

Electrical Specifications @ 25°C

| Part Number | EMI Fingers | LED (L/R) | Cross Talk (dB Min) | | CMRR (dB Min) 0.5-100MHz | HI-POT (VDC) |
|--------------|----------------|--------------|------------------------|-----------------|--------------------------------|-----------------|
| | | | 0.5-40MHz | 40.1-100MHz | | |
| AR2028-2239_ | NO | Y/G | 30 | 33-20*log(f/50) | 30 | 2250 |

*Complete part number by inserting "S" for Standard Temp. or "I" for Industrial Temp.

All specifications subject to change without notice.

MECHANICAL

Unless otherwise specified all tolerances are: ±0.25 in mm

AR2028-2239_



