RoHS

SINGLE PORT RJ45

AR11-4027I



- 10/100/1000 Gigabit Base-T for Ethernet LAN and WAN
- For PoE+ Applications. Compliant with IEEE 802.3at
- DC Current/Voltage Rating-PSE Pins: 720mA @ 57V (Continuous)
  1.2A Max @ 57VDC for 200 Milliseconds
- Transmit open Circuit Inductance (OCL): 350µH
- RJ45 Cavities Conform to FCC Rules and Regulation Part 68
- Industrial Operating Temperature Range: -40°C to +85°C

Electrical Specifications @ 25°C

Part Number	OCL(µH Min) @100KHz, 0.1V		Turns Ratio Chip:Cable (±2%)	Cross Talk (dB Min)				HI-POT
	8mA DC Bias	19mA DC Bias		0.5-10MHz	30MHz	50MHz	100MHz	
AR11-4027I	350	120	1CT:1CT	-50	-40	-35	-30	2250 VDC

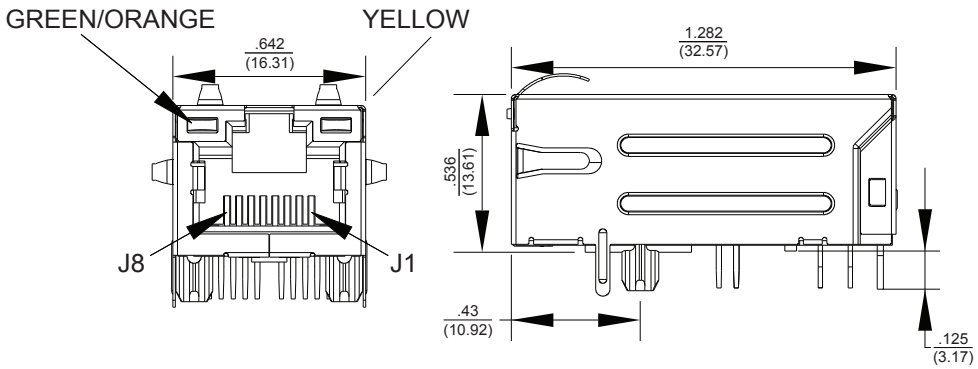
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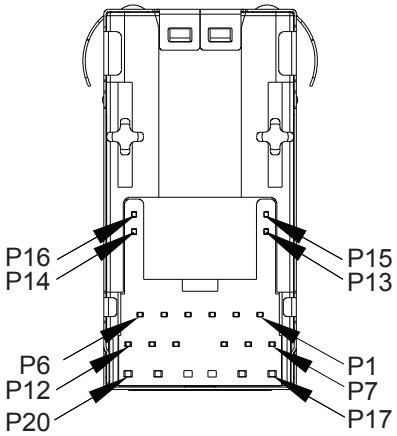
Part Number	Insertion Loss (dB Max)		DCR (Ω Max)	Return Loss (dB Min)					CMR (dB Min)
	1-100MHz	100-125MHz		1-30MHz	30-50MHz	50-60MHz	60-80MHz	80-100MHz	1-100MHz
AR11-4027I	-1.0	-1.2	1.2	-18	-16	-14	-12	-10	-30

All specifications subject to change without notice.

MECHANICAL

DIMENSION UNIT: inch (mm)



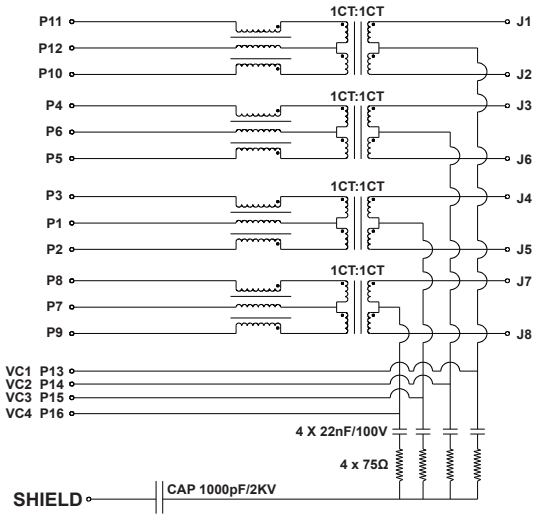


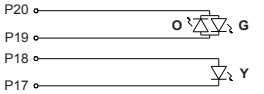


MARKING

UNLESS OTHERWISE SPECIFIED,
ALL DIMENSIONS TOLERANCES
ARE ±.010 / (.254)

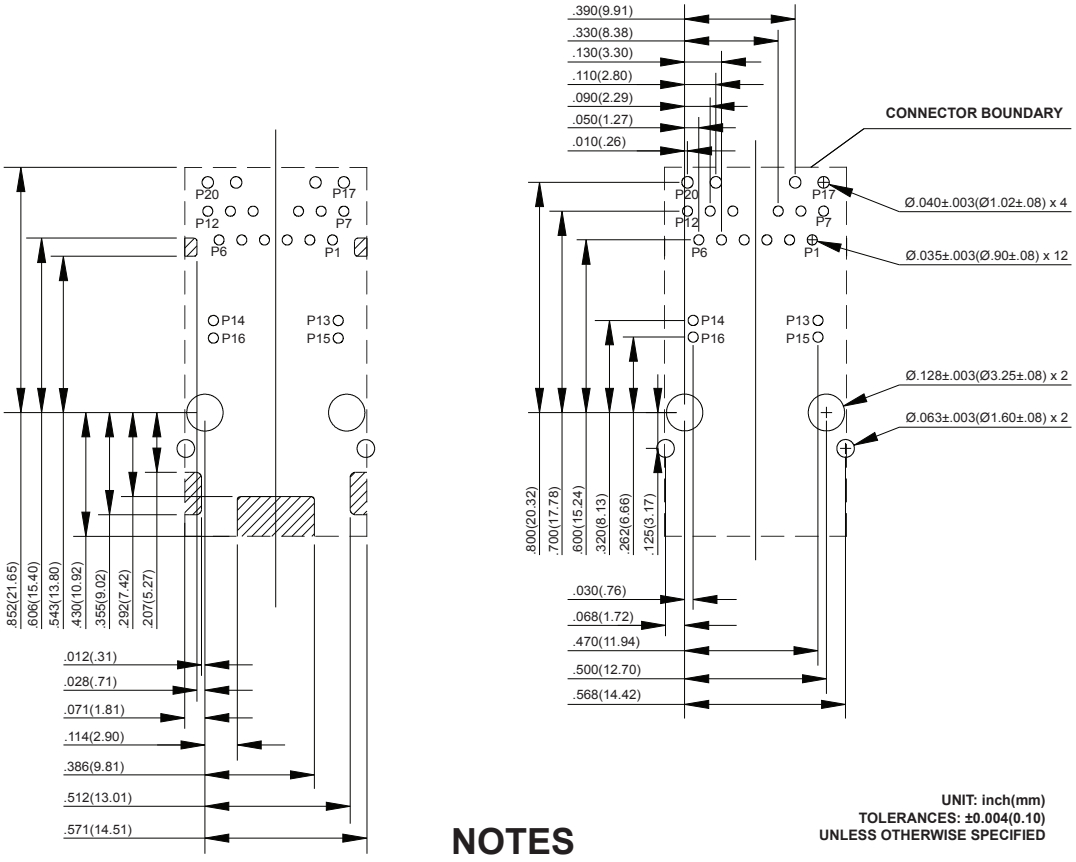
SCHEMATICS





PIN	YELLOW	PIN	ORANGE	GREEN
P17	–	P19	+	–
P18	+	P20	–	+

PCB LAYOUT



UNIT: inch(mm)
TOLERANCES: ±0.004(0.10)
UNLESS OTHERWISE SPECIFIED

NOTES

1. **Connector Material:**
   Housing: PA66 Black UL94 V-0
   Shield: Brass
   Shield Plating: Nickel
   Contact: Phosphor Bronze
   Contact Plating: Selective Gold, 6μ" Min in Contact Area
2. Pin Not Electrically Connected May Be Omitted. See Electrical Drawing for Omitted Pins.
3. The Part is Recommended for Wave Soldering Process. Peak Soldering Temperature is 260°C Max, 10Sec Max.