



Single Port 10G PoE++ RJ45 Connector

AR11-4502

- 10 Gigabit Base-T for Ethernet Applications
- For PoE++ Applications with up to 900mA current capability. Compliant with IEEE802.3at
- Operating Temp: 0°C to +70°C
- Storage Temp: -40°C to +85°C
- RJ45 Jack cavity conforms to FCC rules and regulations Part 68



Electrical Specifications @25°C

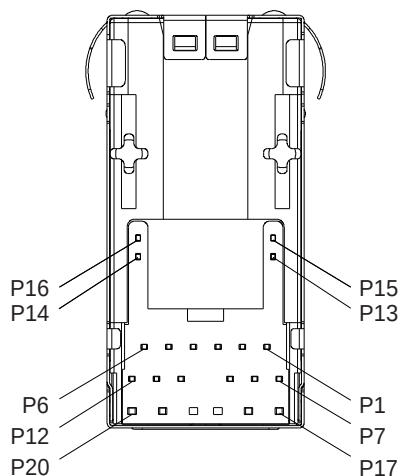
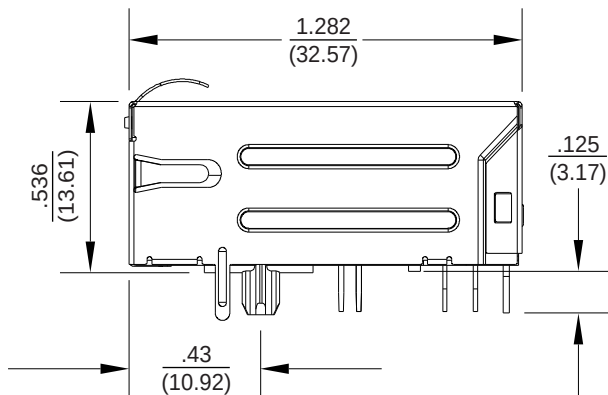
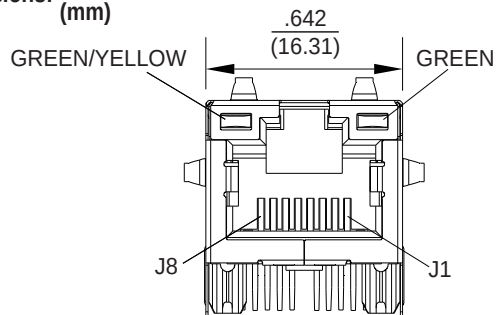
OCL(μH Min) @100KHz, 0.1V With 8mA DC BIAS	Turns Ratio (±2%)	Return Loss (Z Out = 100Ω ±1%) dB Min		Insertion Loss (dB Max)		Current Carrying Capability, RJ45 Pin 1-8
		1-100MHz	100-500MHz	100KHz	1-400MHz	
120	1:1	-22	-22 + 20.75*LOG(f/100)	-3.0	-2.0	900mA Max

Electrical Specifications @25°C

Cross Talk (dB Min)		CMR (dB Min)			CDMR (dB Min)		Hi-Pot Input - Output 60 Sec
1-100MHz	100-500MHz	1-40MHz	40-100MHz	100-500MHz	1-250MHz	250-500MHz	
-28	-19	-30	-28	-26	-30	-22	2250VDC Min

All specifications subject to change without notice.

MECHANICAL

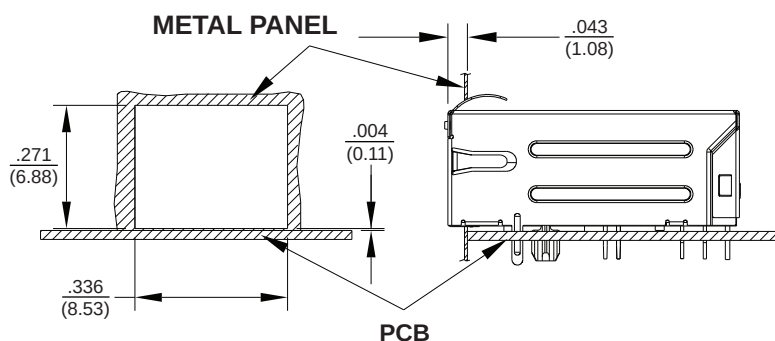
Dimensions: $\frac{\text{inch}}{(\text{mm})}$ 

Unless otherwise specified, all dimension tolerances are ±.010 (.254mm)



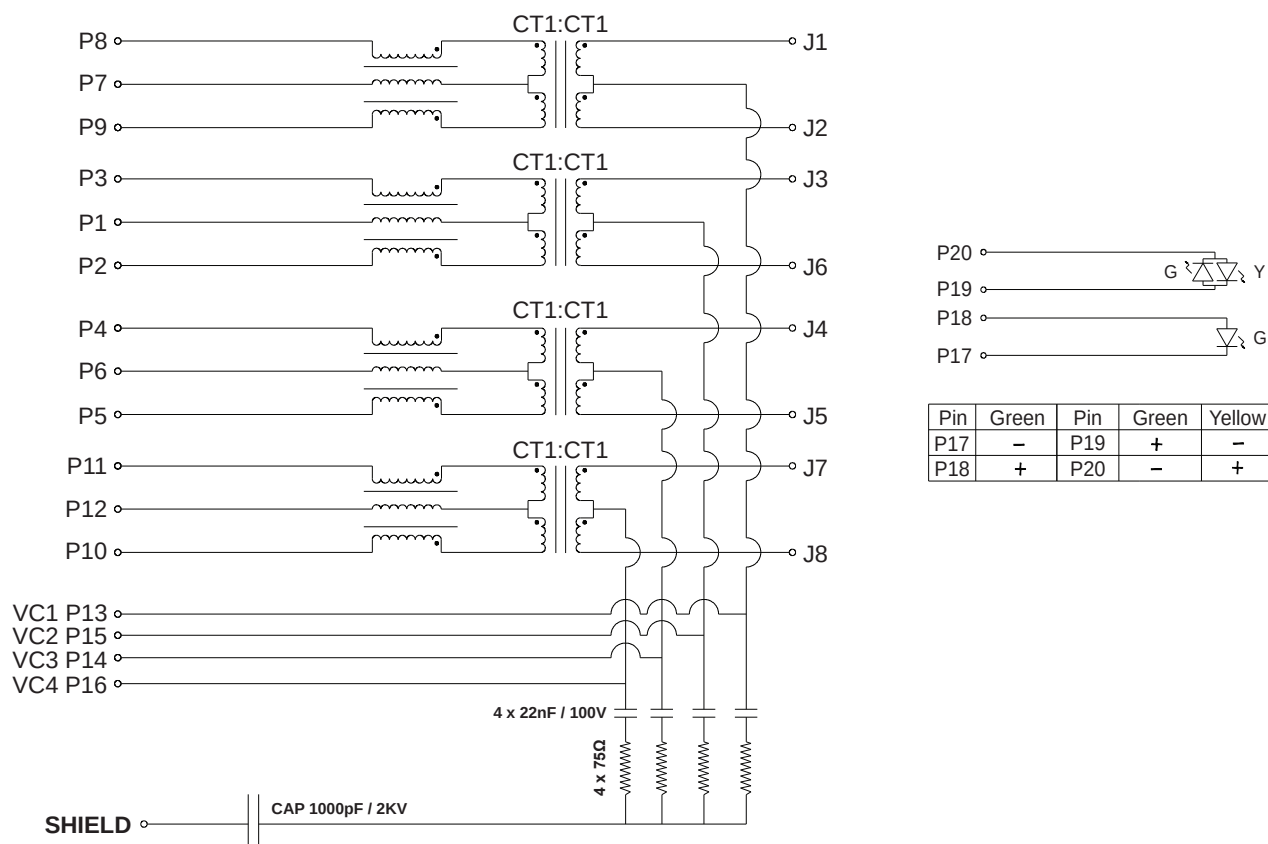
SUGGESTED PANEL CUTOUT

Dimensions: $\frac{\text{inch}}{(\text{mm})}$



Tolerances: $\pm .004(0.10)$

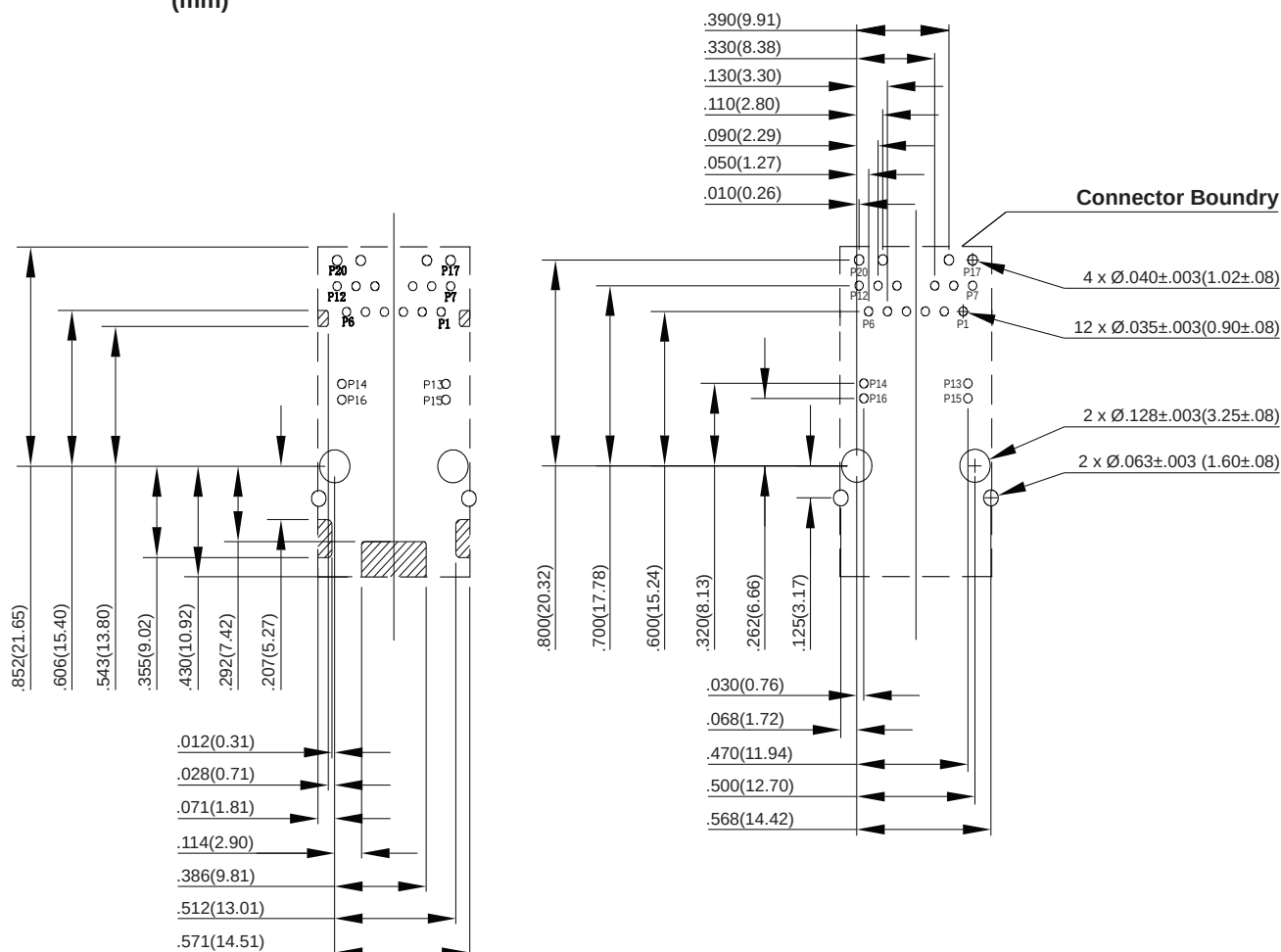
SCHEMATICS





PCB-LAYOUT

Dimensions: $\frac{\text{inch}}{(\text{mm})}$



Tolerances: $\pm .004(0.10)$

NOTES

- Connector Material:
Housing: PA66 Black UL94 V-0
Shield: Brass
Shield Plating: Nickel
Contact: Phosphor Bronze
Contact Plating: Selective Gold, 50 μ Min in contact area
- Pin not Electrically connected maybe omitted review electrical drawing for omitted Pins.
- The part is recommended for wave soldering process peak soldering Temperature is 260°C Max, 10 Secs Max