

**MODEL:** CRJ003-ML1-TH | **DESCRIPTION:** MODULAR JACK**FEATURES**

- 8P8C (RJ45)
- integrated magnetics
- 10/100/1000 BaseT
- LED
- shielded
- high temp plastic

**SPECIFICATIONS**

parameter	conditions/description	min	typ	max	units
rated voltage				150	Vac
rated current				1.5	A
withstanding voltage	for 1 minute		1,500		Vac
contact resistance				40	mΩ
insulation resistance		500			MΩ
insertion/withdrawal force				6.12	kgf
operating temperature		0		70	°C
storage temperature		-40		80	°C
life			1,000		cycles
flammability rating	UL94V-0				
RoHS	yes				
packaging	carton size: 355 x 255 x 250 mm tray QTY: 120 pcs per tray carton QTY: 1,200 pcs per carton				

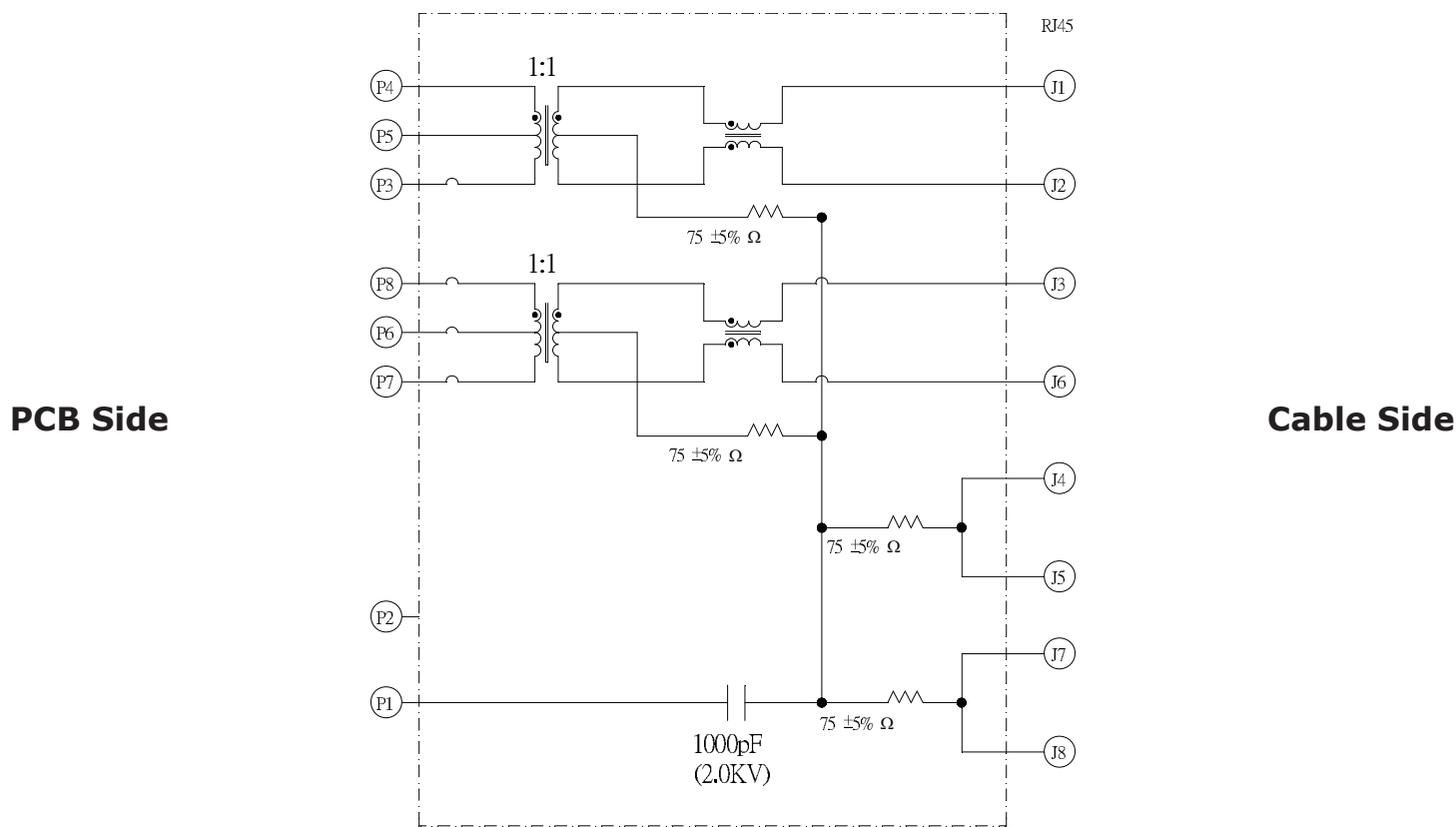
**SOLDERABILITY**

parameter	conditions/description	min	typ	max	units
wave soldering	for maximum 5 seconds			260	°C

## MAGNETIC SPECIFICATIONS (AT 25°C)

parameter	conditions/description	min	typ	max	units
turns ratio	TX (1CT : 1 CT) (±5%) RX (1CT : 1 CT) (±5%)				
OCL	at 100 kHz, 0.1 V, 8 mA DC	350			μH
insertion loss	at 1~100 MHz			-1.2	dB
return loss	at 30 MHz	-16			dB
	at 60 MHz	-12			dB
	at 80 MHz	-10			dB
crosstalk	at 1~100 MHz	-30			dB
common mode rejection	at 1~100 MHz	-30			dB
hipot	input to output for 1 minute, 1 mA	1,500			Vac

## SCHEMATIC

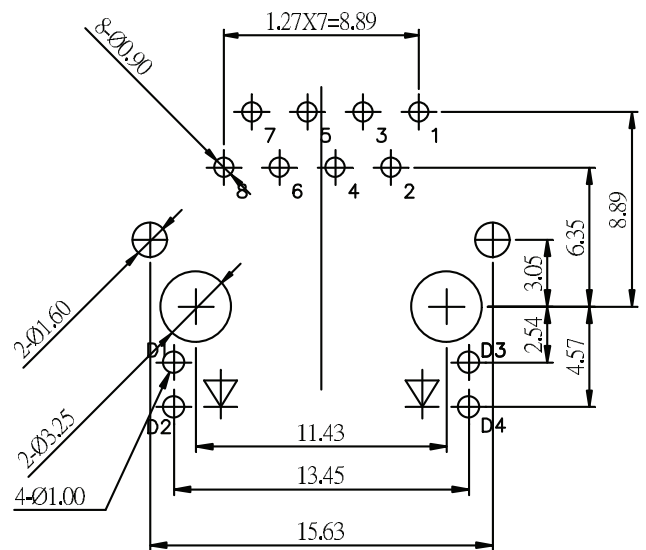
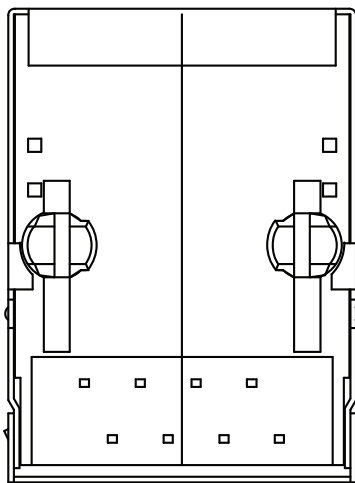
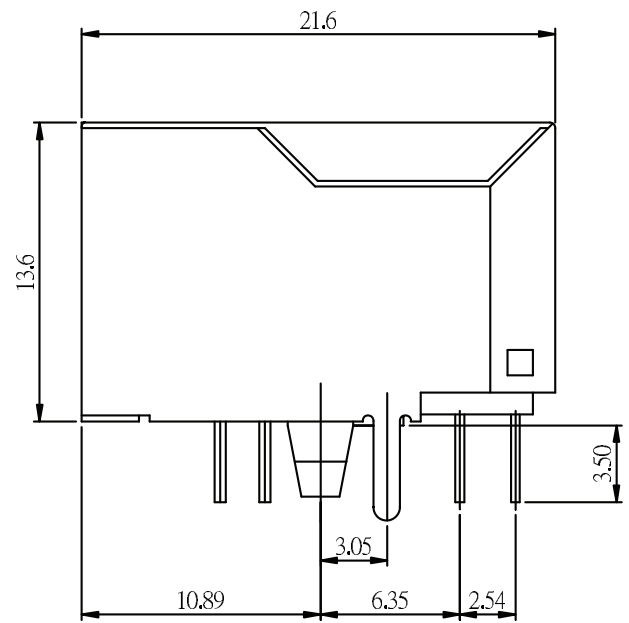
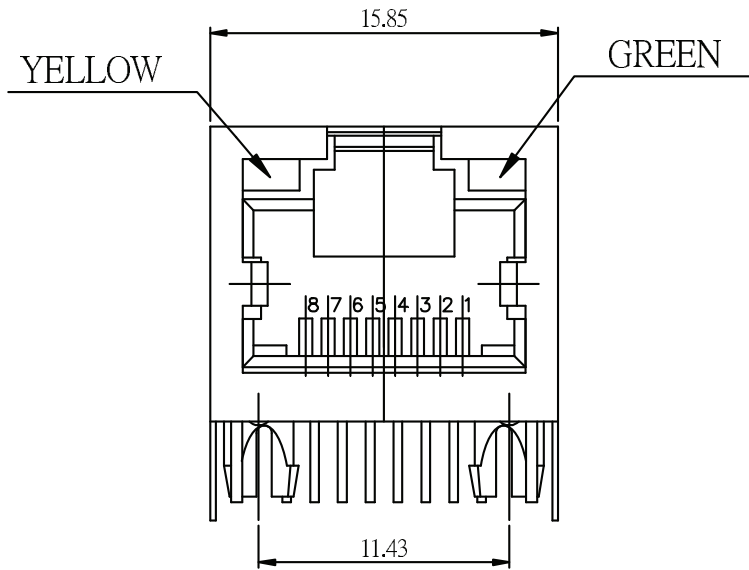


LED COLOR	WAVELENGTH	FORWARD VOLTAGE at IF 20 mA
Yellow	585~595 nm	2.5 V max
Green	565~575 nm	2.5 V max

## MECHANICAL DRAWING

units: mm  
 tolerance:  
 X ±0.5 mm  
 X.X ±0.38 mm  
 X.XX ±0.25 mm  
 X.XXX ±0.10 mm  
 PCB: ±0.05 mm  
 PCB thickness: 1.6 mm  
 unless otherwise noted

ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	insulator	PA9T (UL94V-0)	black
2	contact terminals	phosphor bronze	contact area: 6 μ" gold over nickel solder area: tin over nickel
3	shield	brass	nickel alloy



Recommended PCB Layout  
Top View

## REVISION HISTORY

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rev.	description	date
1.0	initial release	03/31/2021

The revision history provided is for informational purposes only and is believed to be accurate.

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