CUI DEVICES

date 03/31/2021

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MODEL: CRJ001-ML1-TH | DESCRIPTION: MODULAR JACK

FEATURES

- 8P10C (RJ45)
- integrated magnetics
- 10/100/1000 BaseT
- LED
- shielded





SPECIFICATIONS

parameter	conditions/description	min	typ	max	units
rated voltage				150	Vac
rated current				1.5	А
withstanding voltage	for 1 minute		1,500		Vac
contact resistance				40	mΩ
insulation resistance		500			МΩ
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 tray QTY: 120 pcs per tray carton QTY: 1,200 pcs per car				

SOLDERABILITY

parameter	conditions/description	min	typ	max	units
wave soldering	for maximum 5 seconds			240	°C

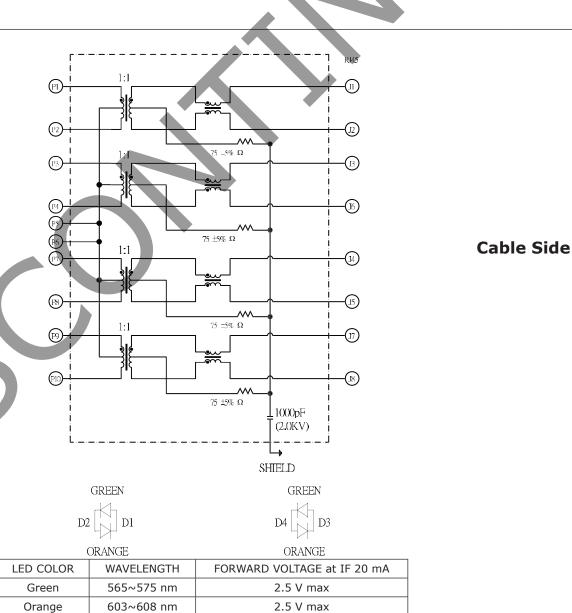


MAGNETIC SPECIFICATIONS (AT 25°C)

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		. 1	μH
insertion loss	at 0.3~100 MHz			-1.0	dB
return loss	at 30 MHz at 60 MHz at 80 MHz	-18 -14 -12			dB dB dB
crosstalk	at 1~30 MHz at 30~60 MHz at 60~100 MHz	-40 -35 -30			dB dB dB
common mode rejection	at 30 MHz at 50 MHz at 100 MHz at 150 MHz	-40 -35 -30 -20			dB dB dB dB
hipot	input to output for 1 minute, 1 mA	1,500			Vac

SCHEMATIC

PCB Side



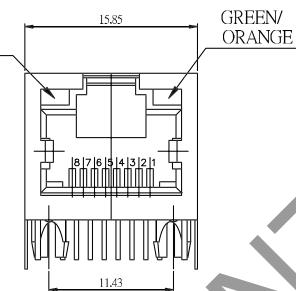
MECHANICAL DRAWING

units: mm tolerance: $X \pm 0.5 \text{ mm}$ $X.X \pm 0.38 \text{ mm}$ $X.XX \pm 0.25 \text{ mm}$ $X.XXX \pm 0.10 \text{ mm}$

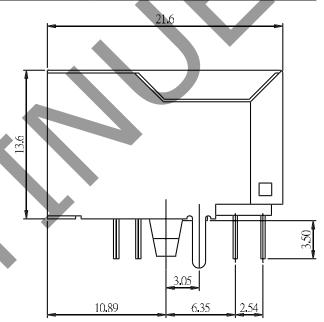
PCB: ±0.05 mm
PCB thickness: 1.6 mm
unless otherwise noted

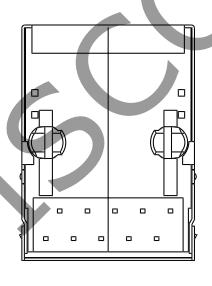
GREEN/

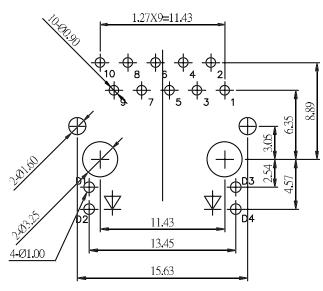
ORANGE



ITEM	DESCRIPTION	MATERIAL	PLATING/COLOR
1	insulator	PBT (UL94V-0)	black
2	contact terminals	phosphor bronze	contact area: $6 \mu''$ gold over nickel solder area: tin over nickel
3	shield	brass	nickel alloy







Recommended PCB Layout Top View

Additional Resources: Product Page

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REVISION HISTORY

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.



CUI Devices offers a one (1) year limited warranty. Complete warranty information is listed on our website.

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