

10/100Base-T Vertical RJ45 w/ LEDs

ARJC07-111071A

Request Samples



Check Inventory



16.0 x 16.7 x 16.9mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- Integrated LAN Magnetics
- Suitable for RoHS compliant reflow

Applications

- 10/100 Base-T LAN
- NIC, LoM and PC
- Industrial IoT/IoT
- Machine-to-machine (M2M)
- Industrial process control
- Industrial robotics
- Media converters

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio ($\pm 3\%$)	1CT:1CT				100kHz, 0.1V
Inductance	350			μH	100kHz, 0.1V, 8mADC
Hipot	1500			VDC	1mA Max Complies with IEEE 802.3
Operating Temperature	-40		+85	$^{\circ}\text{C}$	
Storage Temperature	-40		+85	$^{\circ}\text{C}$	
Insertion Loss	-1.0			dB	1-100MHz
Return Loss			-18	dB	1-10MHz
			-16		10-30MHz
			-14		30-60MHz
			-12		60-80MHz
			-10		80-100MHz
Crosstalk			-35	dB	1.0-100MHz
CMRR			-35	dB	1.0-100MHz

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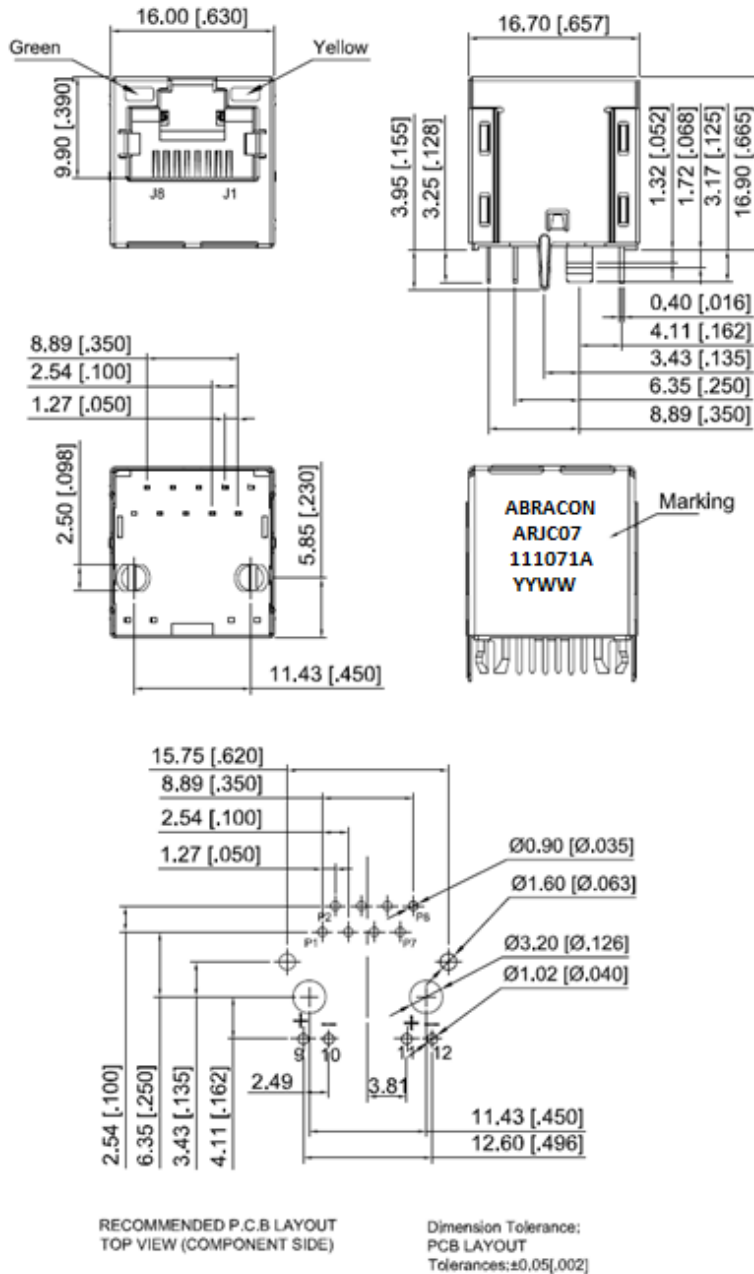


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Mechanical Specifications



****Cosmetic differences may occur and do not affect the product's form, fit or function.**



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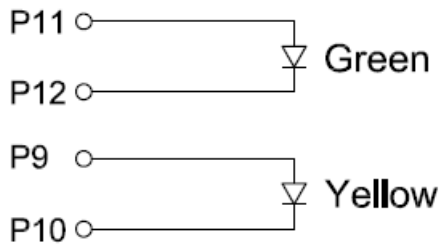
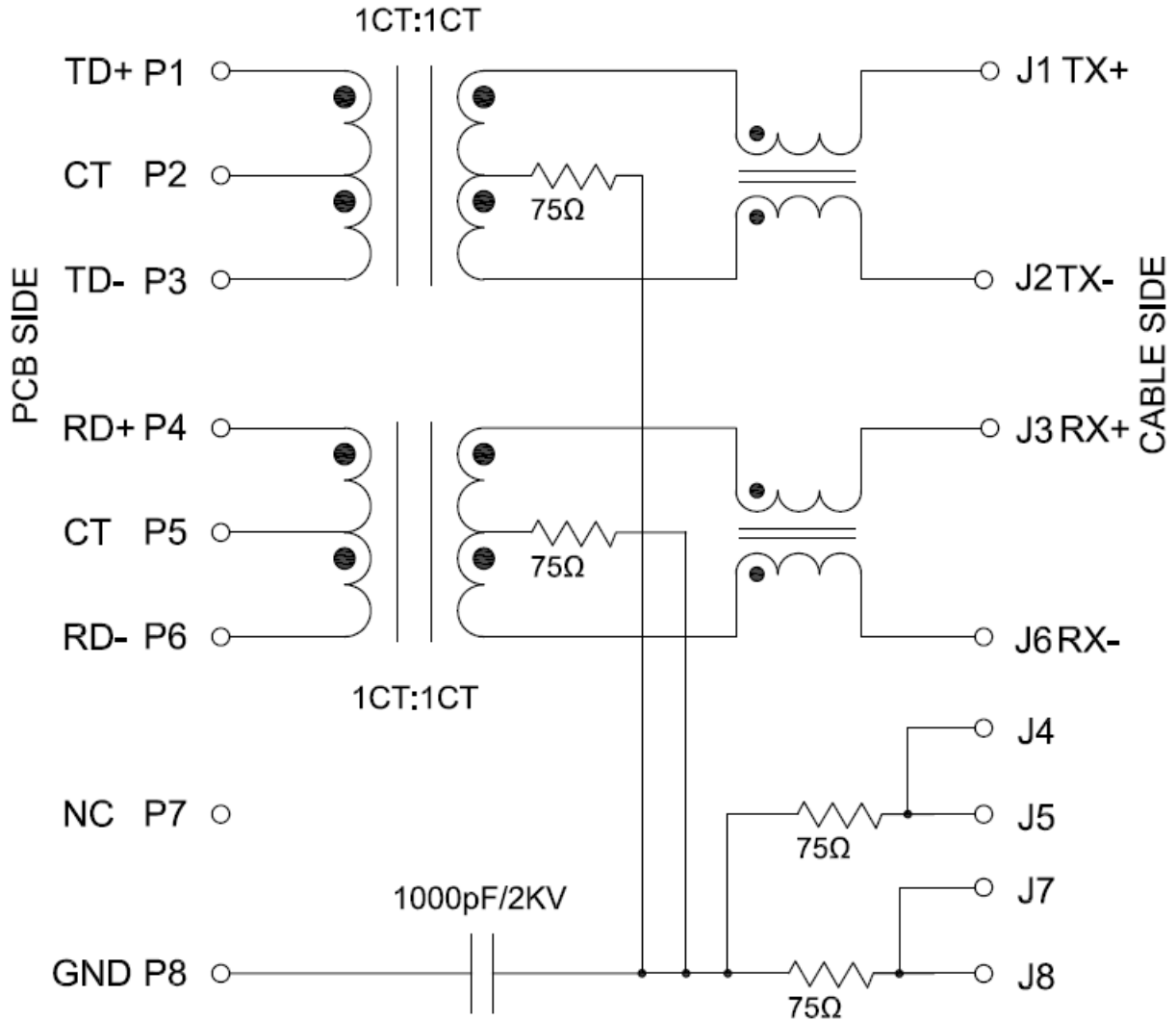


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Schematic



(Left: Green – Right: Yellow):

Color	Green	Yellow
Wavelength	565nm Typ	590nm Typ
Forward Voltage	2.2V Typ	2.1V Typ

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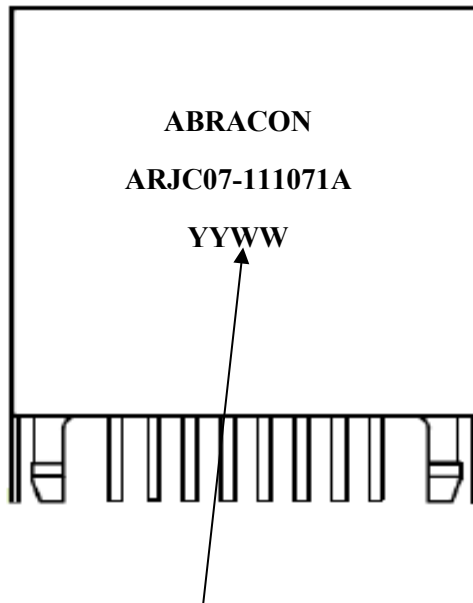


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Part Marking



YY: Year: E.g. 20 for 2020
WW: Week: E.g. 05 for the 5th
week of the year.

Marking Method = Laser Marking



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Materials

1. Housing:

Material:

PBT, UL94V-0 (for wave soldering option)

LCP, UL94V-0 (for IR reflow soldering option)

Standard Color: Black

2. Insert:

Material:

PBT, UL94V-0 (for wave soldering option)

LCP, UL94V-0 (for IR Reflow soldering option)

Contact Material: Phosphor Bronze

Plating (1): Nickel

Plating (2): Gold, 6u"

3. Metal Shell:

Material: Brass

Plating (1): Nickel

4. Contact Pin:

Material: Phosphor Bronze

Plating (1): Nickel

Plating (2): 100%Sn

5. LED:

Material: Diffused Epoxy Lens, 0.5x0.5mm Carbon Steel wireframe leads

Note: Abracon LLC will not alter any material composition, without prior written notification.



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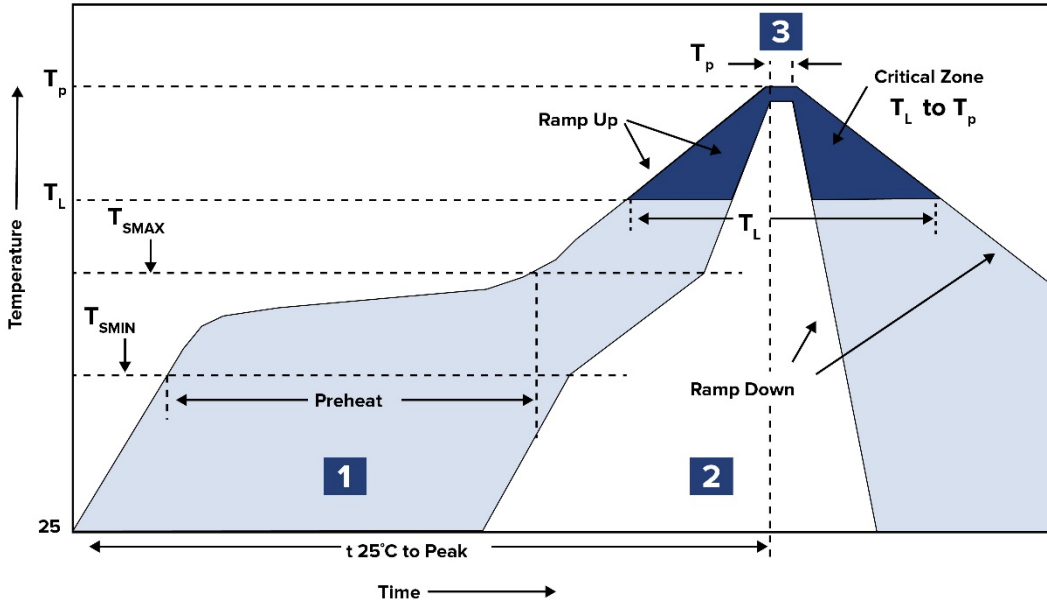


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Wave Profile



	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	120 ~ 180 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 245°C±5°C	5 sec. MAX

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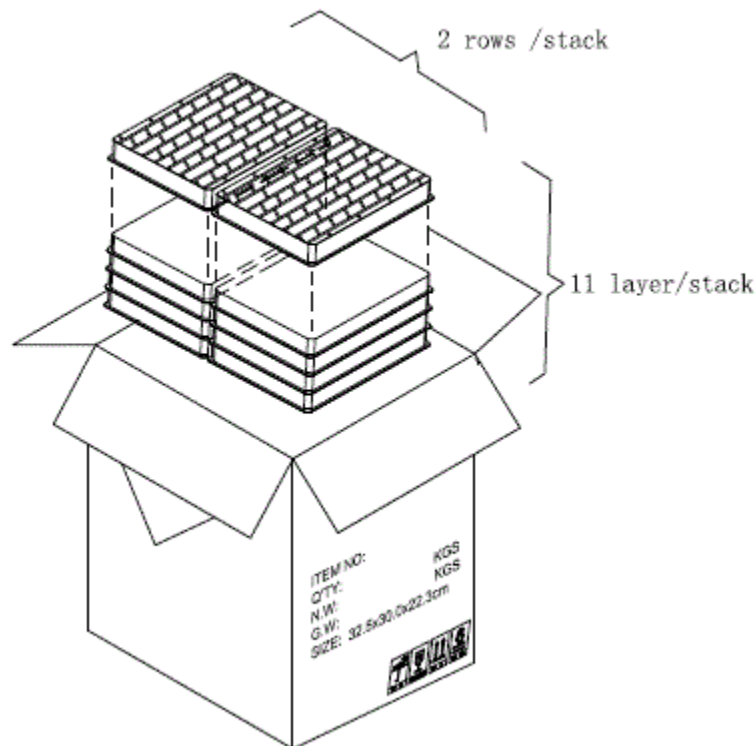
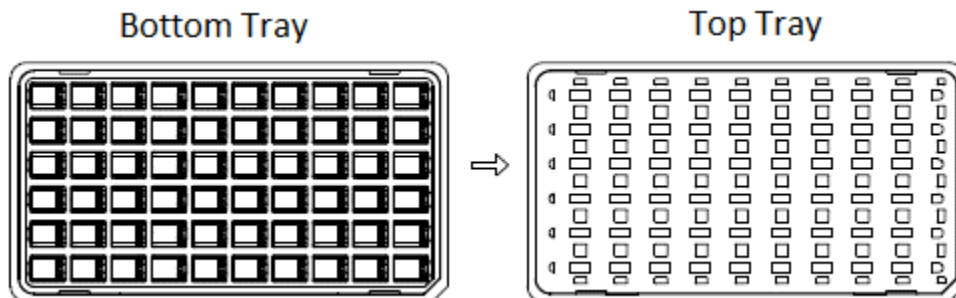


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Packaging

Bulk/Tray (60pcs/tray, 22 trays/carton)

Tray Size: 315.0 x 200.0 mm, Transparent PET



Dimensions: mm

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