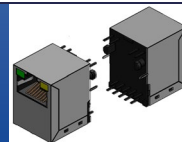


Vertical RJ45 1000 Base-T Single Port, w/ LEDs Extended Temp.



ARJ-148

Request Samples



Check Inventory



16.76 x 16.1 x 23.15 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- Compliant with IEEE802.3 standard
- Designed for Network Interface Cards (NIC), LAN-on-Motherboard (LOM) AMD PC applications, Ethernet Switch, Servers, & Access Point Routers
- High performance for maximum EMI suppression
- 350μH minimum OCL with 8mA bias current
- RoHS peak wave solder temperature 260°C

Applications

- Support 1000 Base-T applications w/ Bi-Color LEDs
- Vertical Mount with wide temperature range(-40°C~85°C)
- Applicable for Ethernet Switch, Servers, & Access Point Routers
- Provides signal conditioning, EMI suppression and signal isolation

Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Turn Ratio (±5%)	1CT:1CT				
Inductance	350			uH	100kHz, 0.1Vrms @8mA
Insertion Loss			-1.2	dB	1-100MHz
Return Loss	-16			dB	1-30MHz
	-12				30-60MHz
	-10				60-80MHz
	-8				80-1000MHz
Crosstalk	-30.0			dB	1-100MHz
CM-DMRR	-30.0			dB	1-100MHz
Hipot	1500Vrms/1mA/1Sec				Pri to Sec
Operating Temperature	-40		85	°C	See options

Operating Temperature: -40°C to +85°C

Storage Temperature: -40°C to +85°C

ARJ-148 is RoHS/RoHS II

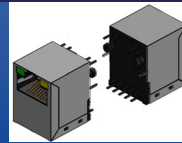


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Vertical RJ45 1000 Base-T Single Port, w/ LEDs Extended Temp.



ARJ-148

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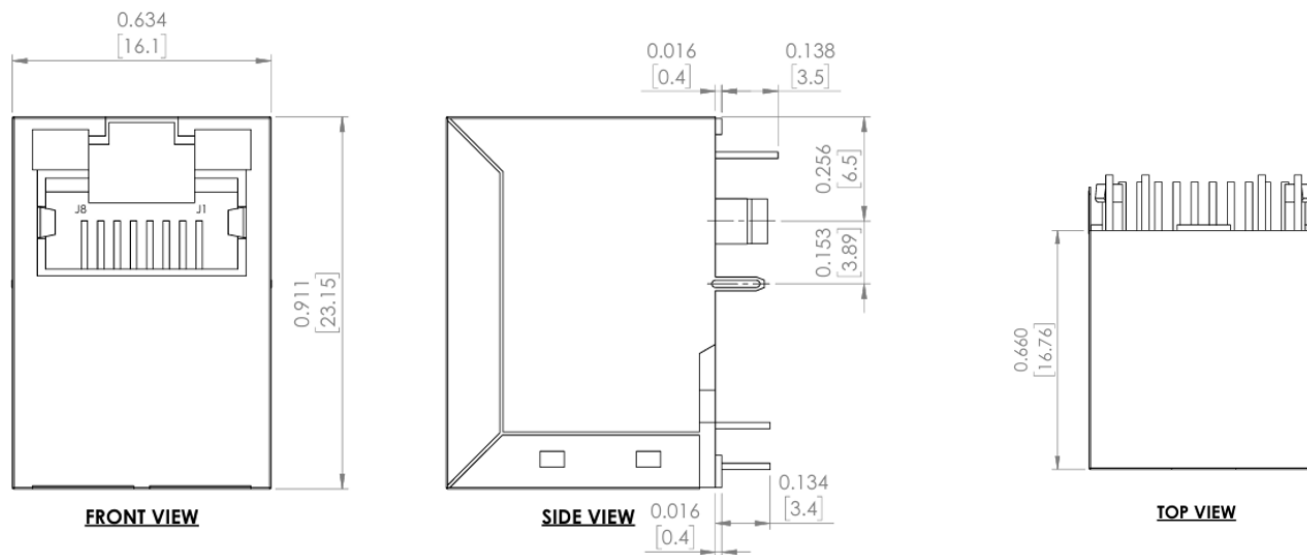


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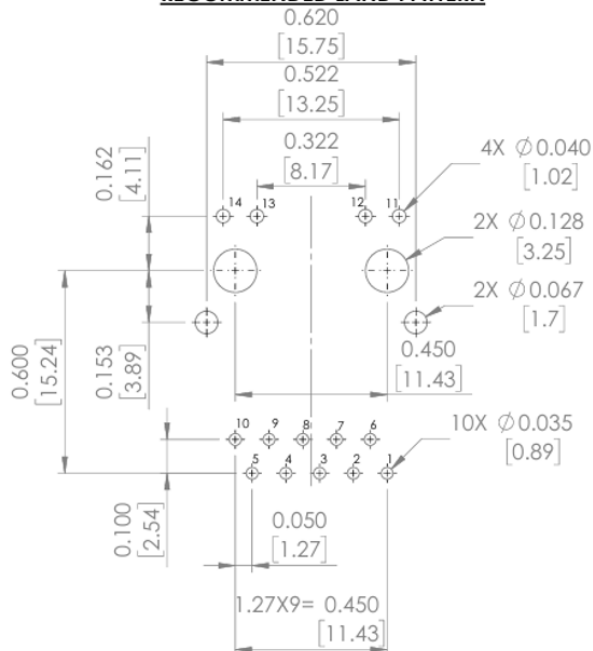


16.76 x 16.1 x 23.15 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



RECOMMENDED LAND PATTERN



Dimensions: INCHES [mm]

X.X	±0.30
X.XX	±0.25
X.XXX	±0.15
ANGLES	±1°

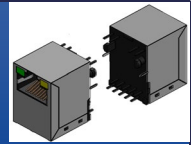


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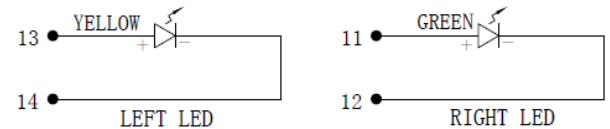
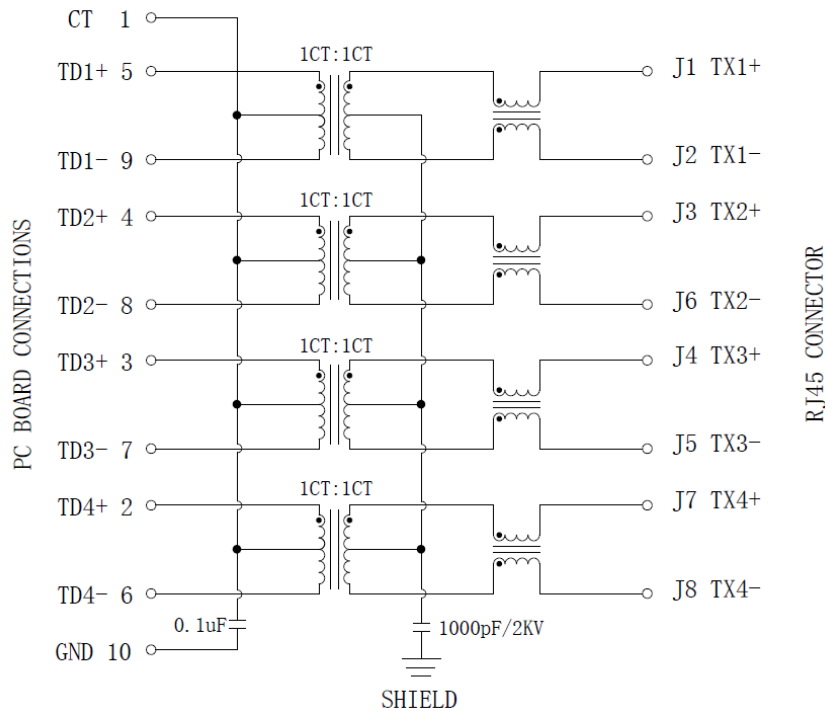


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16.76 x 16.1 x 23.15 mm
RoHS/RoHS II Compliant
MSL Level = 1

Schematic



EMITTING COLOR	λ_p (nm)	V _F @I _F =20mA	I _R @V _R =5V
GREEN	565	1.8~2.6V	10 μ A max
YELLOW	585	1.8~2.6V	10 μ A max

Material

- Shield:**
SUS 304-1/2H, Thickness 0.2mm
- Housing:**
PBT (30% GLASS FIBER, UL94V-0)
- Pins:**
Brass C2680R-H Thickness=0.35mm
- Contact:**
PHOSPHOR BRONZE, C5210R-EH, Thickness 0.35mm
- Gold Plating:**
30 micro inches

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

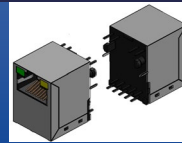


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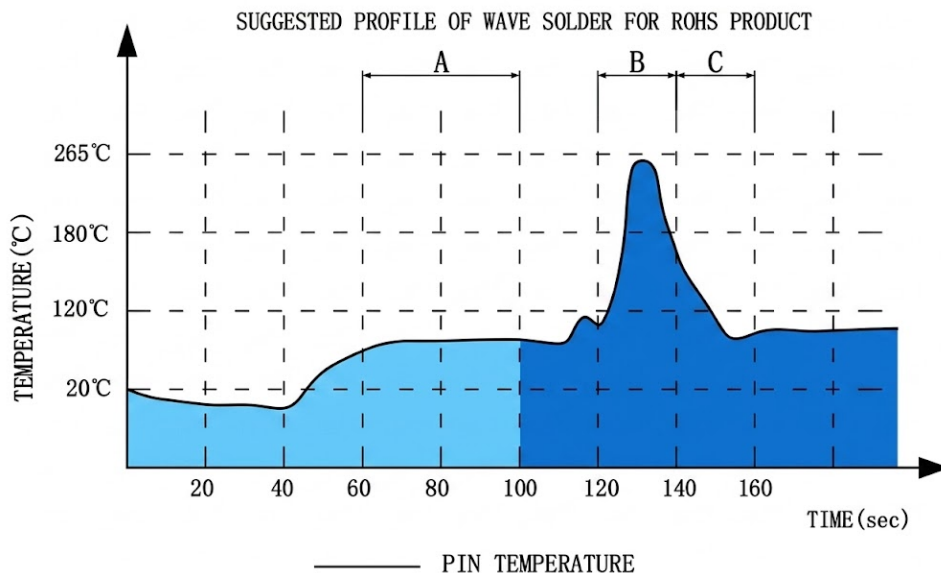


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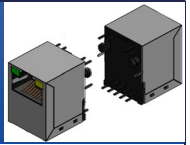
16.76 x 16.1 x 23.15 mm
RoHS/RoHS II Compliant
MSL Level = 1

Wave Soldering Profile



Zone	Description	Temperature	Times
A	Preheat	$T_{SMIN} \sim T_{SMAX}$ 25°C ~ 120°C	100 sec. MAX
B	Wave Peak Temperature	T_P 250°C	5 sec.
C	Cooling Rate	$T_{COOLING}$	-5°C/Sec

Vertical RJ45 1000 Base-T Single Port, w/ LEDs Extended Temp.



ARJ-148

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16.76 x 16.1 x 23.15 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

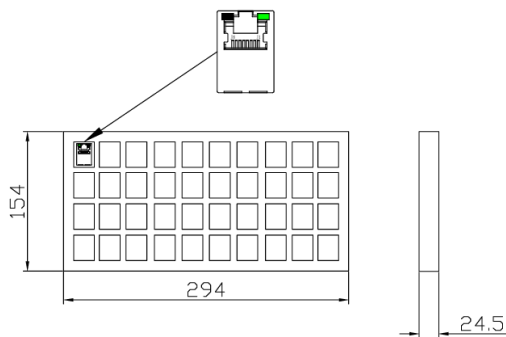
PACKAGING UNIT: 40PCS/TRAY

PACKAGING MATERIAL: PVC

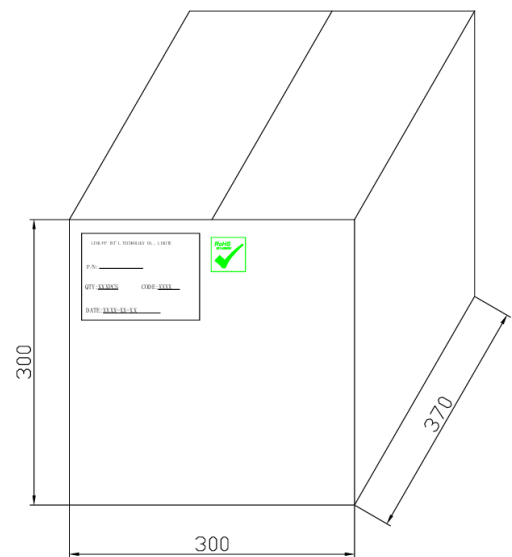
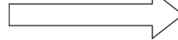
OUTER CARTON UNIT: 720PCS/18TRAY/CARTON

CARTON SIZE: 370mm x 300mm x 300mm

GROSS WEIGHT: 7.5KG



18Tray



ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS), which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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