

RJ45 10/100 Base-T Jack with Magnetic Module



ARJ11D Series

Request Samples



Check Inventory



Various sizes

RoHS/RoHS II Compliant

MSL Level = N/A

Features

- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- LAN Magnetic with RJ45
- Suitable for RoHS compliant reflow

Applications

- 10, 100 Base-T LAN
- NIC, LoM and PC

Electrical Specifications

Part Number	Turns Ratio $\pm 5\%$		EMI Fingers	LEDs L/R	Insertion Loss (dB TYP)	Return Loss (dB TYP @100 Ω $\pm$ 15 Ω)			
	TX	RX			1- 65 MHz	1- 10 MHz	10-30 MHz	30-60 MHz	60-80 MHz
ARJ11D-MCSA-LU2	1CT:1	1CT:1CT	Yes	NONE	-1	-20	-16	-12	-10
ARJ11D-MASB-B-A-□MU2	1CT:1CT	1CT:1CT	Yes	Y/G	-1	-20	-16	-12	-10
ARJ11D-MCSC-LU2	1CT:1	1CT:1CT	Yes	NONE	-1	-20	-16	-12	-10
ARJ11D-MDSD-A-B-□LT2	1CT:1	1CT:1	No	G/Y	-1	-20	-16	-12	-10
ARJ11D-MCSD-LT2	1CT:1	1CT:1	Yes	NONE	-1	-20	-16	-12	-10
ARJ11D-MDSE-A-B-□MU2	1CT:1CT	1CT:1CT	No	G/Y	-1	-20	-16	-12	-10
ARJ11D-MASE-A-B-□MU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1	-20	-16	-12	-10
ARJ11D-MDSG-B-A-□MU2	1CT:1CT	1CT:1CT	No	Y/G	-1	-20	-16	-12	-10
ARJ11D-MASG-B-A-□MU2	1CT:1CT	1CT:1CT	Yes	Y/G	-1	-20	-16	-12	-10
ARJ11D-MASG-A-A-□MU2	1CT:1CT	1CT:1CT	Yes	G/G	-1	-20	-16	-12	-10
ARJ11D-MESH-LU2	1CT:1	1CT:1CT	No	NONE	-1	-20	-16	-12	-10
ARJ11D-MDSH-A-B-□LU2	1CT:1	1CT:1CT	No	G/Y	-1	-20	-16	-12	-10
ARJ11D-MASH-B-A-□LU2	1CT:1	1CT:1CT	Yes	Y/G	-1	-20	-16	-12	-10
ARJ11D-MBSJ-A-DA-HLT2	1CT:1	1CT:1	Yes	G/O_G	-1	-20	-16	-12	-10
ARJ11D-MBSK-A-DA-HMU2	1CT:1CT	1CT:1CT	Yes	G/O_G	-1	-20	-16	-12	-10
ARJ11D-MBSK-A-B-IMU2	1CT:1CT	1CT:1CT	Yes	G/Y	-1	-20	-16	-12	-10
ARJ11D-MBSL-A-DA-HLU2	1CT:1	1CT:1CT	Yes	G/O_G	-1	-20	-16	-12	-10



12117 Bee Caves Rd, Bldg-3, Suite 200

Bee Cave, TX 78738

Phone: 512-371-6159 Fax: 512-351-8858

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Part Number	Crosstalk (dB TYP)			Common Mode Rejection (dB TYP)		Hipot (Vrms) @60Hz
	1-30 MHz	30-60 MHz	60-100 MHz	1-50 MHz	50-150 MHz	
ARJ11D-MCSA-LU2	-40	-35	-30	-30	-20	1500
ARJ11D-MASB-B-A-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MCSC-LU2	-40	-35	-30	-30	-20	1500
ARJ11D-MDSD-A-B-□LT2	-40	-35	-30	-30	-20	1500
ARJ11D-MCSD-LT2	-40	-35	-30	-30	-20	1500
ARJ11D-MDSE-A-B-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MASE-A-B-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MDSG-B-A-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MASG-B-A-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MASG-A-A-□MU2	-40	-35	-30	-30	-20	1500
ARJ11D-MESH-LU2	-40	-35	-30	-30	-20	1500
ARJ11D-MDSH-A-B-□LU2	-40	-35	-30	-30	-20	1500
ARJ11D-MASH-B-A-□LU2	-40	-35	-30	-30	-20	1500
ARJ11D-MBSJ-A-DA-HLT2	-40	-35	-30	-30	-20	1500
ARJ11D-MBSK-A-DA-HMU2	-40	-35	-30	-30	-20	1500
ARJ11D-MBSK-A-B-IMU2	-40	-35	-30	-30	-20	1500
ARJ11D-MBSL-A-DA-HLU2	-40	-35	-30	-30	-20	1500

□: LED Polarity Option

ARJ11D-MA: E, F or G

ARJ11D-MD: E, F or G

Contact Abracon for more custom configurations. See options to build a custom configuration.



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Environmental Specifications

- Storage Temp: -40°C TO +85°C.
- Operating Temp: 0°C TO +70°C.
- ARJ11D Series is **RoHS Compliant**. Operating life: 750 Cycles min.

Part Identification

ARJ11D - - - -

Mechanical
MA ~ ME (Please see mechanical section)

Schematic
SA ~ SR (Please see schematic section)

Left LED color (e.g. B for Yellow, AB for Green - Yellow)
Blank: No LED
A: Green
B: Yellow
C: Amber
D: Orange

Right LED color (e.g. B for Yellow, AB for Green - Yellow)
Blank: No LED
A: Green
B: Yellow
C: Amber
D: Orange

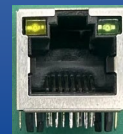
LED polarity
Blank: No LED
E ~ I (Please see LED polarity section)

Turns Ratio (Tx)
K: 1CT:1.41
L: 1CT:1
M: 1CT:1CT
N: 1.414:1CT
O: 1CT:1.41CT
P: 1:2CT
Q: 1:1.414CT
R: 1CT:2.5

Turns Ratio (Rx)
S: 1CT:1.41
T: 1CT:1
U: 1CT:1CT
V: 1.414:1CT
W: 1CT:1.41C T
X: 1:2CT
Y: 1:1.414CT
Z: 1CT:2.5

Gold plating
1: 3u “
2: 6u “
3: 15u “
4: 30u “
5: 50u “

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MSL Level = N/A

Materials

ARJ11D-MA/MC/MD/ME only:

- Housing Material:**
MATERIAL: NYLON GF (Fr50) UL94V-0
STANDARD COLOR: BLACK
- Insert Material:**
MATERIAL: Phos-Bronze C5210 EH---0.35mm Thickness
Insert -PBT GF UL94V-0
PLATING (1) NICKEL
PLATING (2) 100%Sn
PLATING (3) GOLD (3u " ~50u ") (see options)
- Plate Material:**
PBT GF UL 94V-0
- Contact pin Material:**
MATERIAL: Phos-Bronze C5191---0.35mm Thickness
1.PLATING (1) NICKEL
2.PLATING (2) 100%Sn
- Shielding Material:**
BRASS C2680 PLATING NICKEL

ARJ11D-MB only:

- Housing Material:**
MATERIAL: NYLON GF (Fr50) UL94V-0
STANDARD COLOR: BLACK
- Insert Material:**
MATERIAL: Phos-Bronze C5210 EH---0.35mm Thickness
Insert -PBT GF UL94V-0
PLATING (1) NICKEL
PLATING (2) 100%Sn
PLATING (3) GOLD (3u " ~50u ") (see options)
- Contact pin Material:**
MATERIAL: Phos-Bronze C5191---0.35mm Thickness
1.PLATING (1) NICKEL
2.PLATING (2) 100%Sn
- Shielding Material:**
BRASS C2680 PLATING NICKEL

Note: No material substitutions allowed without prior approval by customers in writing

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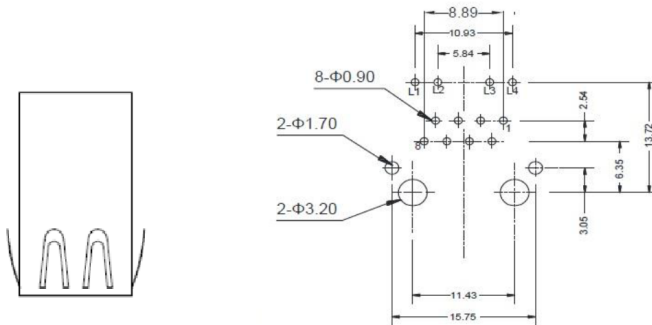
Various sizes

RoHS/RoHS II Compliant

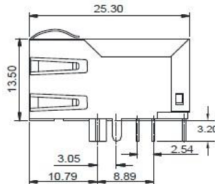
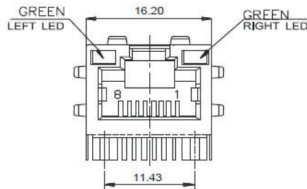
MSL Level = N/A

Mechanical Dimensions

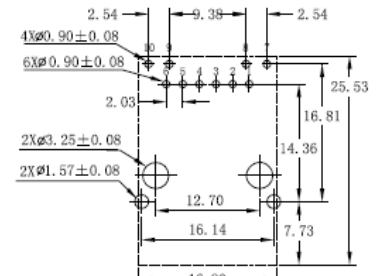
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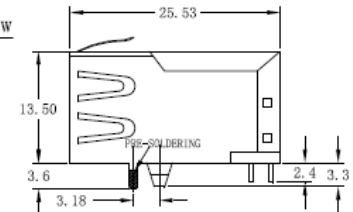
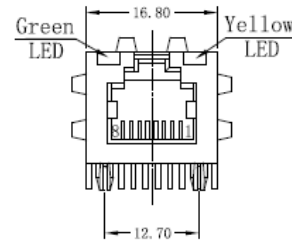
Suggested PCB Layout (Component Side)



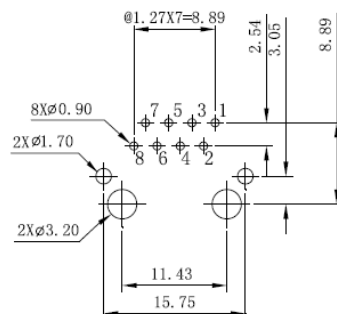
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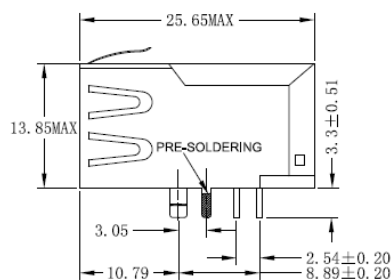
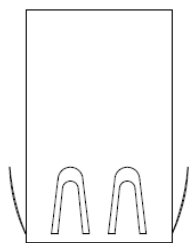
PC Board Layout
Component Side Shown



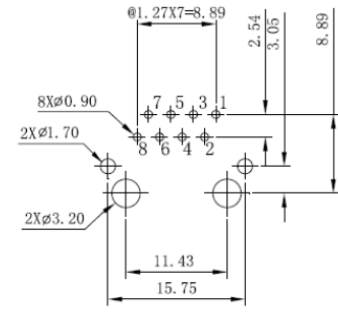
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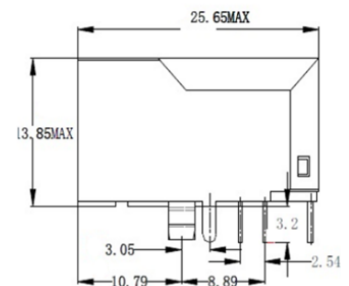
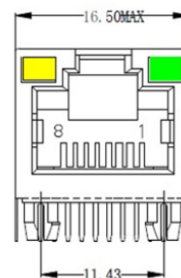
PC Board Layout
Component Side Shown



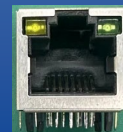
MD



PC Board Layout
Component Side Shown



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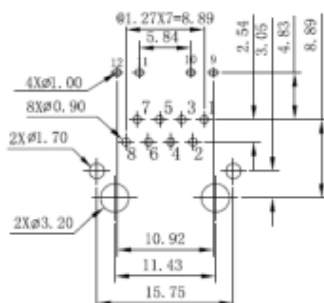


Various sizes

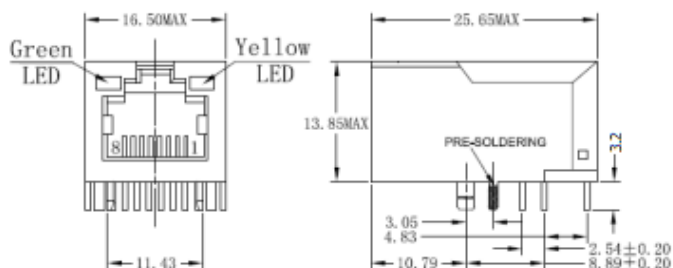
RoHS/RoHS II Compliant

MSL Level = N/A

ME



PC Board Layout
Component Side Shown



Dimension: mm. All tolerances are ± 0.25 unless otherwise specified

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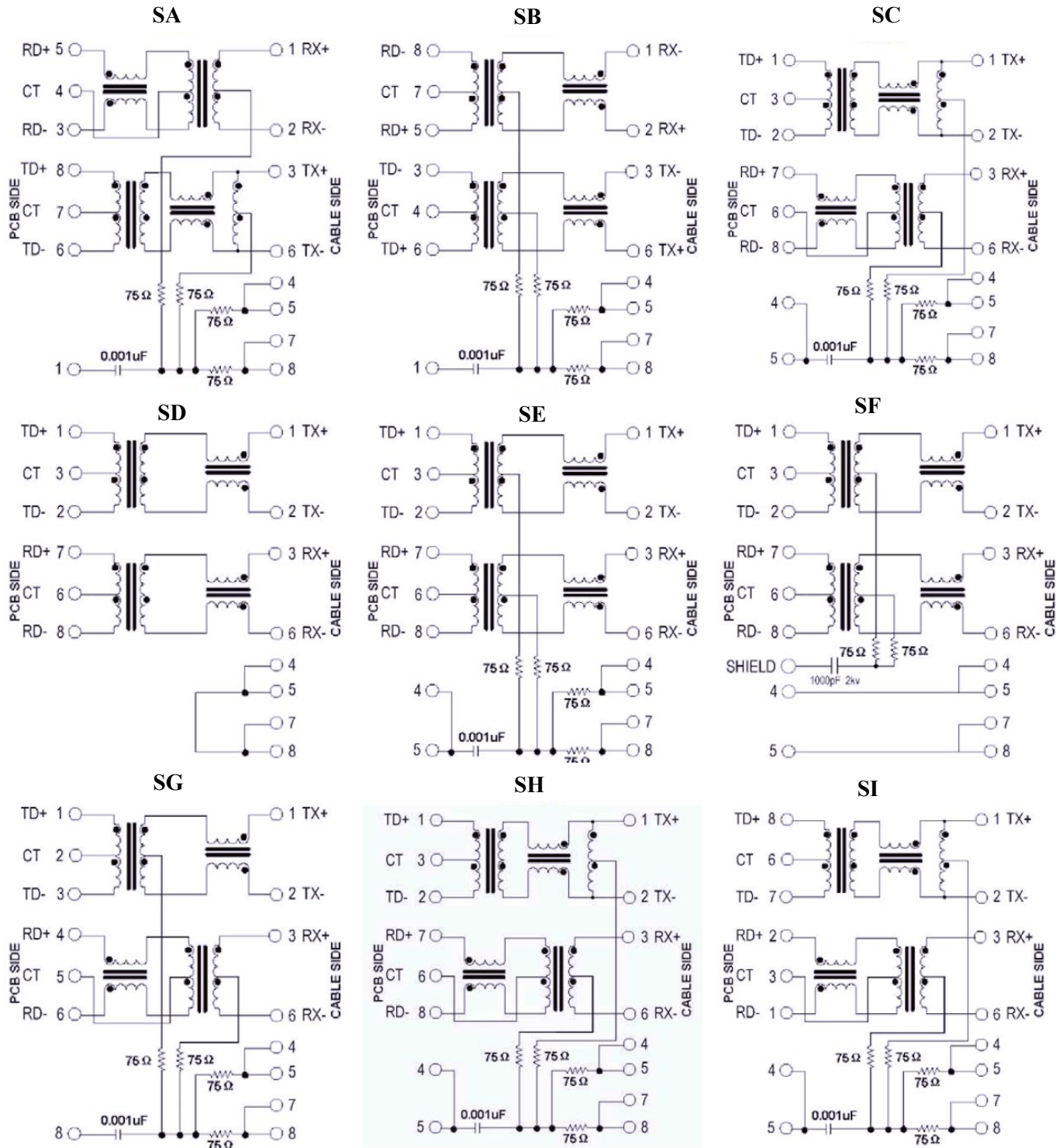


Various sizes

RoHS/RoHS II Compliant

MSL Level = N/A

Schematics



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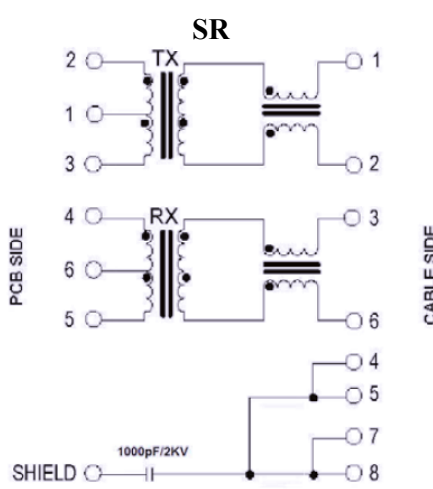
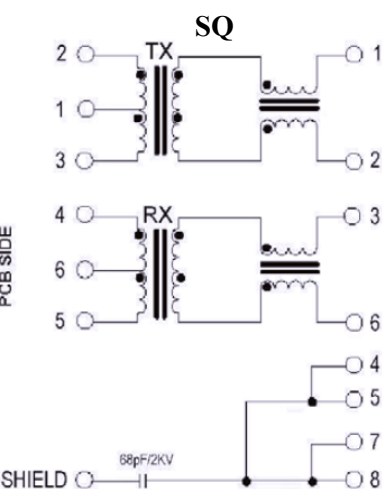
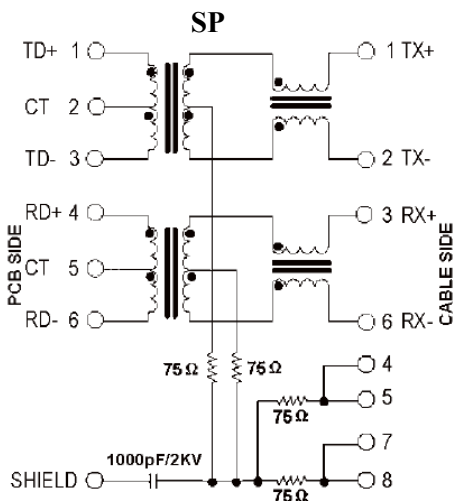
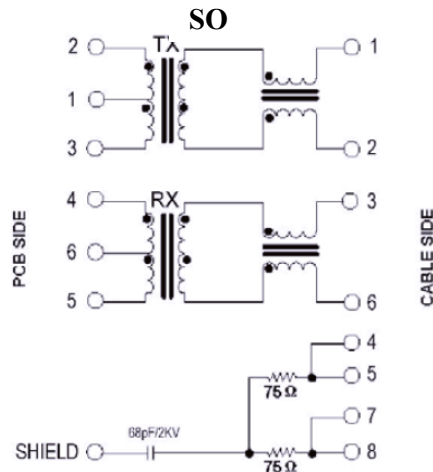
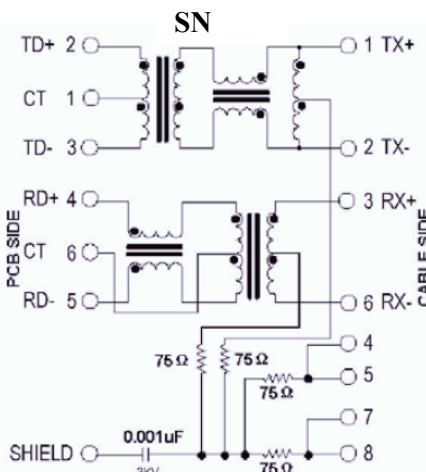
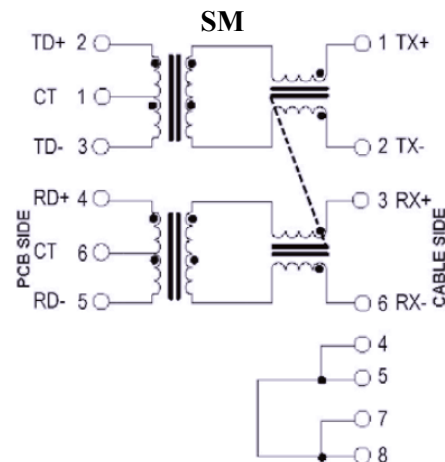
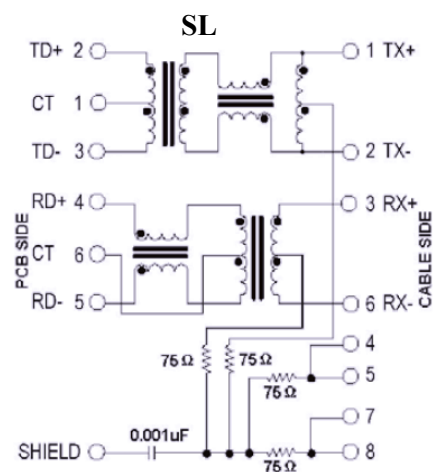
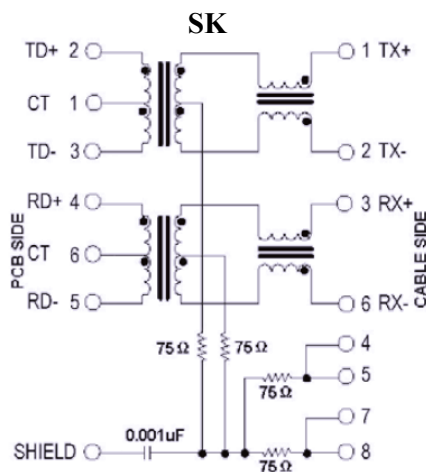
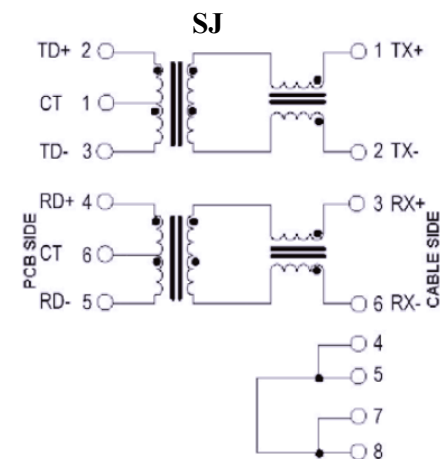
Check Inventory



Various sizes

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MSL Level = N/A

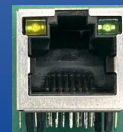


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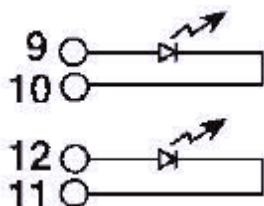
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RoHS/RoHS II Compliant

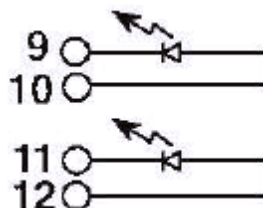
MSL Level = N/A

LED polarity

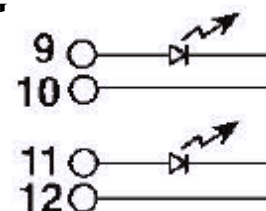
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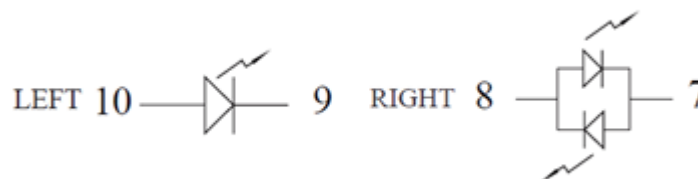
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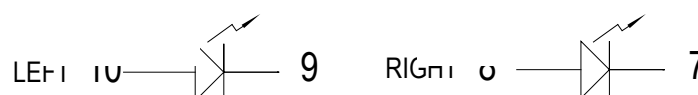
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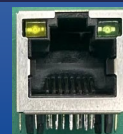
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J



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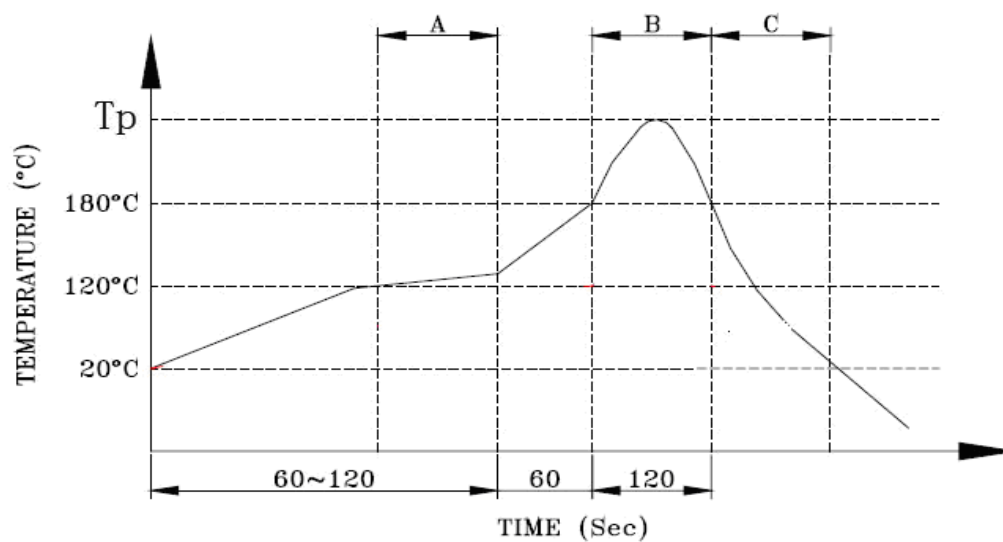


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MSL Level = N/A

Reflow Profile



—— PIN TEMPERATURE

A. Preheating B. Soldering C. Gradual Cooling

Zone	Description	Temperature	Times
1	Preheat	150°C ~ 180°C	60 ~ 120 sec.
2	Peak heat	Tp 250°C±10°C	5 sec. MAX

Ref.

Solder paste: Sn/3.0Ag/0.5Cu

Ramp up rate: 3°C/s Max.

Ramp down rate: 6°C/s Max.

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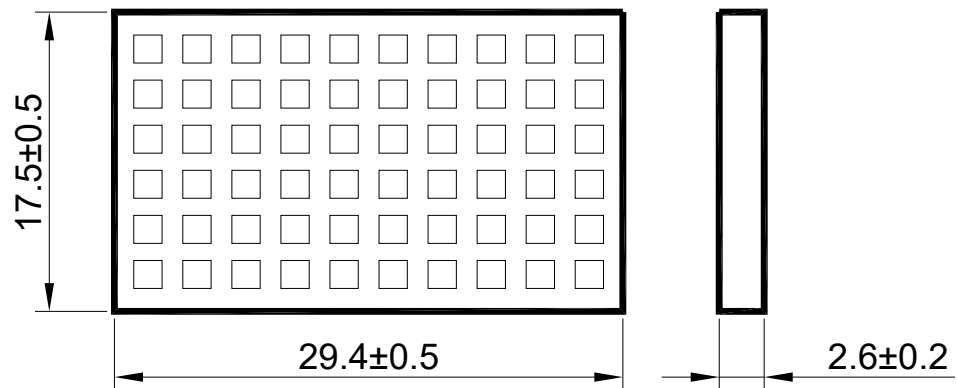
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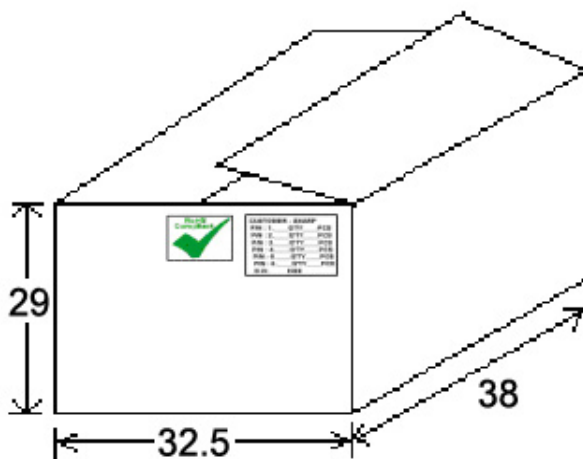
MSL Level = N/A

Packing

2.0 Packing: 60pcs/tray
Packaging material: PET



Outer carton unit : 1080 pcs/ 18 Trays/box



Dimensions: cm



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