

RJ45 10/100 Base-T Jack with Magnetic Module



16.26 x 13.84 x 21.59mm

ARJ11D

RoHS
Compliant

FEATURES:

- Available with or without LED
- Suitable CAT 5 & 6 cable and UTP
- Comply IEEE 802.3ab
- LAN Magnetic with RJ4
- Suitable for RoHS compliant reflow

APPLICATIONS:

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

STANDARD SPECIFICATIONS at 25°C

Operating temperature range: 0°C to +70°C Storage temperature range: -40°C to +85°C

| Part Number | Turns Ratio | | EMI Fingers | LEDs L/R | Insertion Loss (dB TYP) 1-65 MHz | Return Loss (dB TYP @100Ω±15Ω) | | | |
|-----------------------|-------------|---------|-------------|----------|----------------------------------|--------------------------------|-----------|-----------|-------------|
| | TX | RX | | | | 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 | Yes | 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-MBSL-A-DA-HLU2 | 1CT:1 | 1CT:1CT | Yes | G/O G | -1 | -20 | -16 | -12 | -10 |

| 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-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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Revised: 05.03.11

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16.26 x 13.84 x 21.59mm

ARJ11D

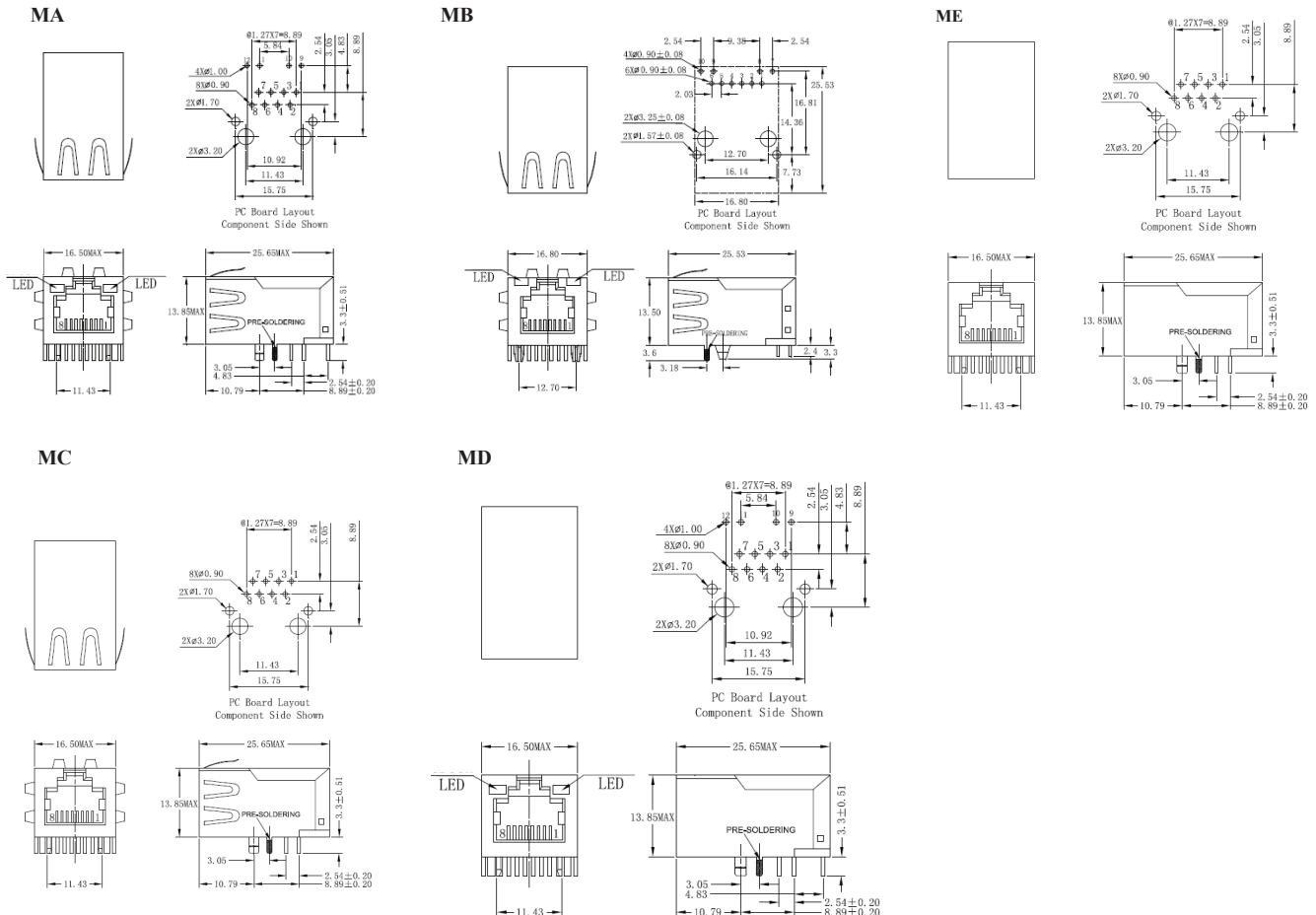
RoHS
Compliant

OPTIONS AND PART IDENTIFICATION

ARJ11D - - - - - - -

| Mechanical | Schematic | Left LED color (e.g. B for Yellow, AB for Green-Yellow) | Right LED color (e.g. B for Yellow, AB for Green-Yellow) | LED polarity | Turns Ratio (Tx) | Turns Ratio (Rx) | Gold plating |
|---|---|---|---|---|--|--|--|
| MA, MB (Please see mechanical section) | SA ~ SR (Please see schematic section) | Blank: No LED A: Green B: Yellow C: Amber D: Orange | Blank: No LED A: Green B: Yellow C: Amber D: Orange | Blank: No LED E ~ I (Please see 7.0 LED polarity section) | 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 | S: 1CT:1.41 T: 1CT:1 U: 1CT:1CT V: 1.414:1CT W: 1CT:1.41CT X: 1:2CT Y: 1:1.414CT Z: 1CT:2.5 | 1: 3u " 2: 6u " 3: 15u " 4: 30u " 5: 50u " |

MECHANICAL DIMENSIONS



Dimension: mm. All tolerances are ±0.25

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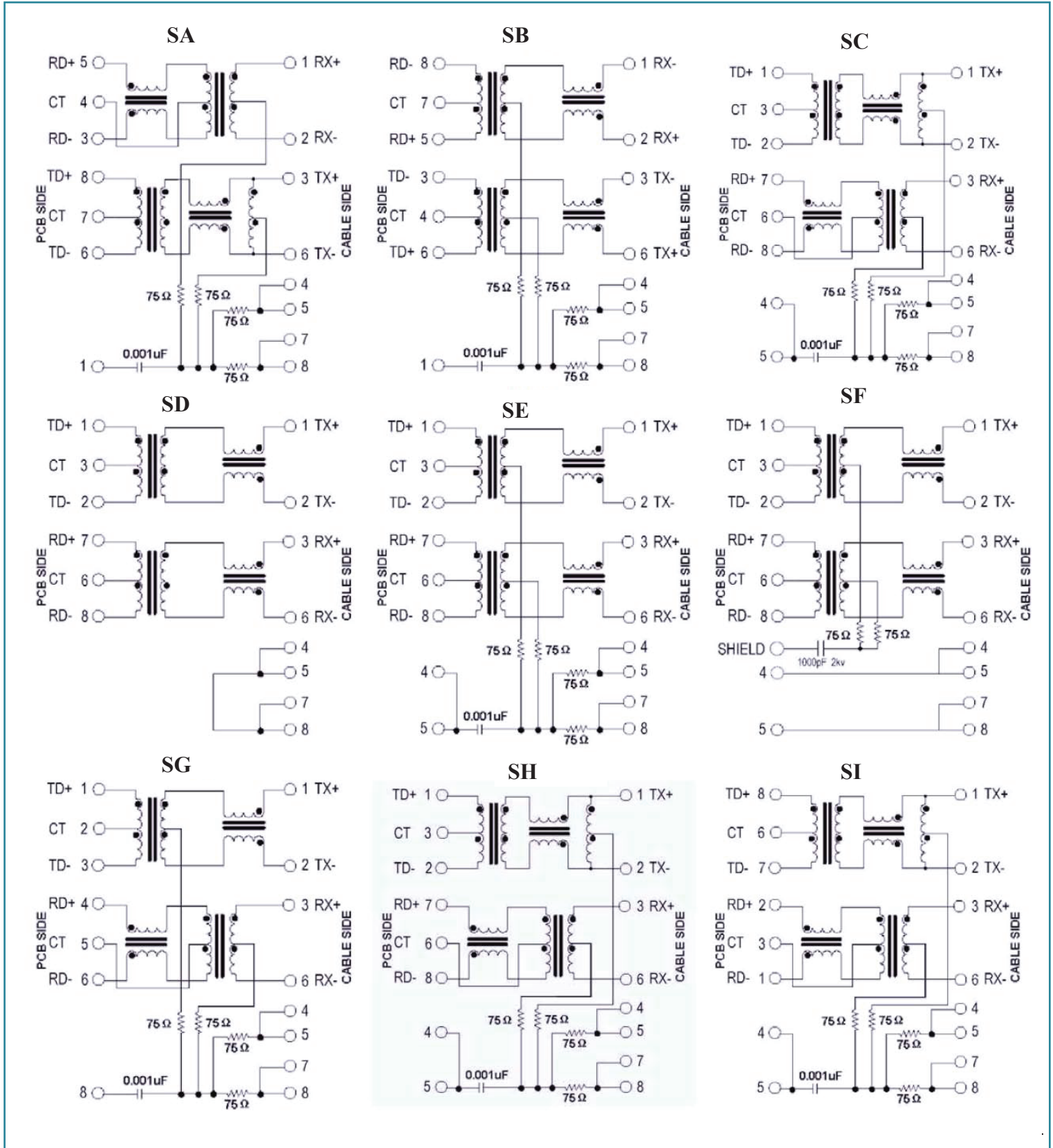


16.26 x 13.84 x 21.59mm

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SCHEMATICS



RJ45 10/100 Base-T Jack with Magnetic Module

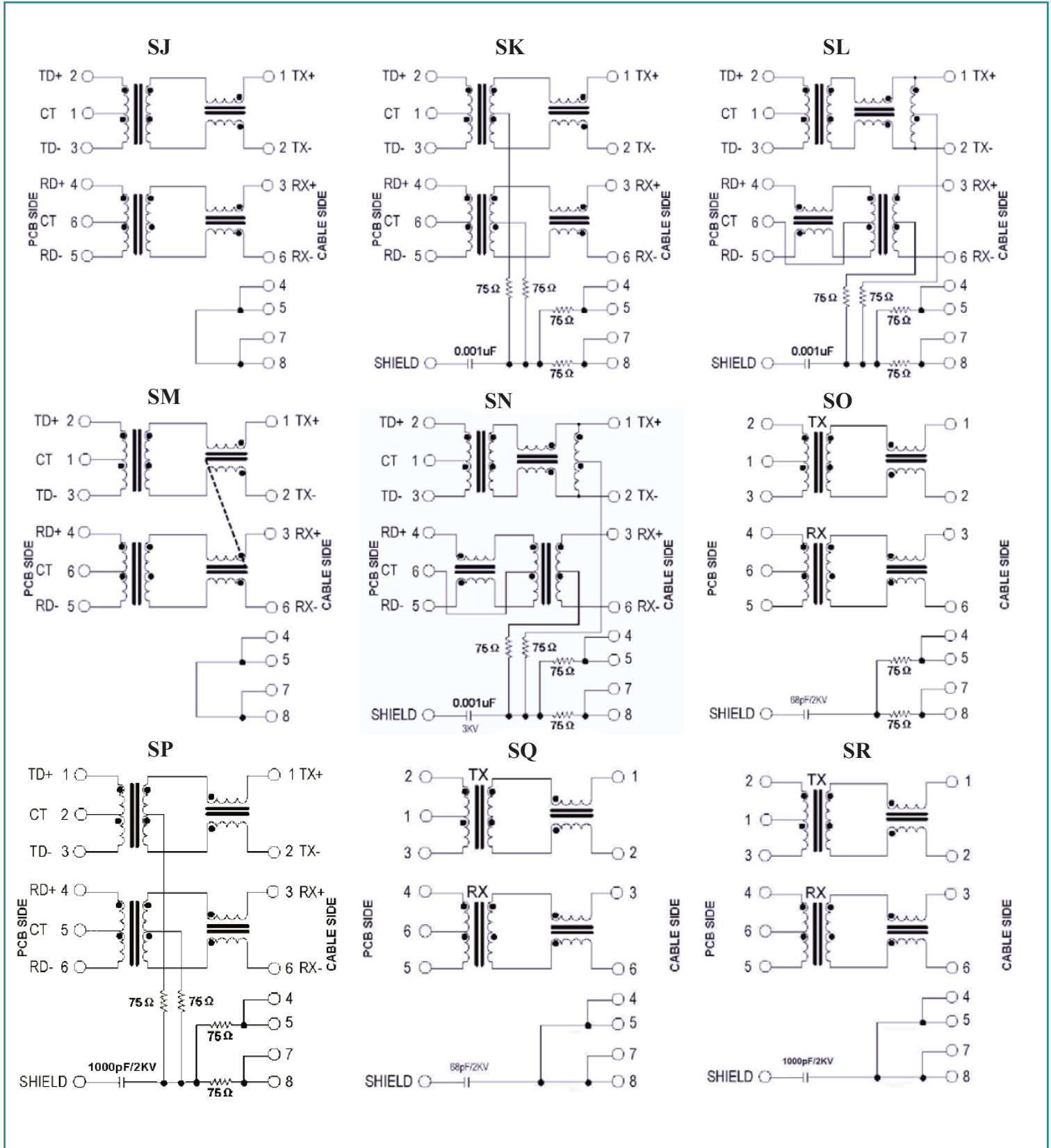


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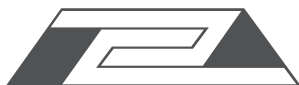
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SCHEMATICS - continued



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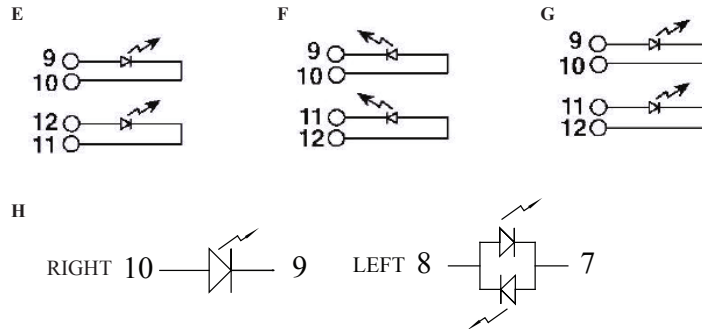
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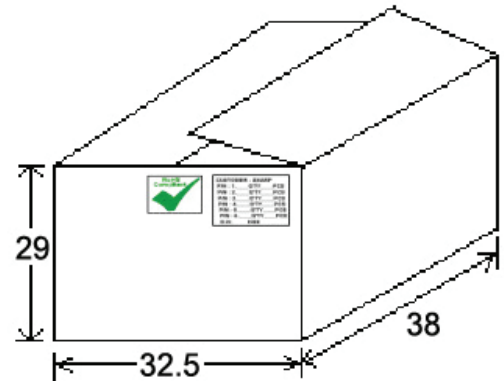
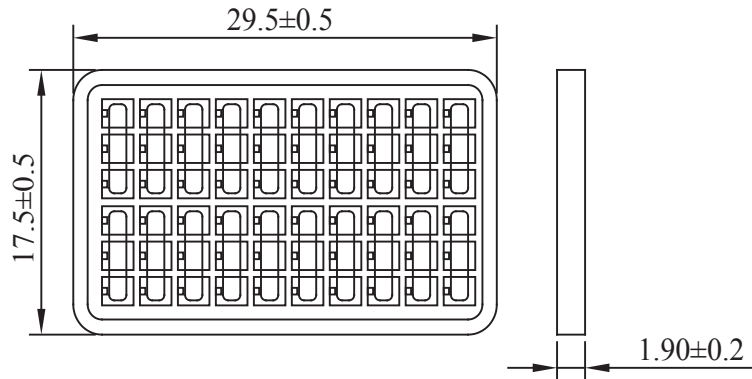
LED POLARITY



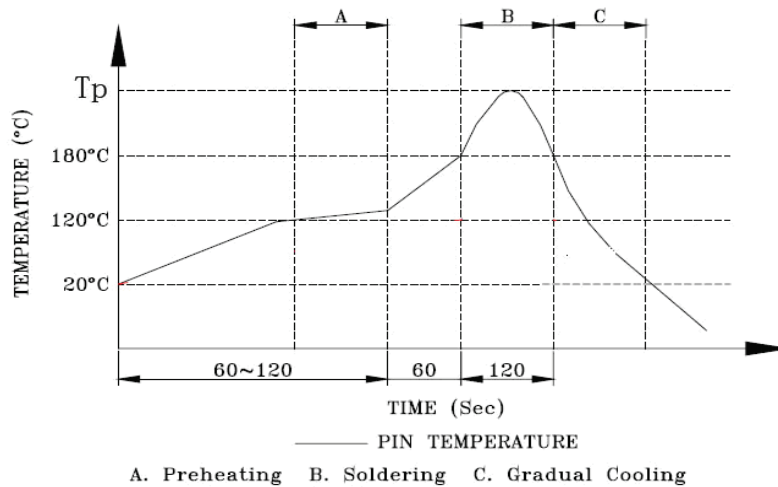
PACKING: 60pcs/tray

Packing 60pcs/tray
Packaging material: PET

Outer carton unit 1320 pcs/ 22 Trays/box



REFLOW PROFILE:



Peak temperature(Tp) : 250 ± 10°C
Peak temperature(Tp) time : 5sec max

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