

# RJ45 10/100 Base-T Jack with Magnetic Module

ARJ11D

RoHS  
Compliant



16.26 x 13.84 x 21.59mm

## 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

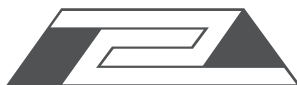
| Part Number           | Turns Ratio |         | EMI Fingers | LEDs L/R | Insertion Loss (dB TYP) 1-65 MHz | Return Loss (dB TYP @100Ω±15Ω) |           |           |             |
|-----------------------|-------------|---------|-------------|----------|----------------------------------|--------------------------------|-----------|-----------|-------------|
|                       | 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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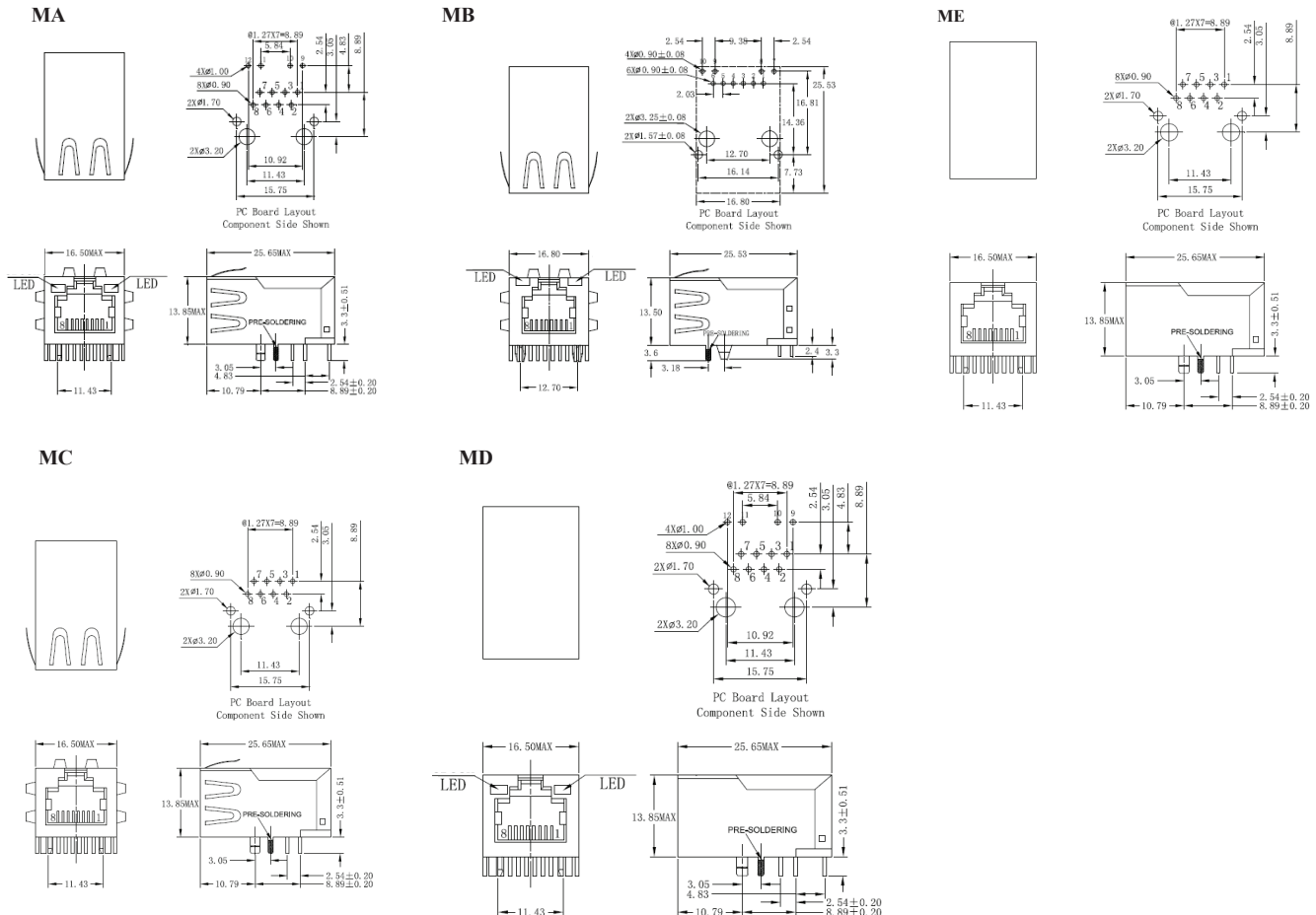
16.26 x 13.84 x 21.59mm

## OPTIONS AND PART IDENTIFICATION

ARJ11D -  -  -  -  -  -  -

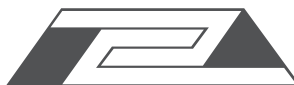
| Mechanical                                | Schematic                                 | Left LED color<br>(e.g. B for Yellow,<br>AB for Green-Yellow)   | Right LED color<br>(e.g. B for Yellow,<br>AB for Green-Yellow)  | LED polarity                                                    | Turns Ratio (Tx)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

## MECHANICAL DIMENSIONS



Dimension: mm. All tolerances are  $\pm 0.25$

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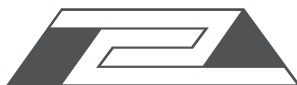
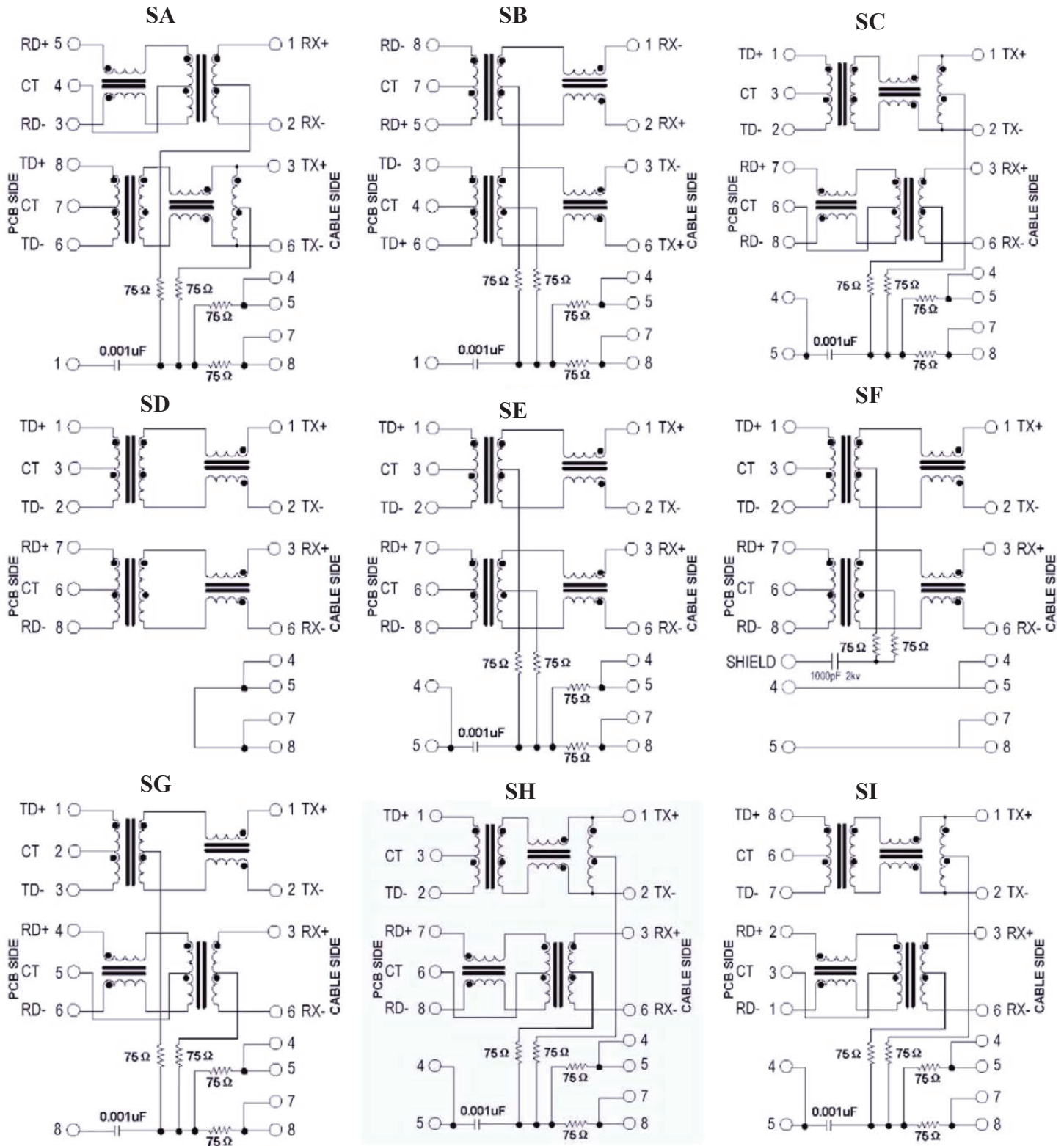
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## SCHEMATICS



# RJ45 10/100 Base-T Jack with Magnetic Module

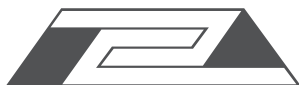
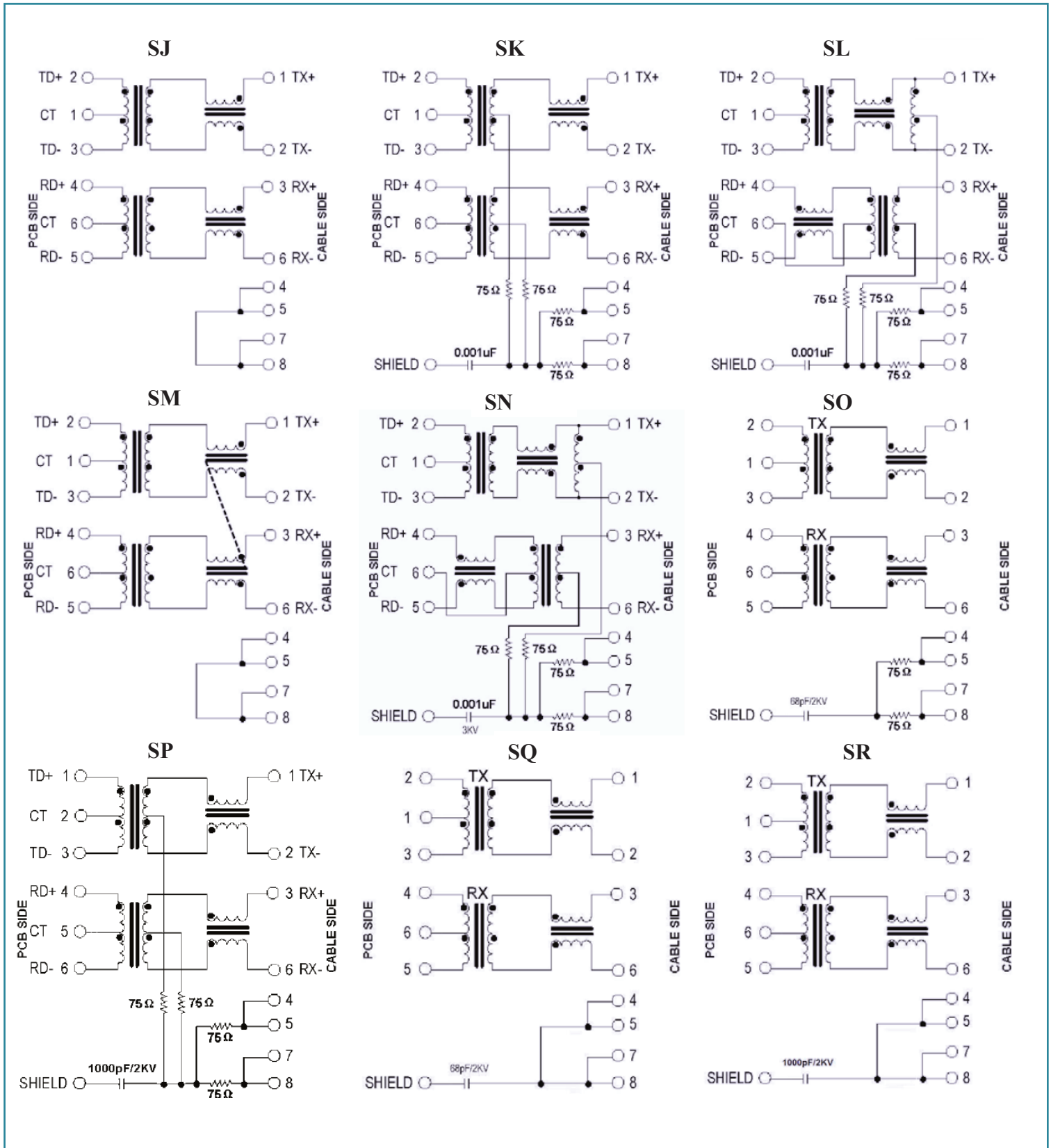
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## SCHEMATICS - continued



# RJ45 10/100 Base-T Jack with Magnetic Module

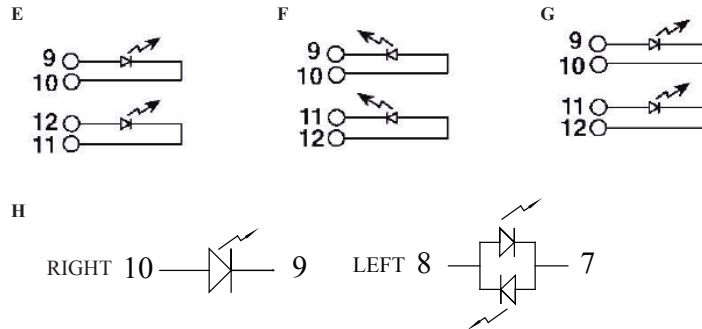
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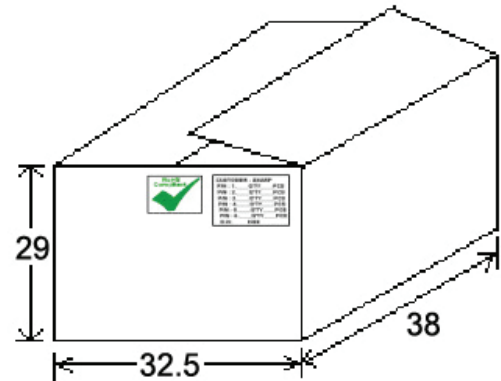
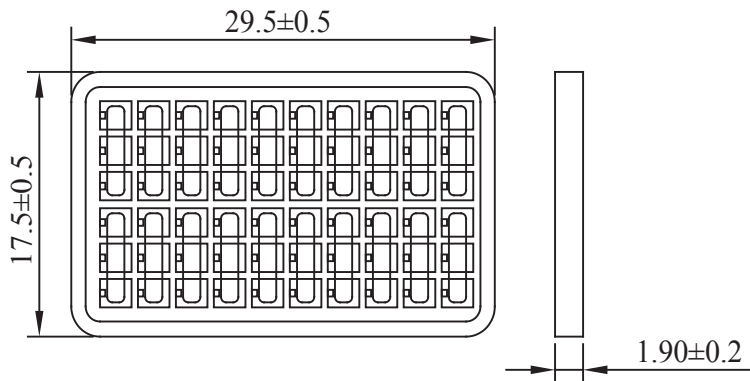
## LED POLARITY



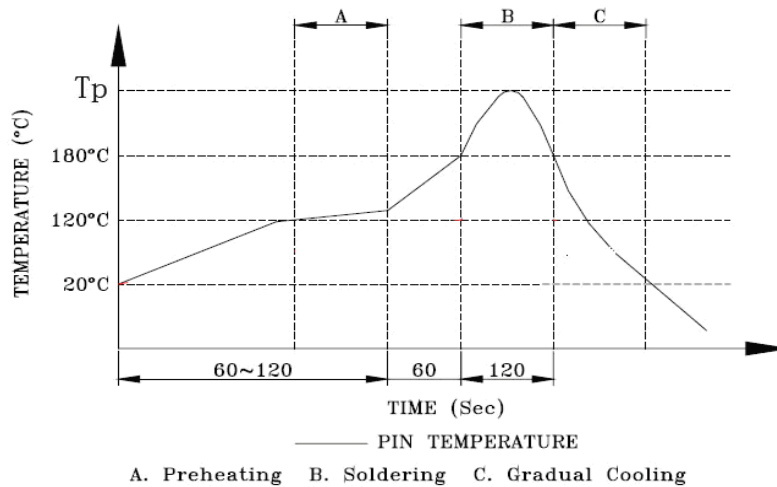
## PACKING: 60pcs/tray

Packing 60pcs/tray  
Packaging material: PET

Outer carton unit 1320 pcs/ 22 Trays/box

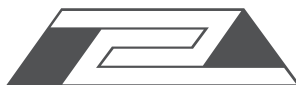


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