

# RJ45 1000 Base-TX Jack with Magnetic Module

ARJ11E

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:

- 1000 Base-TX 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 | Insertion Loss (dB MAX) | Return Loss (dB MIN @100Ω±15Ω) |        |        |             |  |
|----------------------|-------------|-------------|------|-------------------------|--------------------------------|--------|--------|-------------|--|
|                      |             |             | L/R  | 0.3-100MHz              | 1- 30 MHz                      | 40 MHz | 50 MHz | 60 – 80 MHz |  |
| ARJ11E-M□ SA-A-B-ΔM2 | 1CT:1CT     | Yes         | G/Y  | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-M□ SB-A-B-ΔU2 | 1CT:1CT     | Yes         | G/Y  | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-M□ SC-A-B-ΔL2 | 1CT:1       | Yes         | G/Y  | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-M□ SD-A-B-ΔM2 | 1CT:1CT     | Yes         | G/Y  | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-MASA-M2       | 1CT:1CT     | Yes         | NA   | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-MASB-M2       | 1CT:1CT     | Yes         | NA   | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-MASC-L2       | 1CT:1       | Yes         | NA   | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |
| ARJ11E-MASD-M2       | 1CT:1CT     | Yes         | NA   | -1.2dB                  | -16                            | -13.5  | -11.5  | -10         |  |

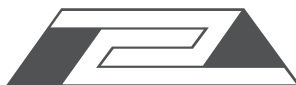
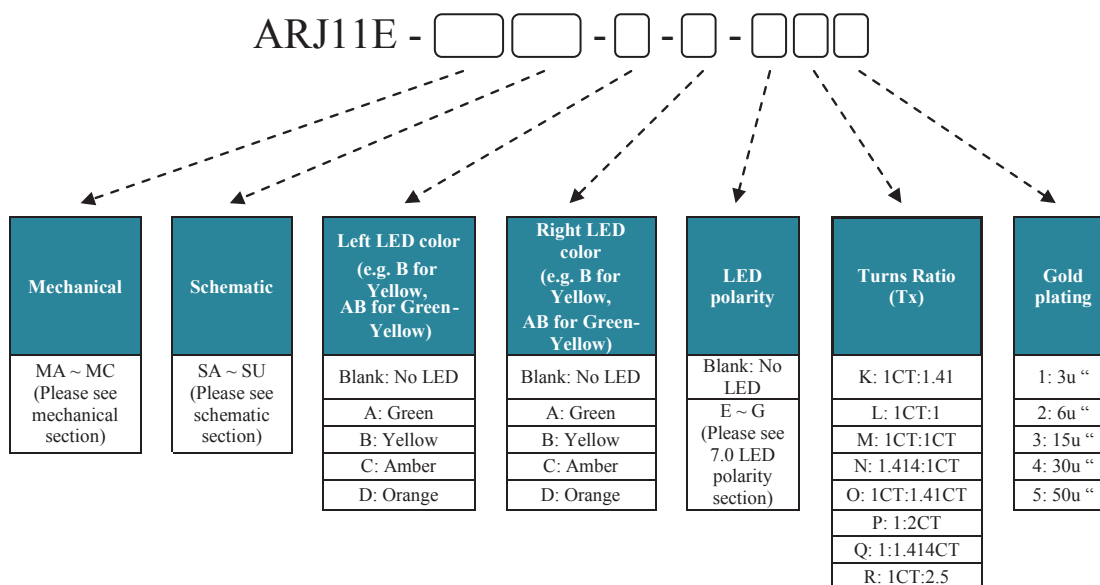
| Part Number          | Crosstalk (dB MIN) |        |         | Differential to Common Mode Rejection (dB MIN) |        |         | Hipot (Vrms) |
|----------------------|--------------------|--------|---------|------------------------------------------------|--------|---------|--------------|
|                      | 30 MHz             | 60 MHz | 100 MHz | 30 MHz                                         | 60 MHz | 100 MHz |              |
| ARJ11E-M□ SA-A-B-ΔM2 | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-M□ SB-A-B-ΔU2 | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-M□ SC-A-B-ΔL2 | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-M□ SD-A-B-ΔM2 | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-MASA-M2       | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-MASB-M2       | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-MASC-L2       | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |
| ARJ11E-MASD-M2       | -40                | -36    | -30     | -35                                            | -32    | -30     | 1500         |

□ : Mechanical Option: B or C

Δ : LED Polarity Option: E, F or G

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

## OPTIONS AND PART IDENTIFICATION



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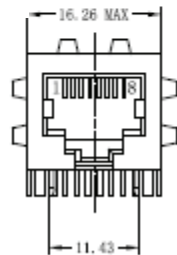
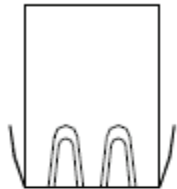
RoHS  
Compliant



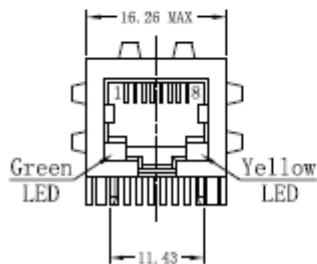
16.26 x 13.84 x 21.59mm

## MECHANICAL DIMENSIONS

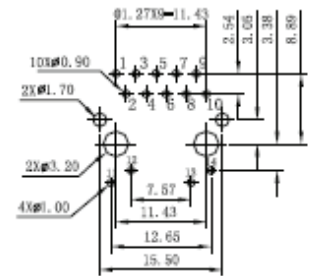
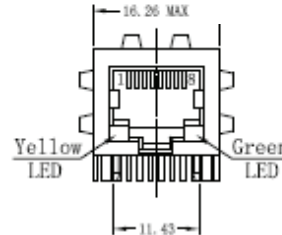
MA



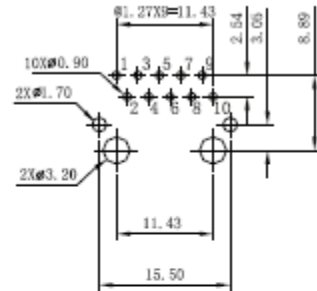
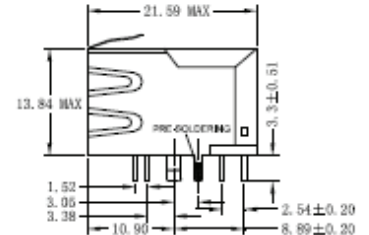
MC



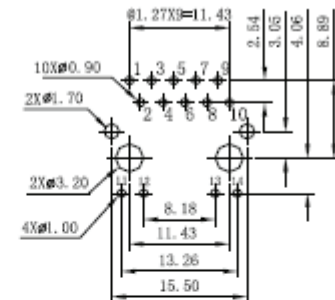
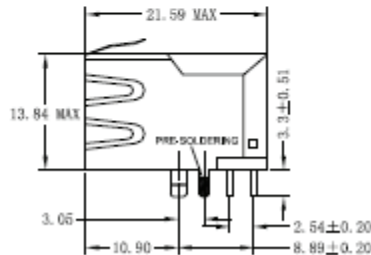
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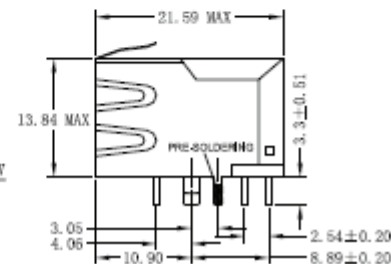
PC Board Layout  
Component Side Shown



PC Board Layout  
Component Side Shown



PC Board Layout  
Component Side Shown



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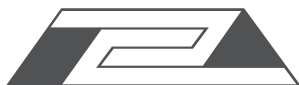
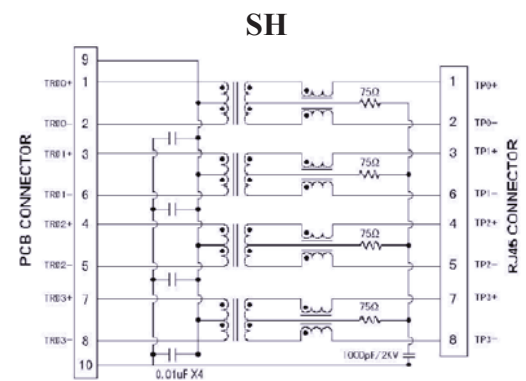
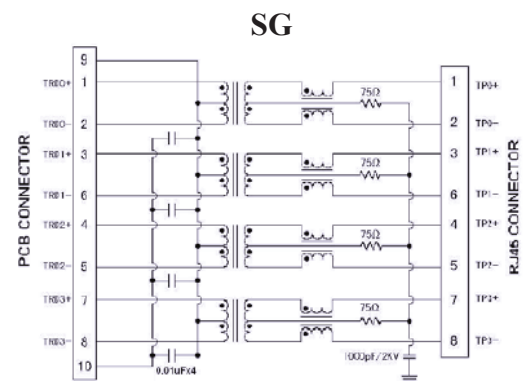
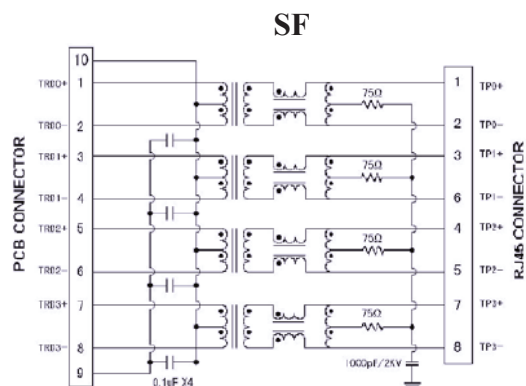
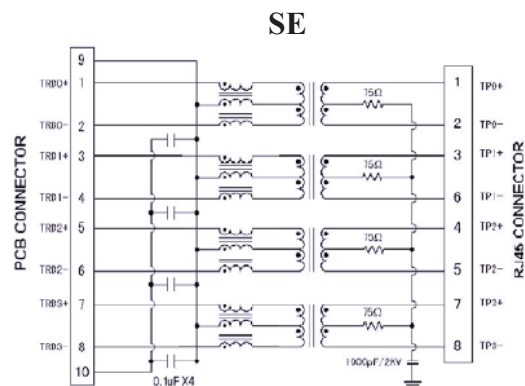
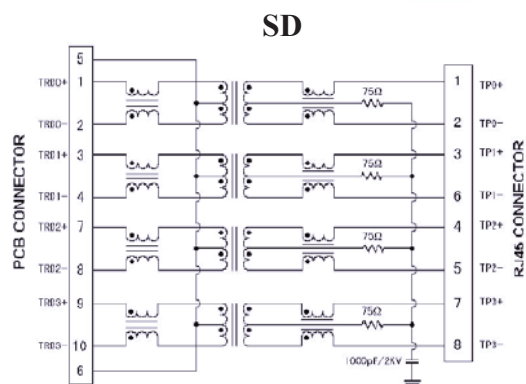
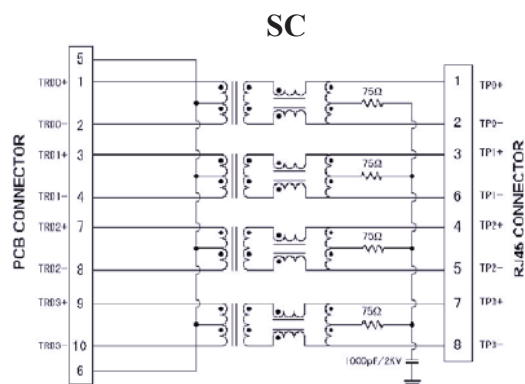
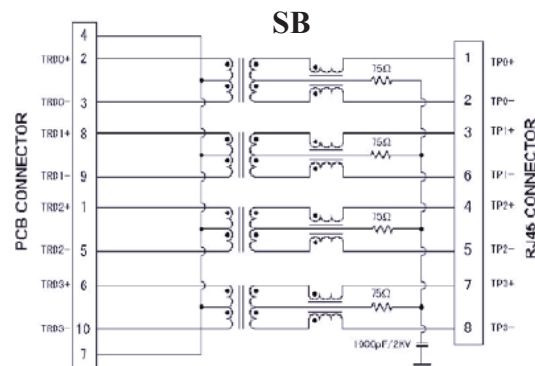
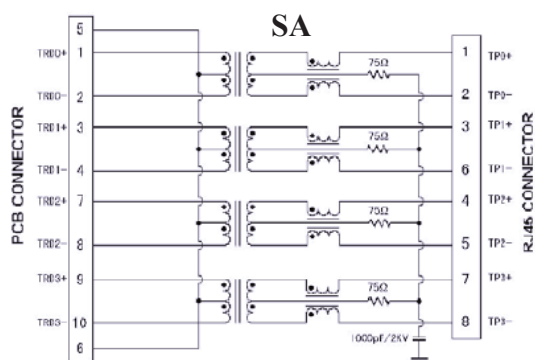
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## SCHEMATICS



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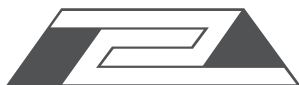
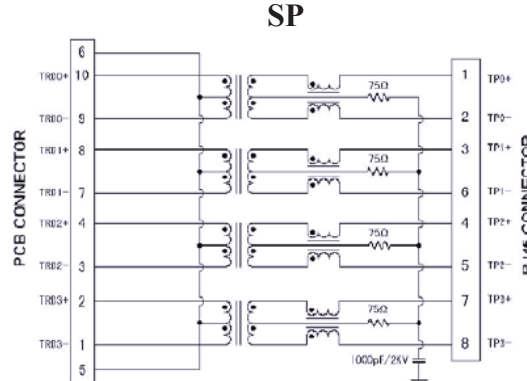
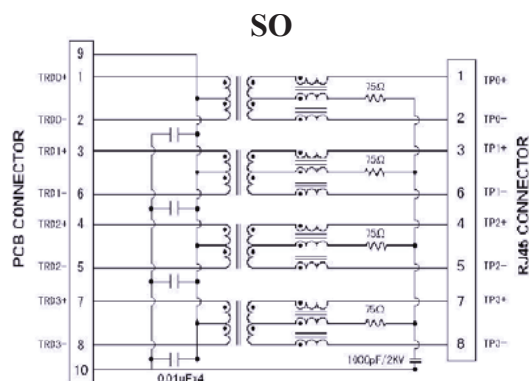
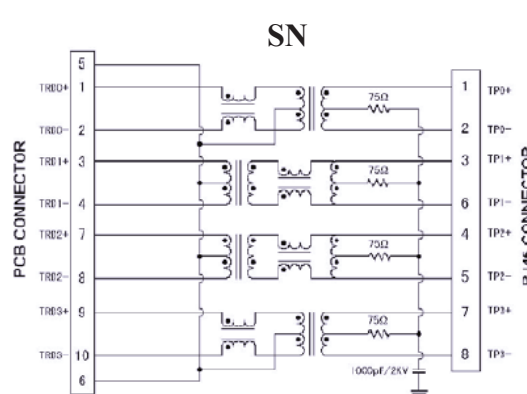
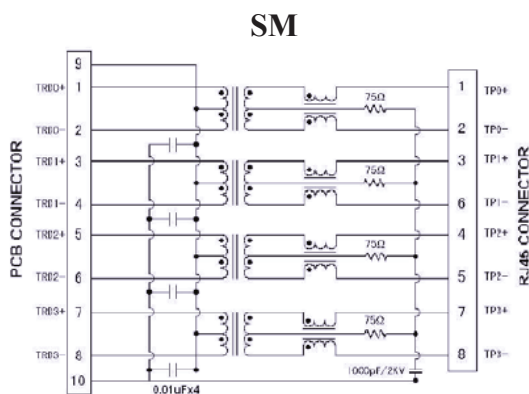
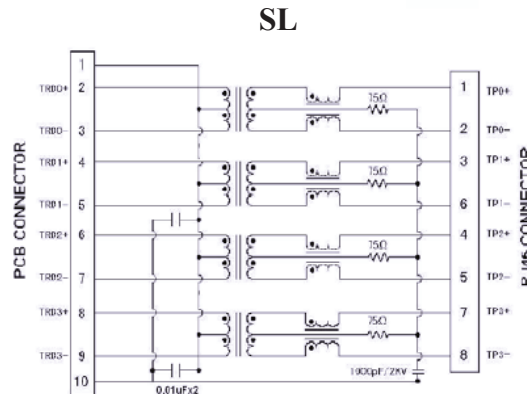
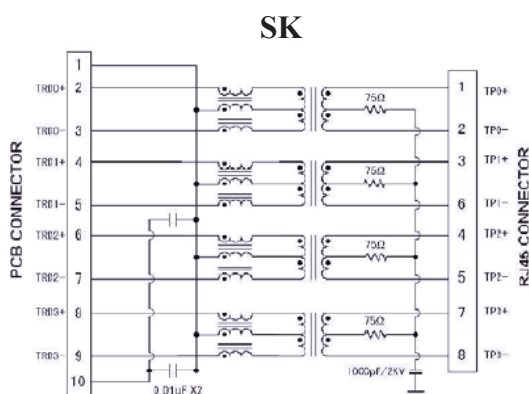
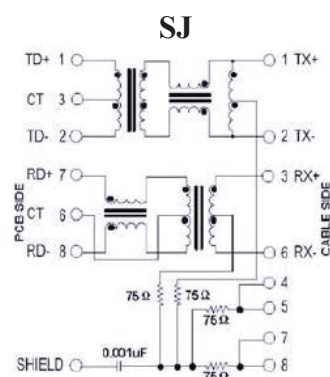
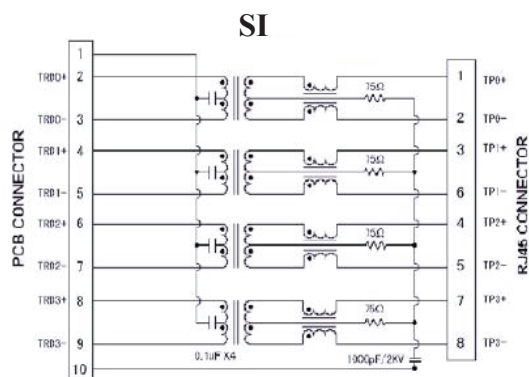
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## SCHEMATICS - continued



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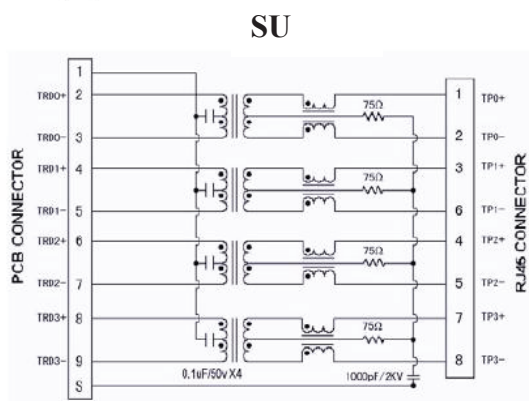
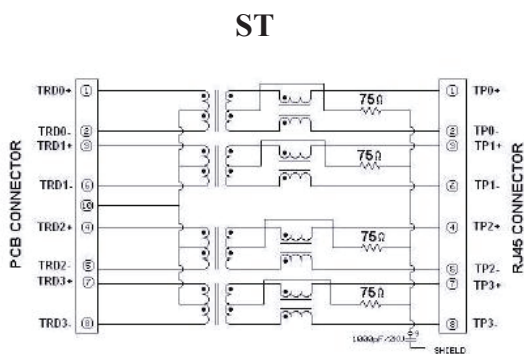
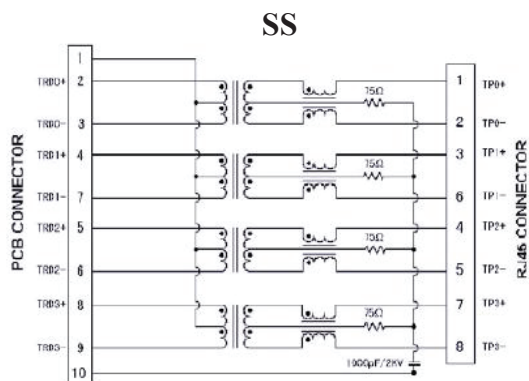
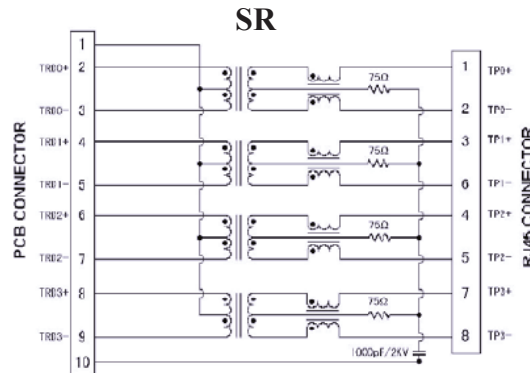
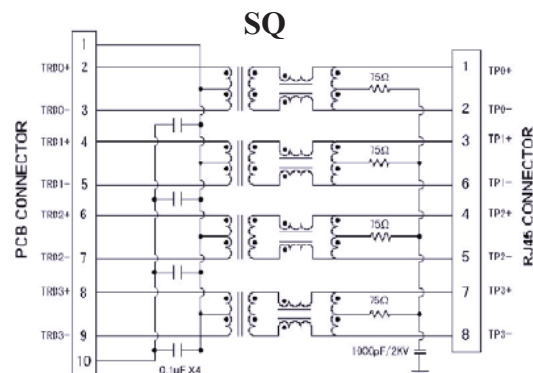
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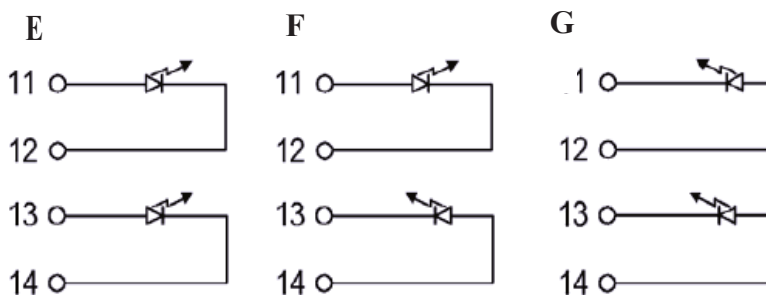
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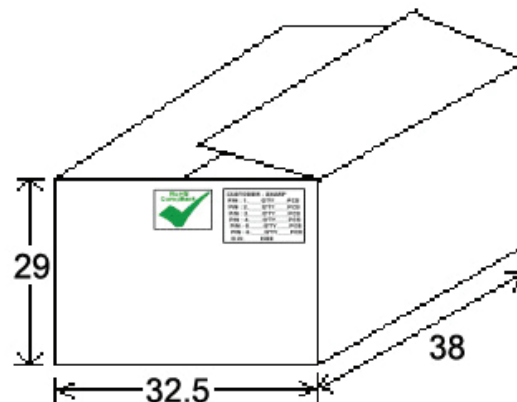
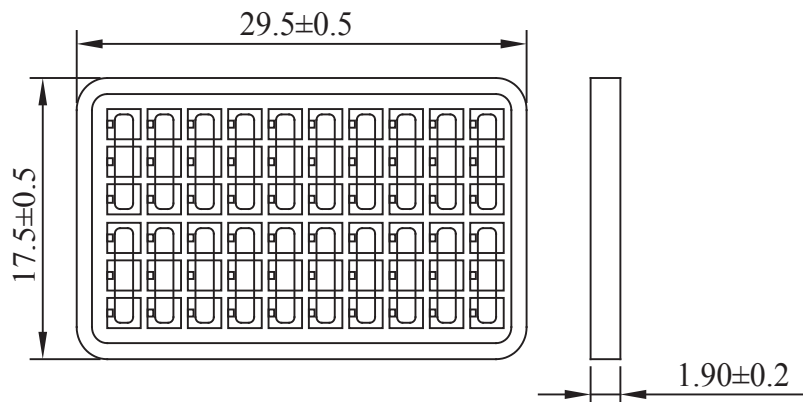
## LED POLARITY



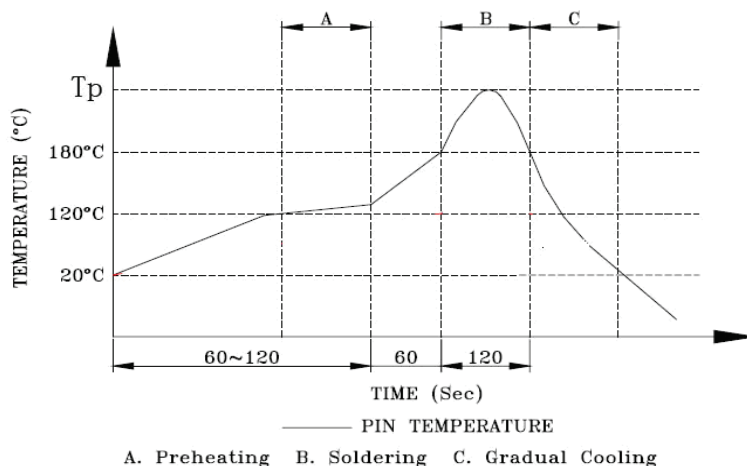
## PACKING: 60pcs/tray

Packaging material: PET

Outer carton unit 1320 pcs/ 22 Trays/box



## REFLOW PROFILE:



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

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Revised: 05.05.11

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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
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