

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

ARJ11B

**RoHS**  
Compliant



16.26 x 13.84 x 21.59mm

## FEATURES:

- Excellent EMI suppression
- Meet IEEE 802.3 standards and FCC mechanical requirements
- Low Cost, RoHS Compliant Reflow-able device

## APPLICATIONS:

- LAN-on-Motherboard (LOM)
- SOHO (ADSL modems), Hubs.
- Suitable for CAT 5 & 6 Fast Ethernet Cable or better UTP

## STANDARD SPECIFICATIONS:

**Operating Temperature:** - 0°C to + 85°C  
**Storage Temperature:** - 40°C to +85°C

| Part Number                          | Turns Ratio $\pm 5\%$ |            | EMI Fingers | LED (L/R) | Insertion Loss (dB max) |
|--------------------------------------|-----------------------|------------|-------------|-----------|-------------------------|
|                                      | TX                    | RX         |             |           | 0.3-100 MHz             |
| ARJ11B-MASAA-MU2 to ARJ11B-MASAI-MU2 | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MASAJ-MU2 to ARJ11B-MASAM-MU2 | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MASAN-LU2 to ARJ11B-MASBF-LU2 | 1CT:1                 | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MESCB-A-B-ELT2                | 1CT:1                 | 1CT:1      | NO          | G/Y       | -1                      |
| ARJ11B-MASCB-LT2                     | 1CT:1                 | 1CT:1      | YES         | ---       | -1                      |
| ARJ11B-MBSCB-A-B-ELT2                | 1CT:1                 | 1CT:1      | YES         | G/Y       | -1                      |
| ARJ11B-MDSBQ-MU2                     | 1CT:1CT               | 1CT:1CT    | NO          | ---       | -1                      |
| ARJ11B-MESBQ-A-B-EMU2                | 1CT:1CT               | 1CT:1CT    | NO          | G/Y       | -1                      |
| ARJ11B-MASBQ-MU2                     | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MBSBQ-A-B-EMU2                | 1CT:1CT               | 1CT:1CT    | YES         | G/Y       | -1                      |
| ARJ11B-MFSBQ-A-A-EMU2                | 1CT:1CT               | 1CT:1CT    | YES         | G/G       | -1                      |
| ARJ11B-MASAJ-MU2                     | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MASBR-QU2                     | 1CT:1.414CT           | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MFSBR-A-A-EQU2                | 1CT:1.414CT           | 1CT:1CT    | YES         | G/G       | -1                      |
| ARJ11B-MDSAO-LU2                     | 1CT:1                 | 1CT:1CT    | NO          | ---       | -1                      |
| ARJ11B-MESAO-A-B-ELU2                | 1CT:1                 | 1CT:1CT    | NO          | G/Y       | -1                      |
| ARJ11B-MESAO-A-A-ELU2                | 1CT:1                 | 1CT:1CT    | NO          | G/G       | -1                      |
| ARJ11B-MASAO-LU2                     | 1CT:1                 | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MBSAO-A-B-ELU2                | 1CT:1                 | 1CT:1CT    | YES         | G/Y       | -1                      |
| ARJ11B-MFSAO-A-A-ELU2                | 1CT:1                 | 1CT:1CT    | YES         | G/G       | -1                      |
| ARJ11B-MFSAO-BA-A-GLU2               | 1CT:1                 | 1CT:1CT    | YES         | YG/G      | -1                      |
| ARJ11B-MBSAP-A-B-ELU2                | 1CT:1                 | 1CT:1CT    | YES         | G/Y       | -1                      |
| ARJ11B-MASAC-MU2                     | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MASAD-OW2                     | 1CT:1.41CT            | 1CT:1.41CT | YES         | ---       | ---                     |
| ARJ11B-MBSAI-A-B-EMU2                | 1CT:1CT               | 1CT:1CT    | YES         | G/Y       | -1                      |
| ARJ11B-MASCC-MU2                     | 1CT:1CT               | 1CT:1CT    | YES         | ---       | -1                      |
| ARJ11B-MESBW-B-A-EMU2                | 1CT:1CT               | 1CT:1CT    | NO          | Y/G       | -1                      |



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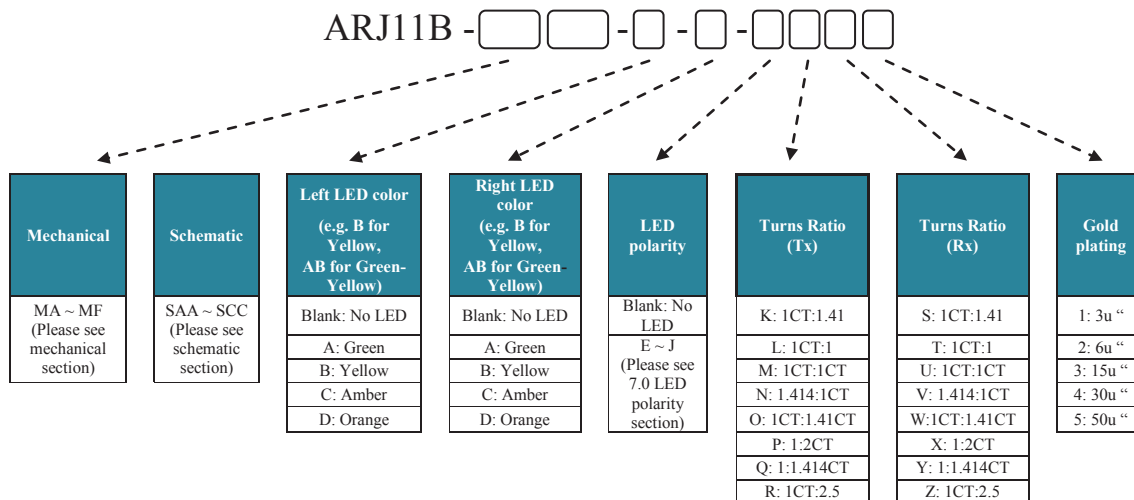
16.26 x 13.84 x 21.59mm

## STANDARD SPECIFICATIONS: 25°C (contd)

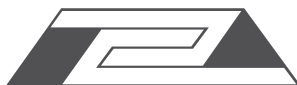
| Part Number                                | Return Loss (dB min @ 100Ω±15Ω) |        |        |           | Crosstalk (dB min) |        |         | Common Mode Rejection (dB min) |        |         | Hipot (Vrms) |
|--------------------------------------------|---------------------------------|--------|--------|-----------|--------------------|--------|---------|--------------------------------|--------|---------|--------------|
|                                            | 1- 30 MHz                       | 40 MHz | 50 MHz | 60-80 MHz | 30 MHz             | 60 MHz | 100 MHz | 30 MHz                         | 60 MHz | 100 MHz |              |
| ARJ11B-MASAA-MU2<br>to<br>ARJ11B-MASAI-MU2 | -18                             | -16    | -14    | -12       | -45                | -40    | -35     | -35                            | -30    | -25     | 1500         |
| ARJ11B-MASAJ-MU2<br>to<br>ARJ11B-MASAM-MU2 | -18                             | -16    | -14    | -12       | -45                | -40    | -35     | -35                            | -30    | -25     | 1500         |
| ARJ11B-MASAN-LU2<br>to<br>ARJ11B-MASBF-LU2 | -18                             | -16    | -14    | -12       | -45                | -40    | -35     | -35                            | -30    | -25     | 1500         |
| ARJ11B-MESCB-A-B-ELT2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASCB-LT2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MBSCB-A-B-ELT2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MDSBQ-MU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MESBQ-A-B-EMU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASBQ-MU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MBSBQ-A-B-EMU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MFSBQ-A-A-EMU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASAJ-MU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASBR-QU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MFSBR-A-A-EQU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MDSAO-LU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MESAO-A-B-ELU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MESAO-A-A-ELU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASAO-LU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MBSAO-A-B-ELU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MFSAO-A-A-ELU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MFSAO-BA-A-GLU2                     | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MBSAP-A-B-ELU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASAC-MU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASAD-OW2                           | --                              | --     | --     | --        | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MBSAI-A-B-EMU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MASCC-MU2                           | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |
| ARJ11B-MESBW-B-A-EMU2                      | -18                             | -16    | -12    | -10       | -40                | -35    | -30     | -30                            | -20    | -20     | 1500         |

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

## OPTIONS & PART IDENTIFICATION:



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Revised: 04.21.11

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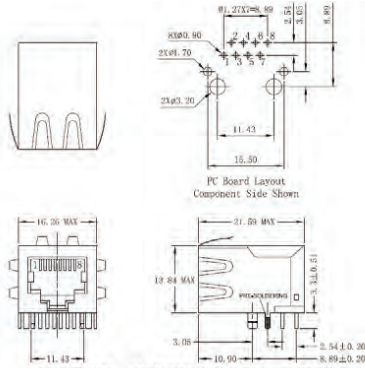
RoHS  
Compliant



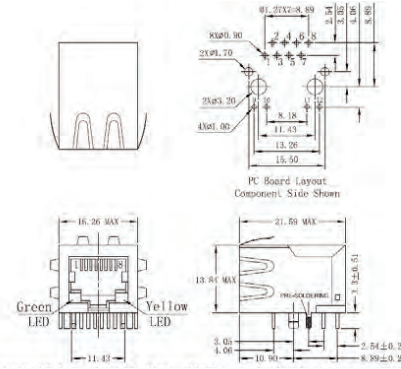
16.26 x 13.84 x 21.59mm

## OUTLINE DRAWING:

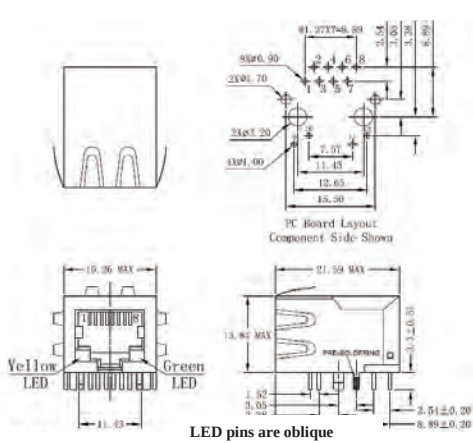
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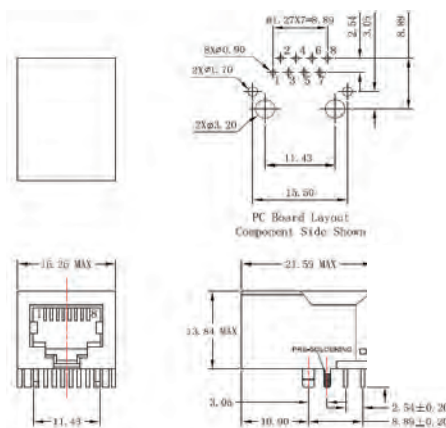
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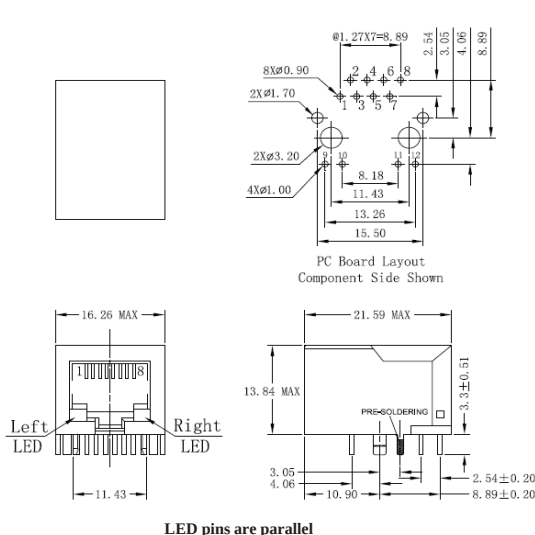
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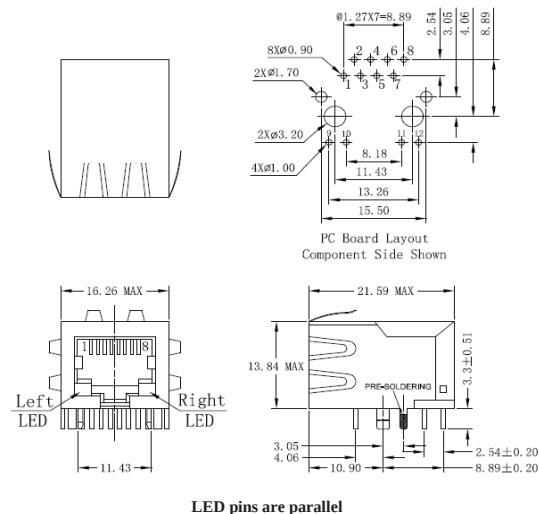
MD



ME



MF



Dimensions: mm (Unless otherwise specified, tolerances are  $\pm 0.25$ mm)

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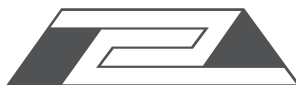
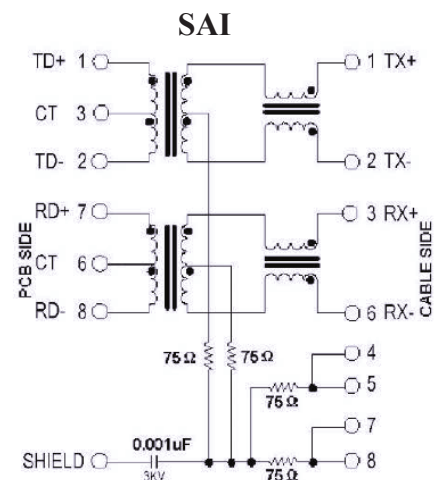
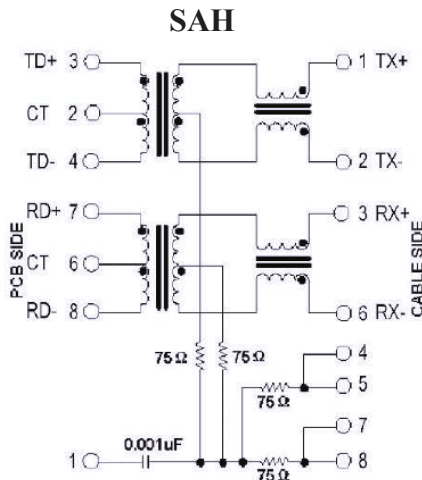
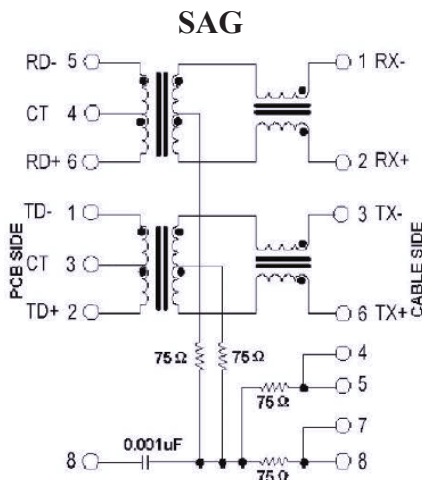
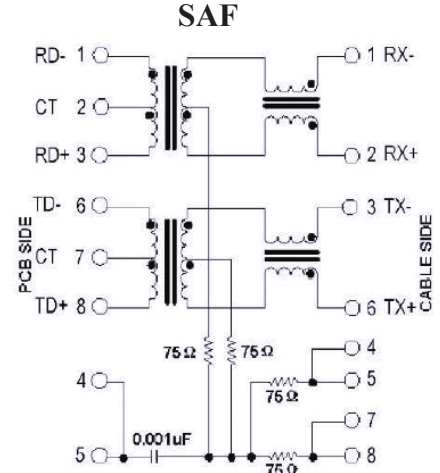
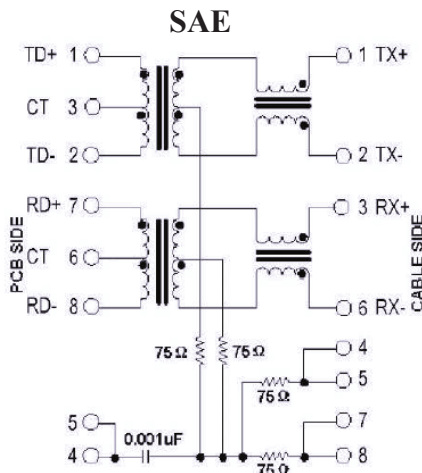
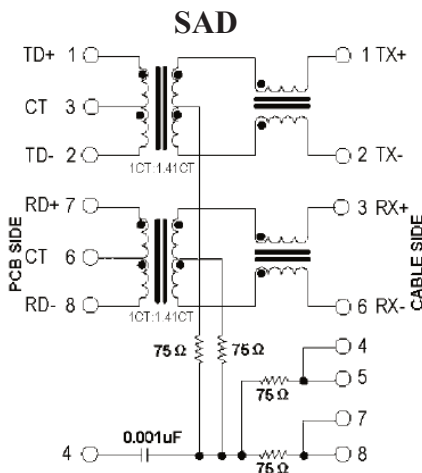
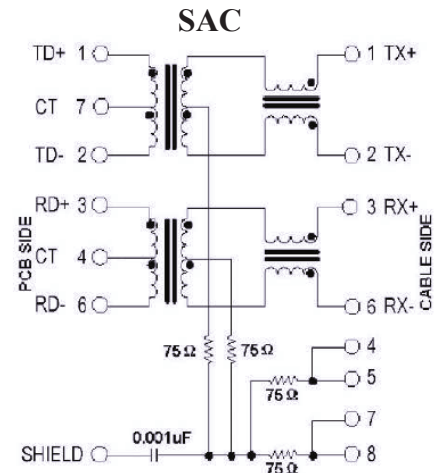
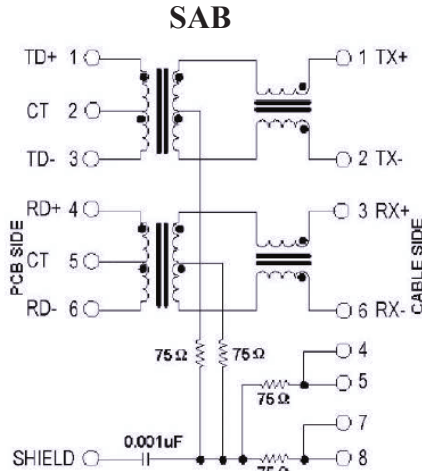
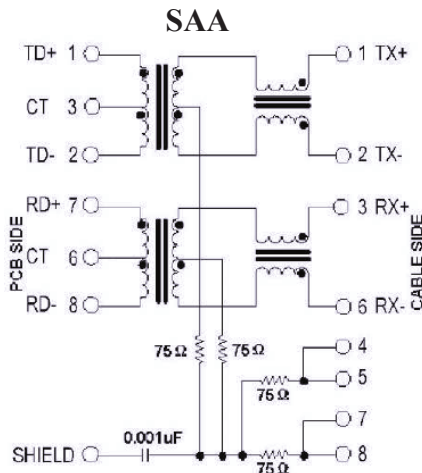
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16.26 x 13.84 x 21.59mm

## SCHEMATICS



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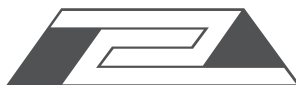
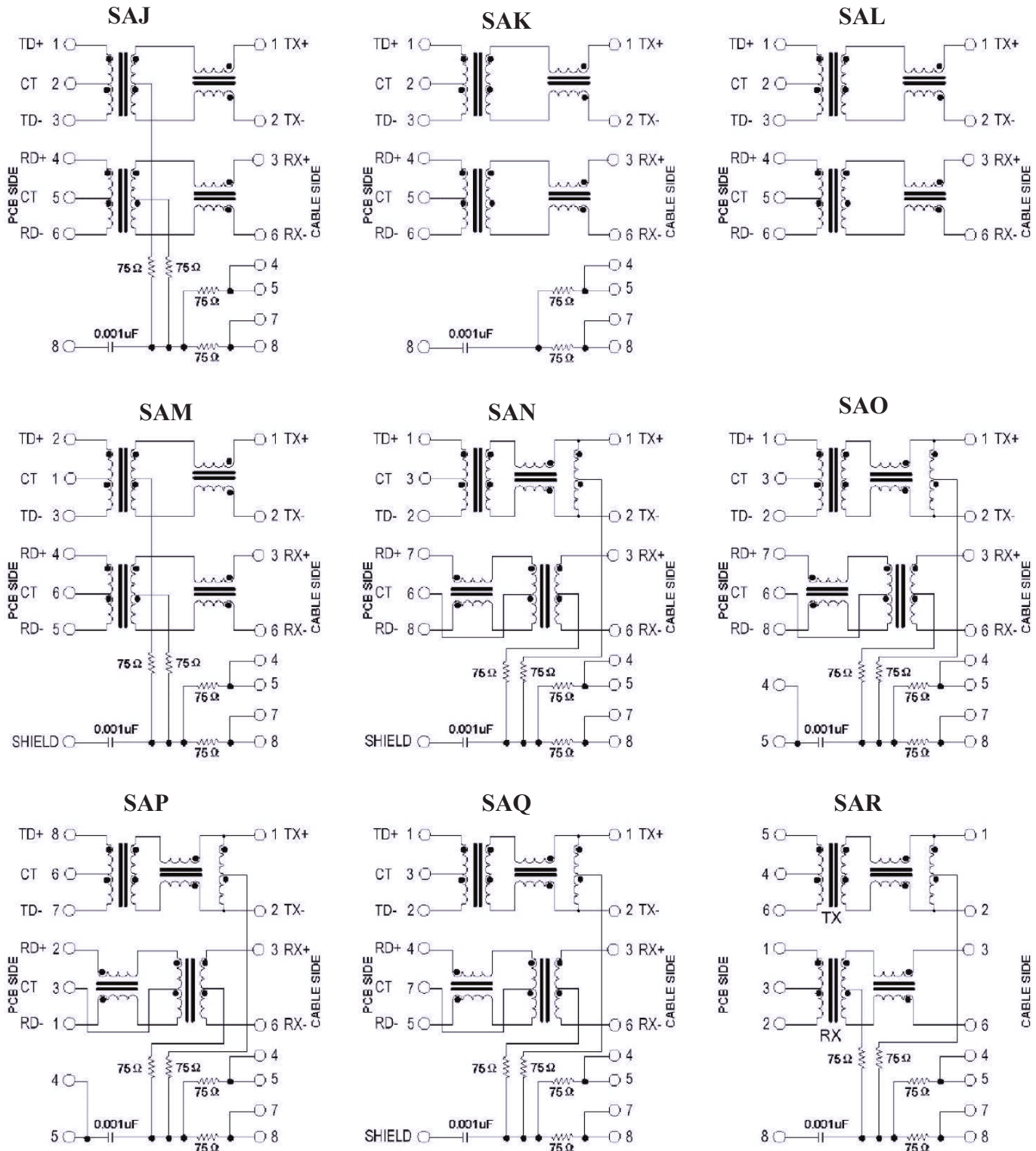
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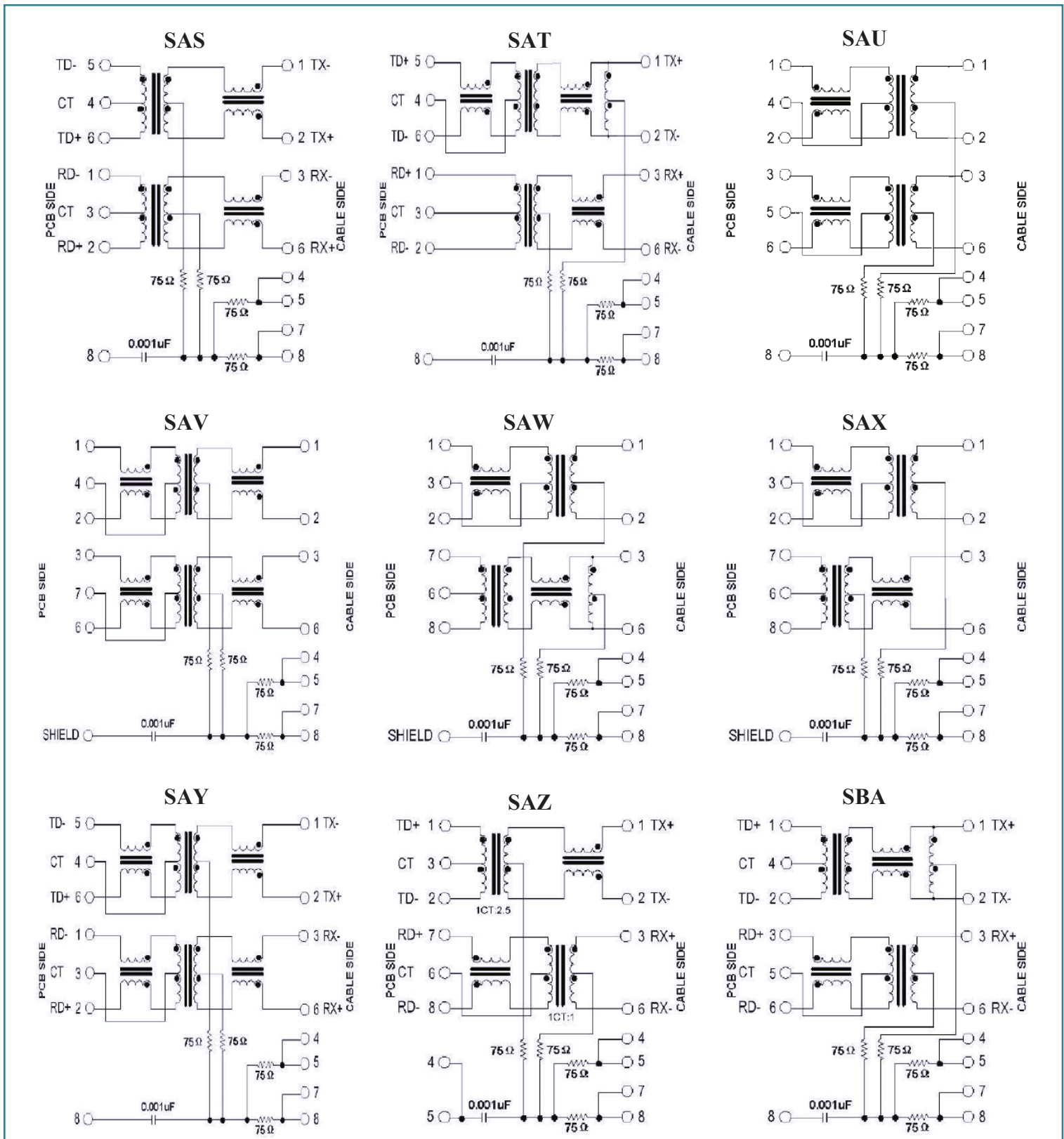
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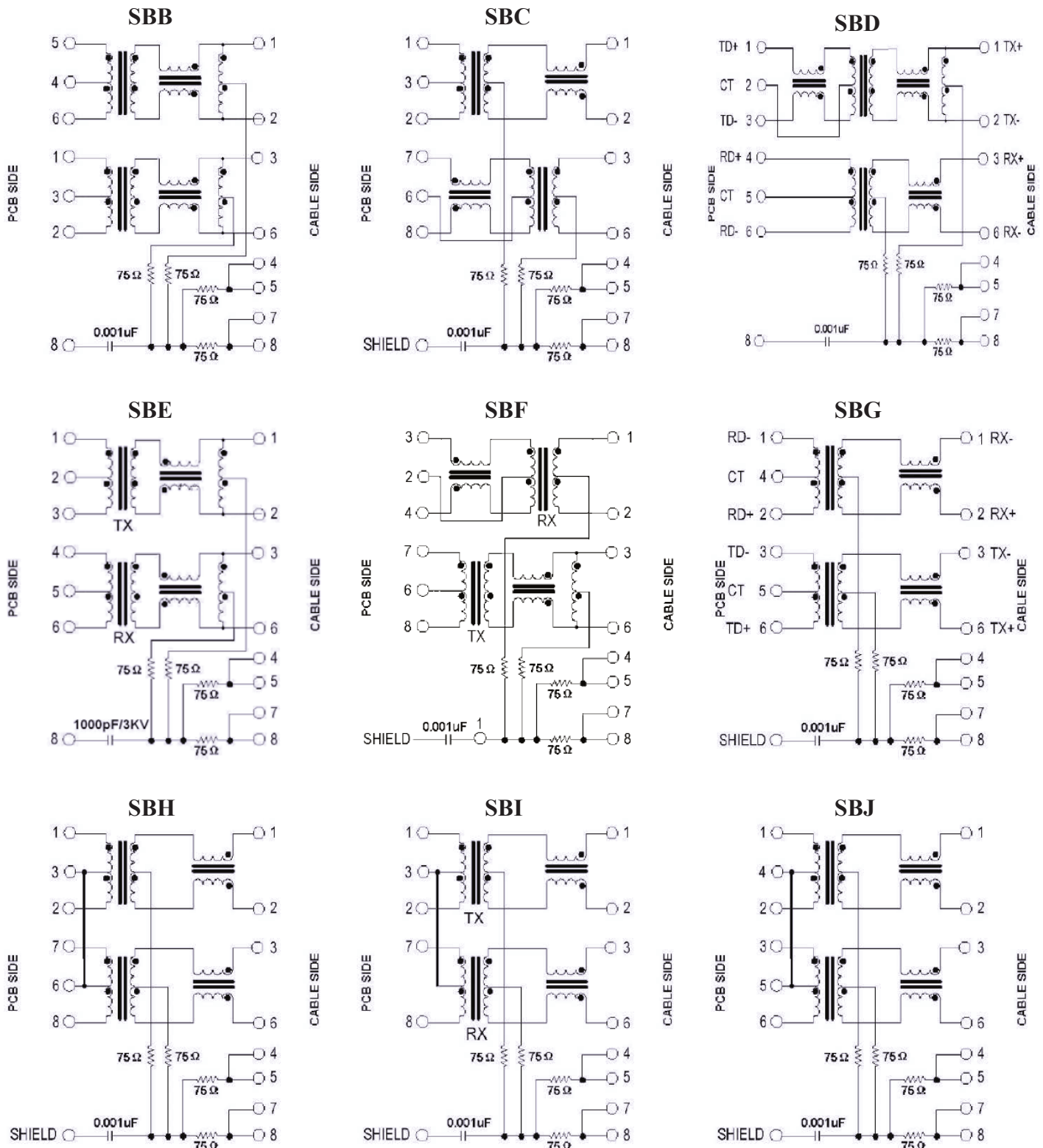
ARJ11B

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Compliant

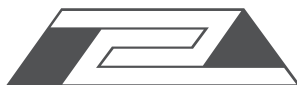


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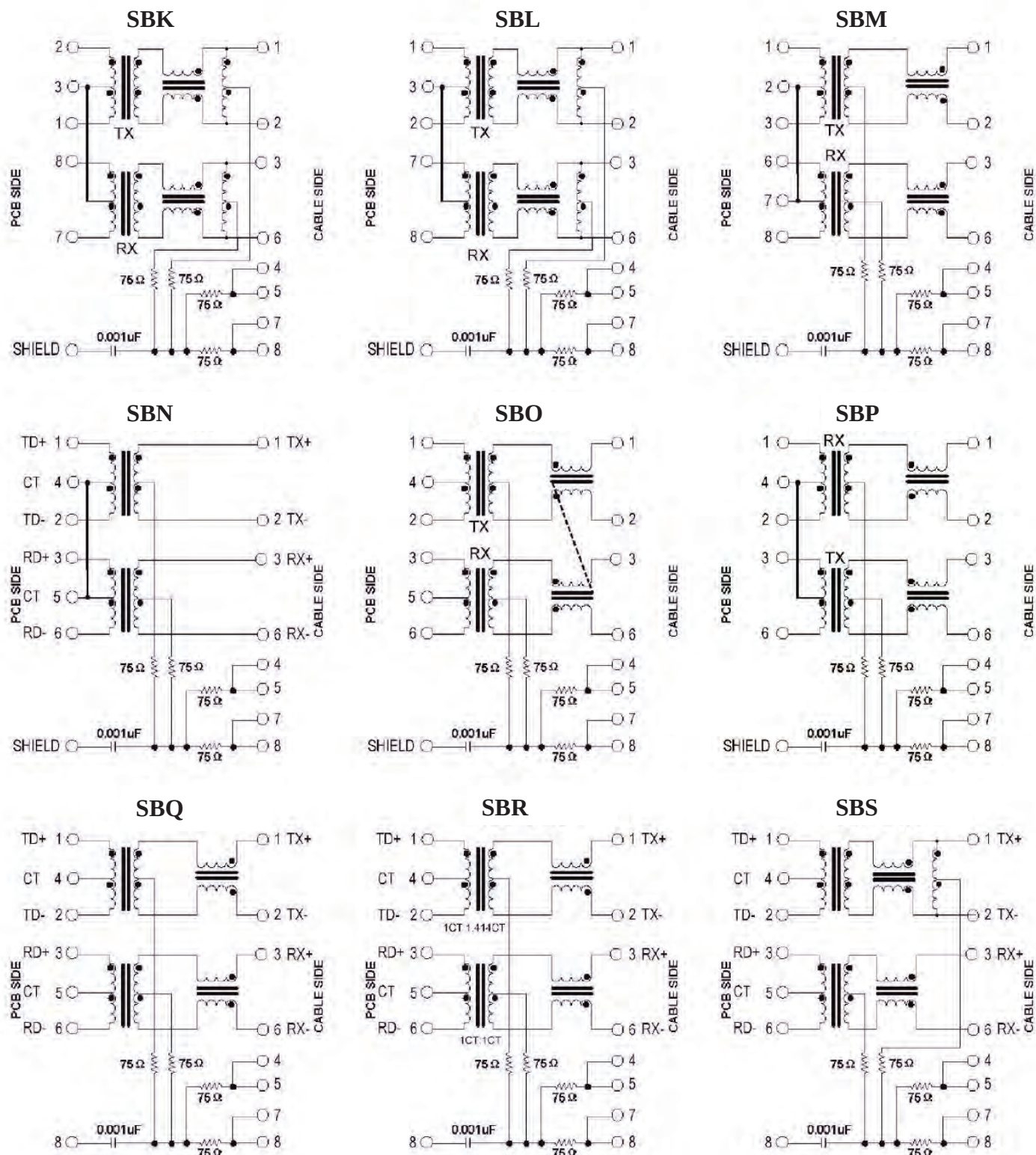
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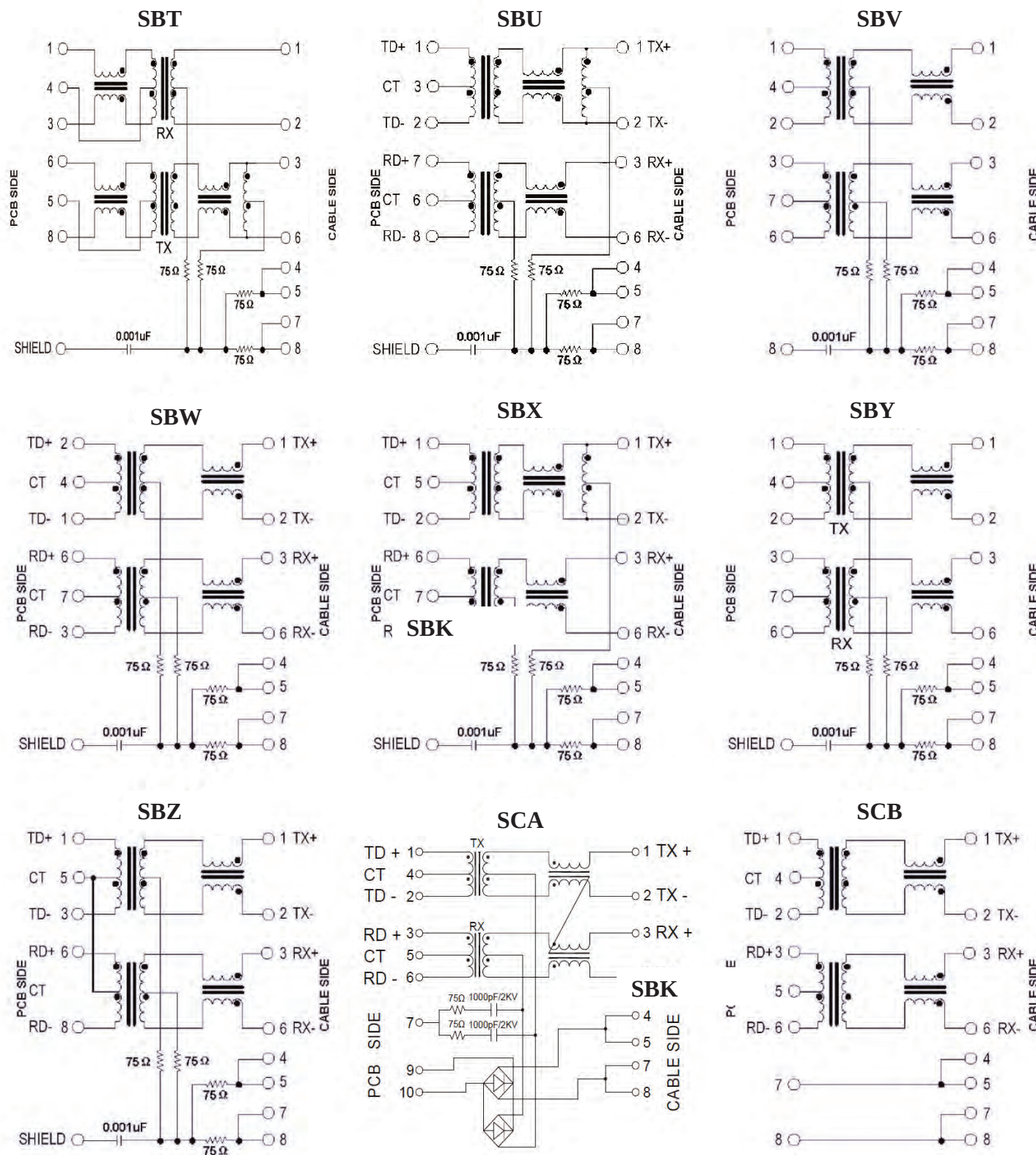
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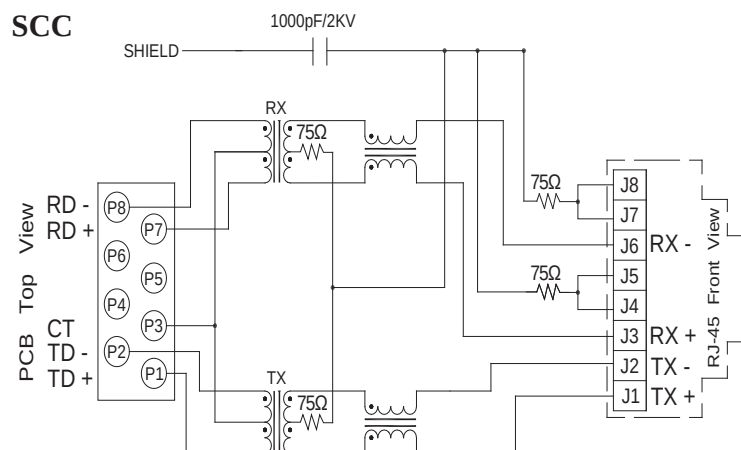
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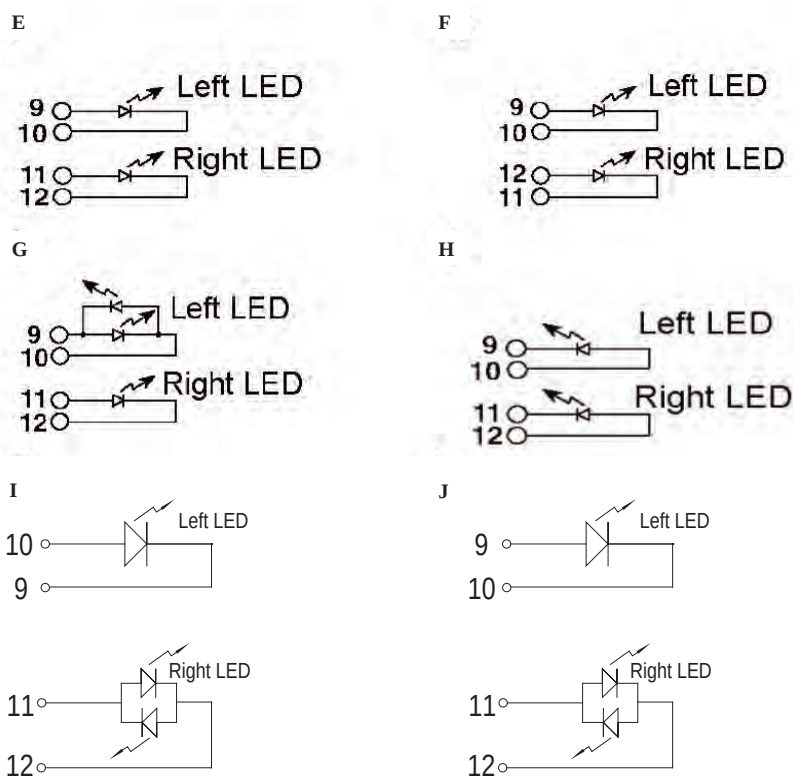


16.26 x 13.84 x 21.59mm

## SCHEMATICS



## LED POLARITY



Vin=2.1Vdc TYP. 2.5Vdc MAX.

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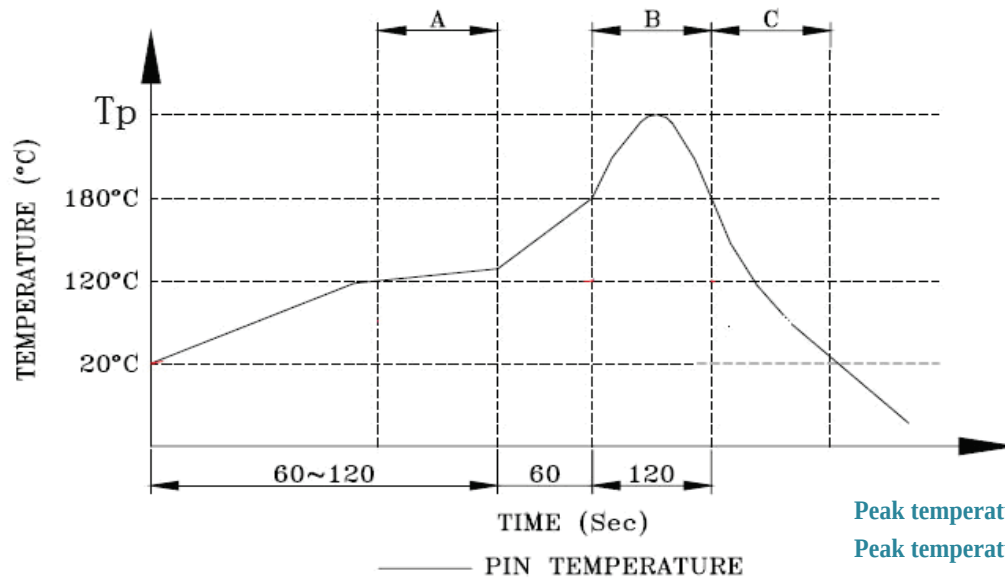
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## REFLOW PROFILE

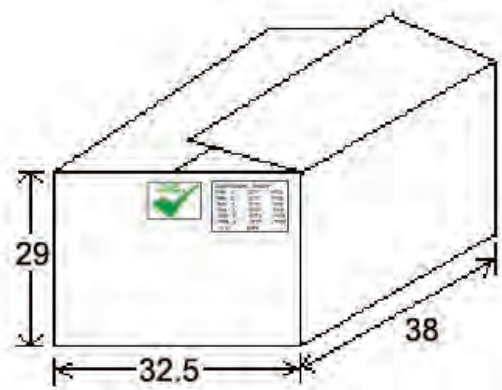
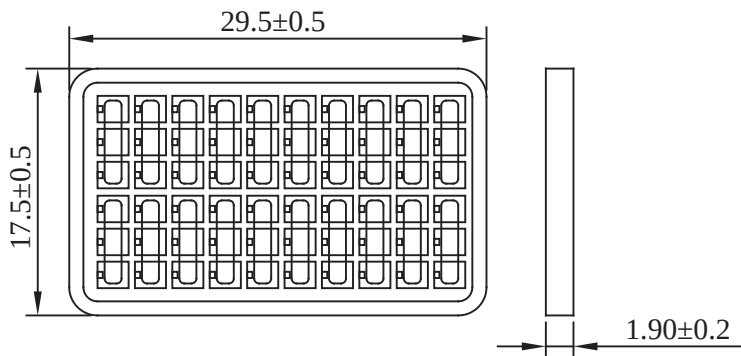


A. Preheating B. Soldering C. Gradual Cooling

## TAPE & REEL:

Packing 60pcs/tray  
Packaging material: PET

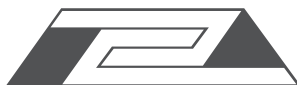
Outer carton unit 1320 pcs/ 22 Trays/box



Dimensions: cm

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Revised: 04.21.11

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



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