

RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS



ARJM11

21.30 x 15.90 x 13.60mm  
21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

SERIES DESCRIPTION

The ARJM11 series of RJ45 jacks with internal magnetics supports a wide range of configurations in 10/100Base-T, 1000Base-T, 2.5GBase-T and 5GBase-T applications. This series offers the ability to mix and match the physical orientation of the tab, pin layouts, EMI fingers, LED colors and also provides PoE and PoE+ options for 10/100Base-T rates. All configurations in the product series support paste in hole (PIH), a technology that allows through-hole components to be compatible with surface mount reflow assembly processes. All devices are rated to 0°C to 70°C or -40°C to 85°C operating temperature range.

FEATURES

- 10/100Base-T, 1000Base-T, 2.5GBase-T or 5GBase-T
- Supports PoE and PoE+ (10/100Base-T)
- Compatible with surface mount with Paste in hole (PIH) technology
- -40°C to 85°C or 0°C to 70°C operating temperature range
- Combinations of green, yellow, orange, and red LED

APPLICATIONS

- Internet of Things (Ethernet)
- IP cameras, surveillance, and phone
- Access points
- Industrial computers
- Network interface cards (NIC)
- Industrial process control
- Networking and communications
- Broadcast video
- Storage
- Set top box and video
- Power over Ethernet (PoE)
- Test and Measurement
- Multifunction Printers (MFP)

OPTIONS AND PART IDENTIFICATION

ARJM11 [ ] [ ] - [ ] - [ ] [ ] - [ ] [ ] [ ] [ ]

| Mechanical                   | Pin Layout     | Schematics                | Left LED color  | Right LED color | Operating Temperature | Soldering Method | Gold Plating | Packaging      |
|------------------------------|----------------|---------------------------|-----------------|-----------------|-----------------------|------------------|--------------|----------------|
| A: Tab down, w/ EMI Fingers  | 1: for A and B | 009: 100 Base-T           | N: No LED       | N: No LED       | C: 0 ~ 70 °C          | W: Wave**        | 2: 6u"       | Blank: Bulk    |
| B: Tab down, w/o EMI Fingers | 3: for A and B | 114: 100 Base-T POE*      | A: Green        | A: Green        | E: -40 ~ 85 °C        | R: Reflow        |              | T: Tape&Reel** |
| C: Tab up, w/ EMI Fingers*   | 7: for C and D | 104: 100 Base-T POE+*     | B: Yellow       | B: Yellow       |                       |                  |              |                |
| D: Tab up, w/o EMI Fingers*  |                | 502: 1000 Base-T          | K: Green/Orange | K: Green/Orange |                       |                  |              |                |
|                              |                | 805: 2.5G Base-T Option 1 |                 |                 |                       |                  |              |                |
|                              |                | 809: 2.5G Base-T Option 2 |                 |                 |                       |                  |              |                |
|                              |                | 811: 5G Base-T            |                 |                 |                       |                  |              |                |

(Please See Mechanical Dimension Section for Details)

(Please See Schematics Section for Details)

Example Configurations

|                                                                                                  |
|--------------------------------------------------------------------------------------------------|
| <b>ARJM11 A1-009 -AB- C W 2</b>                                                                  |
| (Tab down, w/ EMI, 100Base-T, w/LED G/Y, commercial grade, 6u" Gold, Tray Packaging)             |
| <b>ARJM11 D7-502 -NN- E R 2 - T</b>                                                              |
| (Tab up, w/o EMI, 1000Base-T, no LED, industrial grade, reflow soldering, 6u" Gold, Tape & Reel) |

\*114 and 104 schematics are only available with tab up RJ45 options C and D  
\*\*Wave solderable product is only available in bulk/tray packaging

Please see the tables at the end of the document for the 216 standard part numbers. For each standard part number, MOQ is as low as 700pcs. For additional configuration, NRE or larger MOQs may apply.



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STANDARD SPECIFICATIONS

| Parameters               | Minimum | Typical | Maximum          | Units | Notes                               |
|--------------------------|---------|---------|------------------|-------|-------------------------------------|
| Turn Ratio (±3%)         | 1CT:1CT |         |                  |       | 100kHz, 0.1V                        |
| Inductance               | 350     |         |                  | μH    | 100kHz, 0.1V, 8mADC                 |
|                          | 200     |         |                  |       | For 2.5G Base-T only                |
|                          | 160     |         |                  |       | For 5G Base-T only                  |
| Leakage Inductance       |         |         | 0.5              | μH    | 100kHz, 0.1V                        |
|                          |         |         | 0.3              |       | For 2.5G Base-T and 5G Base-T       |
| DC Resistance            |         |         | 1.5              | Ω     |                                     |
| Hipot                    | 2250    |         |                  | VDC   | 1mA Max<br>Complies with IEEE 802.3 |
| Operating Temperature    | -40     |         | +85              | °C    | See options                         |
| Storage Temperature      | -40     |         | +85              | °C    |                                     |
| 100 Base-T               |         |         |                  |       |                                     |
| Insertion Loss           | -1.1    |         |                  | dB    | 0.5-100MHz                          |
| Return Loss              |         |         | -18              | dB    | 0.5-30MHz                           |
|                          |         |         | -18+20log(f/30)* |       | 30.1-60MHz                          |
|                          |         |         | -12              |       | 60.1-80MHz                          |
| Crosstalk                |         |         | -35              | dB    | 0.5-40MHz                           |
|                          |         |         | -33+20log(f/50)* |       | 40.1-100MHz                         |
| CMRR                     |         |         | -30              | dB    | 0.5-100MHz                          |
| 1000 Base-T              |         |         |                  |       |                                     |
| Insertion Loss           | -1.1    |         |                  | dB    | 0.5-100MHz                          |
| Return Loss              |         |         | -18              | dB    | 0.5-40MHz                           |
|                          |         |         | -12+20log(f/80)* |       | 40.1-100MHz                         |
| Crosstalk                |         |         | -35              | dB    | 0.5-40MHz                           |
|                          |         |         | -33+20log(f/50)* |       | 40.1-100MHz                         |
| CMRR                     |         |         | -30              | dB    | 0.5-100MHz                          |
| 2.5G Base-T              |         |         |                  |       |                                     |
| Insertion Loss           | -0.5    |         |                  | dB    | 1-50MHz                             |
|                          | -1.0    |         |                  |       | 50-125MHz                           |
| Return Loss              |         |         | -20              | dB    | 1-40MHz                             |
|                          |         |         | -20+15log(f/40)* |       | 40-200MHz                           |
| Crosstalk                |         |         | -30              | dB    | 25-125MHz                           |
| 5G Base-T                |         |         |                  |       |                                     |
| Insertion Loss           | -0.5    |         |                  | dB    | 1-50MHz                             |
|                          | -1.0    |         |                  |       | 50-125MHz                           |
|                          | -2.0    |         |                  |       | 125-250MHz                          |
| Return Loss              |         |         | -20              | dB    | 1-40MHz                             |
|                          |         |         | -20+15log(f/40)* |       | 40-250MHz                           |
| Crosstalk                |         |         | -30              | dB    | 1-125MHz                            |
|                          |         |         | -25              |       | 125-250MHz                          |
| POE                      |         |         |                  |       |                                     |
| Balanced DC line current |         |         | 350              | mA    | @57VDC continuous                   |
|                          |         |         | 500              |       | @57VDC for 200ms                    |
| POE+                     |         |         |                  |       |                                     |
| Balanced DC line current |         |         | 600              | mA    | @57VDC continuous                   |
|                          |         |         | 720              |       | @57VDC for 200ms                    |



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UL Certification Number: E503350

RoHS/RoHS II Compliant

MSL = 1

## MATERIALS

---

### 1. Housing:

Material:

PBT, UL94V-0 (for wave soldering option)

LCP, UL94V-0 (for IR reflow soldering option)

Standard Color: Black

### 2. Insert:

Material:

PBT, UL94V-0 (for wave soldering option)

LCP, UL94V-0 (for IR Reflow soldering option)

Contact Material: Phosphor Bronze

Plating (1): Nickel

Plating (2): Gold, 6u"

### 3. Metal Shell:

Material: Brass

Plating (1): Nickel

### 4. Contact Pin:

Material: Phosphor Bronze

Plating (1): Nickel

Plating (2): 100%Sn

### 5. LED:

Material: Diffused Epoxy Lens, 0.5x0.5mm Carbon Steel wireframe leads

**Note: Abracon LLC will not alter any material composition, without prior written notification.**



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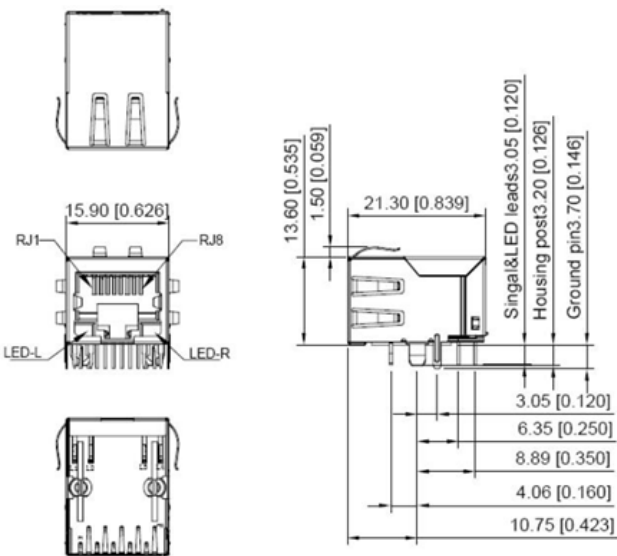
ARJM11

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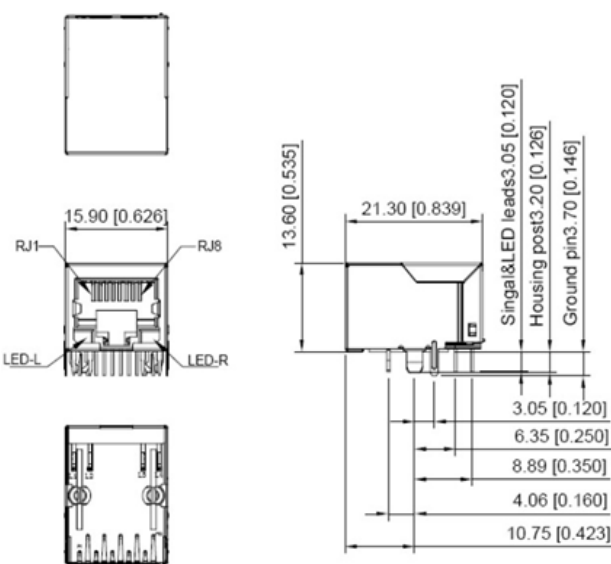
UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

## MECHANICAL DRAWINGS

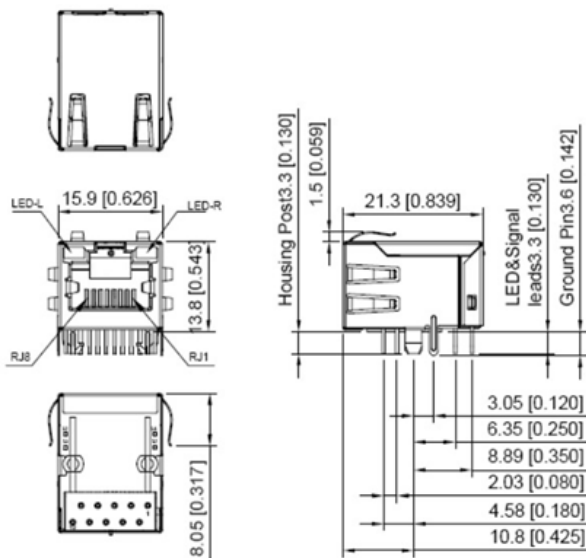
**A: Tab down, w/ EMI Fingers**



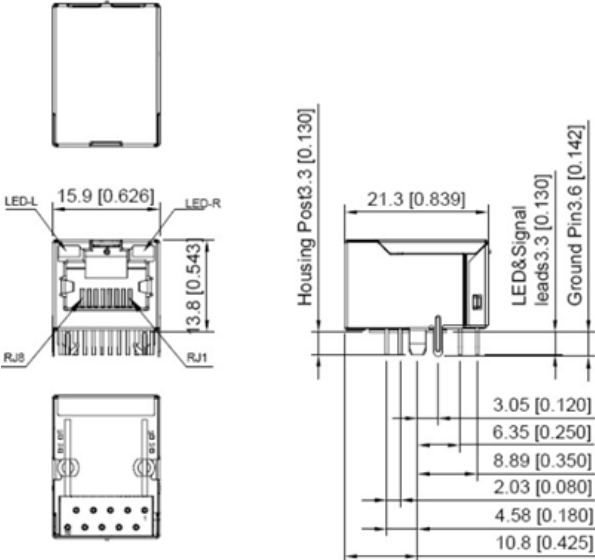
**B: Tab down, w/o EMI Fingers**



**C: Tab up, w/ EMI Fingers**



**D: Tab up, w/o EMI Fingers**



Dimensions: mm[inch] (Unless otherwise specified, all tolerances are  $\pm 0.25[0.010]$ )



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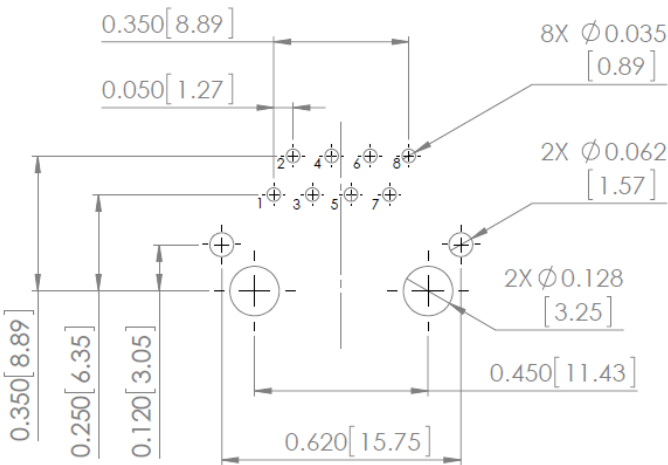
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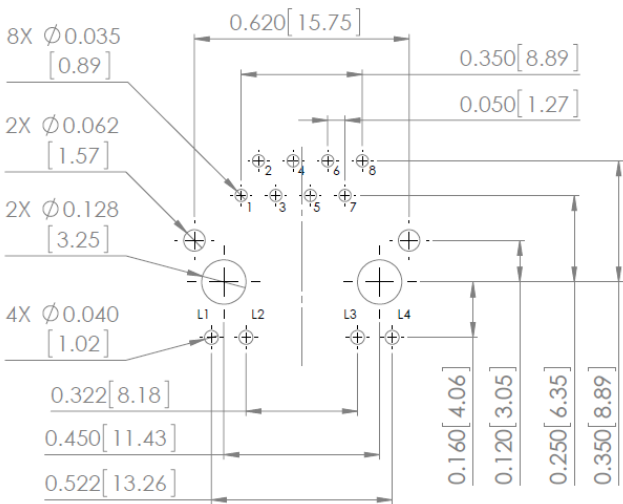
## RECOMMENDED LANDING PATTERNS

**Pin Layout = 1 (Horizontal LEDs/ No LEDs \*\*only available for mechanical options A & B)**

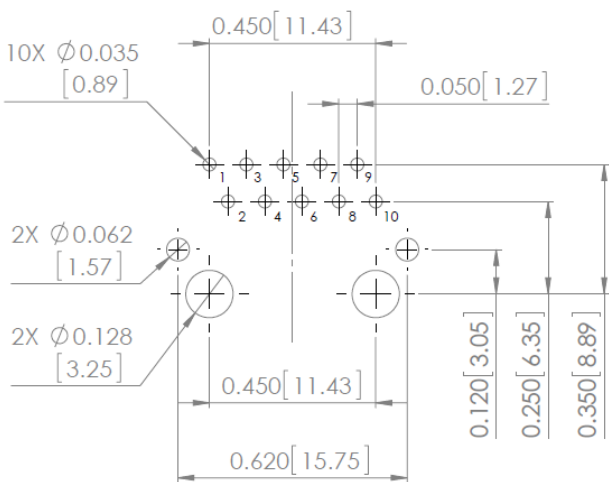
8 pins, no LED  
For 100 Base-T



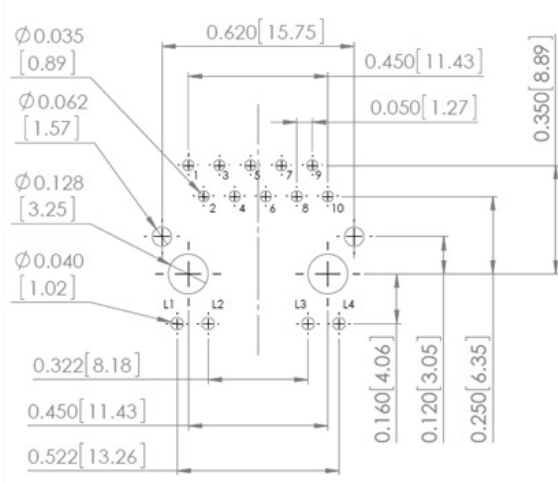
8 pins, with LED  
For 100 Base-T



10 pins, no LED  
For 100&PoE/1000/2.5G/5G Base-T



10 Pins, w/ LED  
For 100&PoE/1000/2.5G/5G Base-T



Dimensions: mm[inch]



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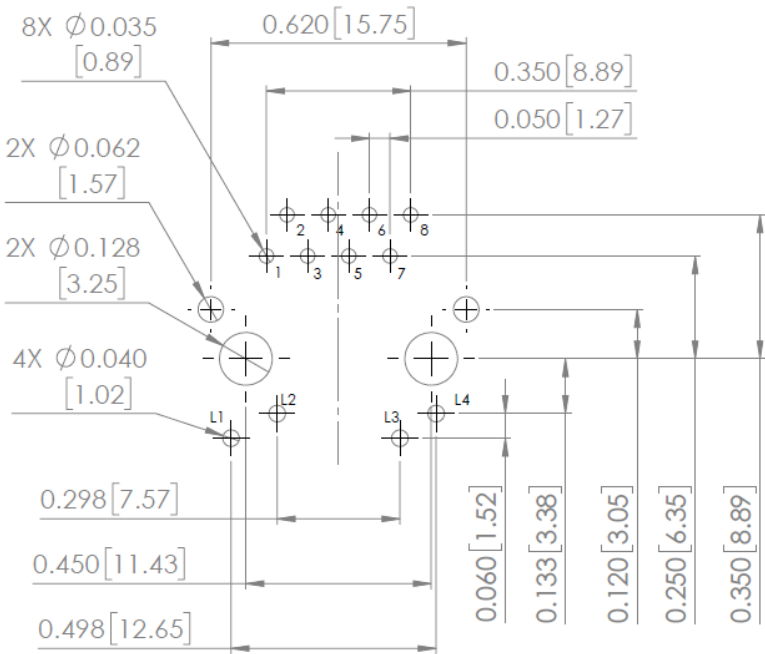
21.30 x 15.90 x 13.60mm  
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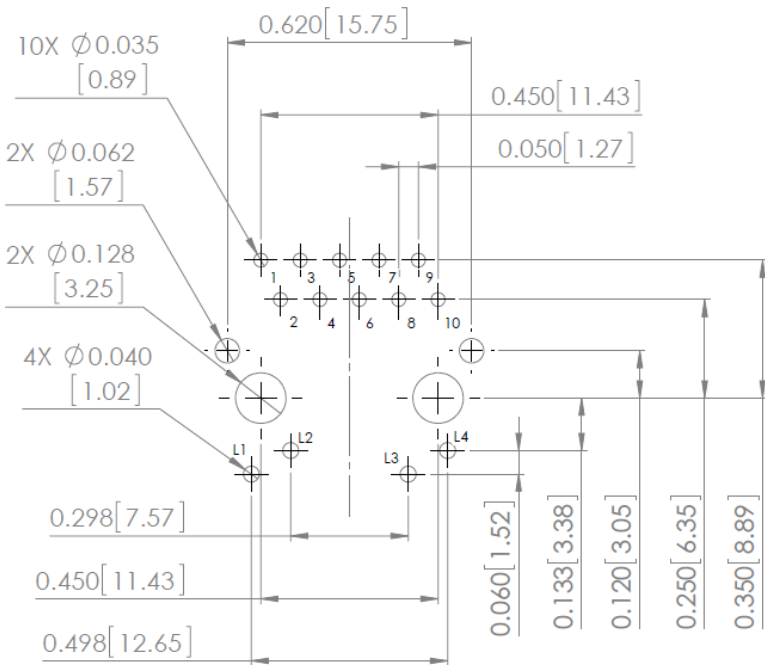
## RECOMMENDED LANDING PATTERNS

**Pin Layout = 3 (Diagonal LEDs \*\*only available for mechanical drawing A & B)**

8 pins, w/ LED  
For 100 Base-T



10 pins, w/ LED  
For 100&PoE/1000/2.5G/5G Base-T



Dimensions: mm[inch]



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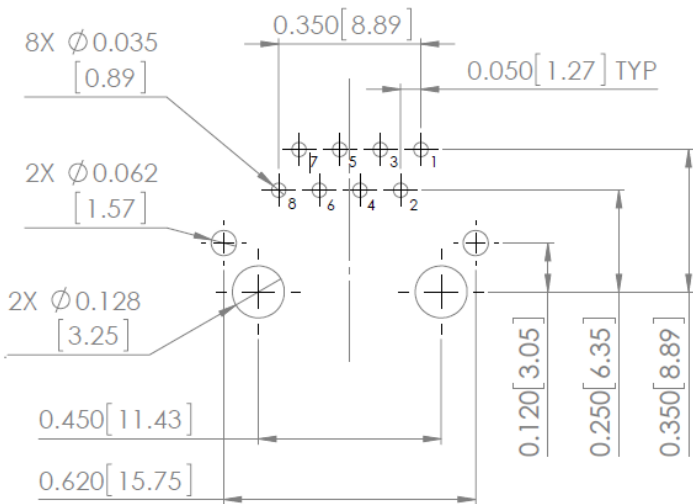
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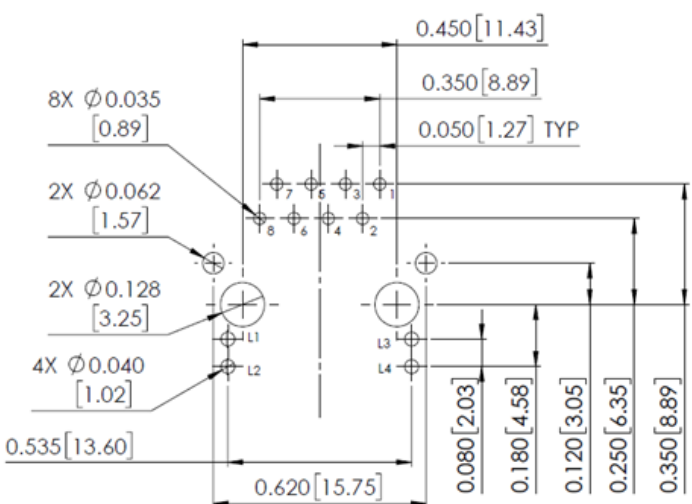
## RECOMMENDED LANDING PATTERNS

**Pin Layout = 7 (Vertical LEDs/ No LEDs \*\*only available for mechanical options C & D)**

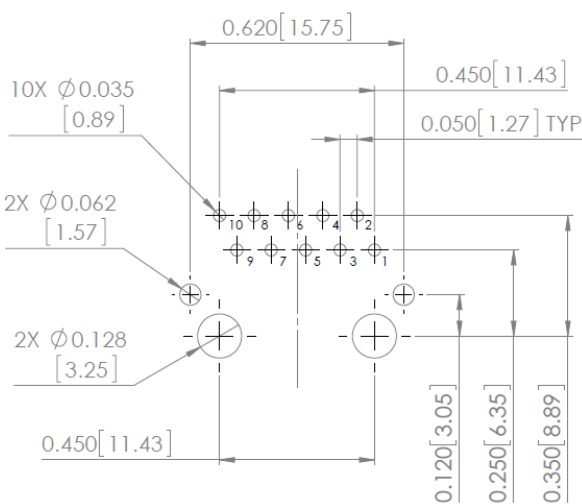
8 pins, no LED  
For 100 Base-T



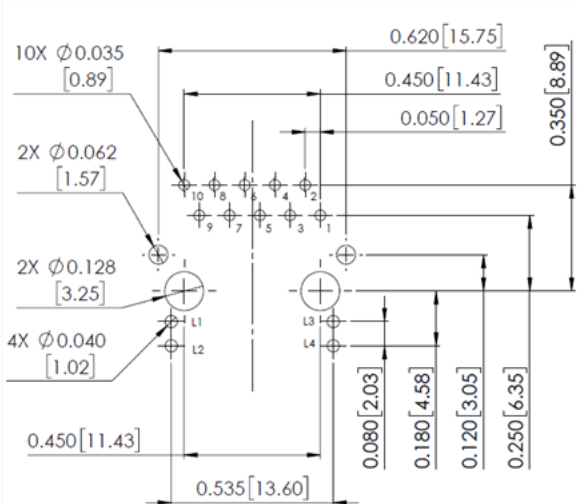
8 pins, with LED  
For 100 Base-T



10 pins, no LED  
For 100&PoE/1000/2.5G/5G Base-T



10 Pins, with LED  
For 100&PoE/1000/2.5G/5G Base-T



Dimensions: mm[inch]



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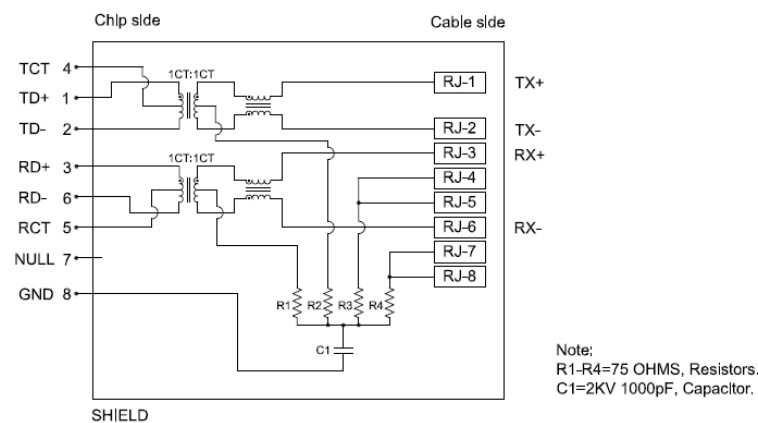
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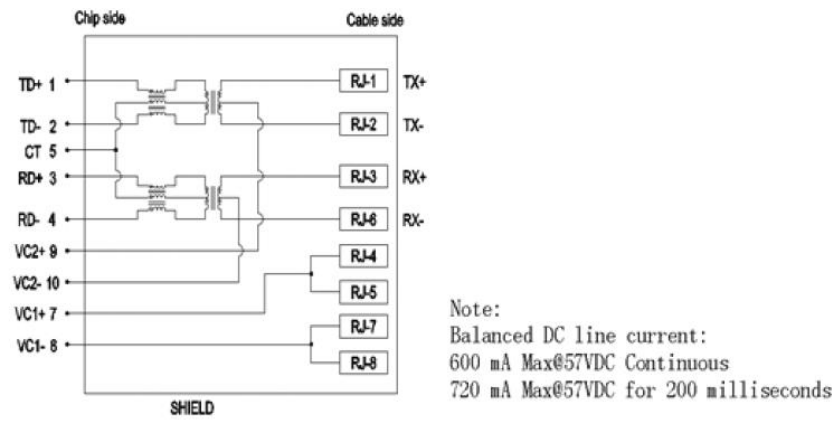
UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

## SCHEMATICS

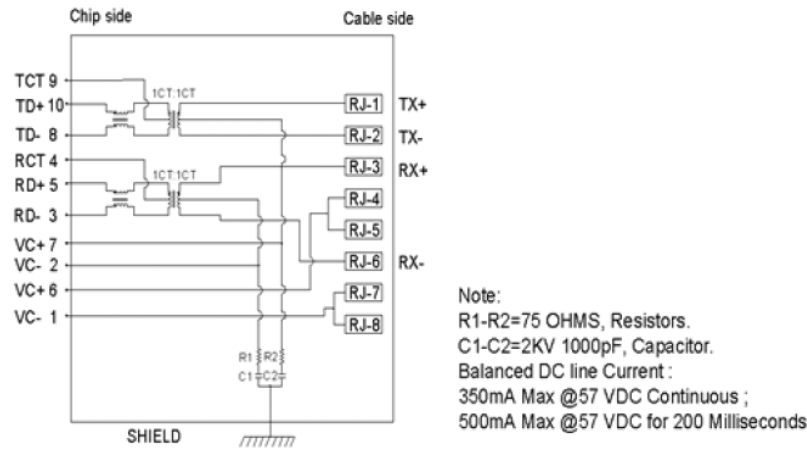
009 (100 Base-T)



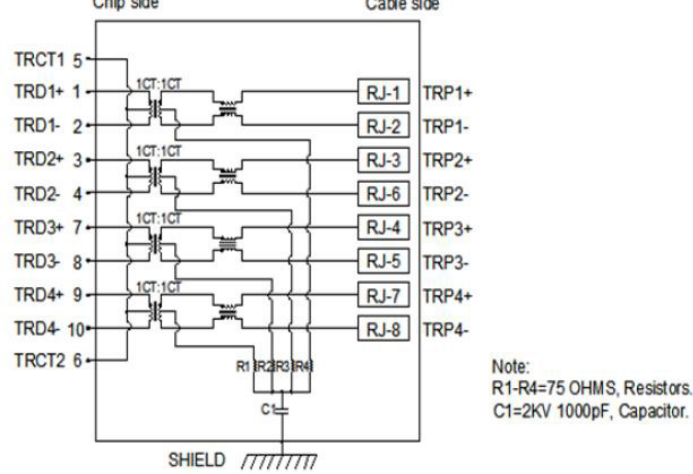
104 (100 Base-T & PoE+)



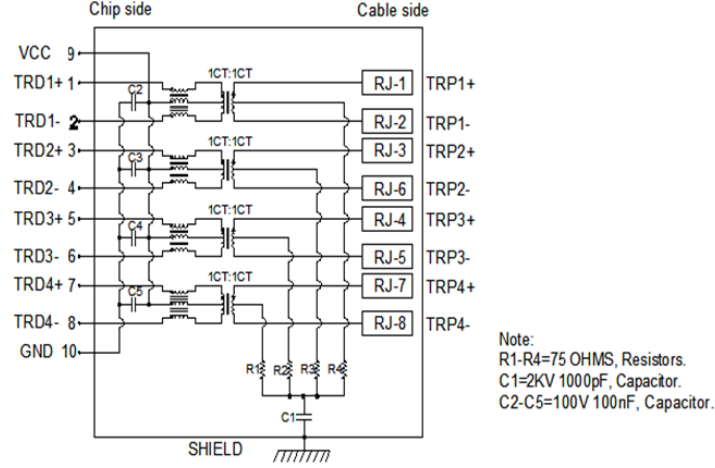
114 (100 Base-T & PoE)



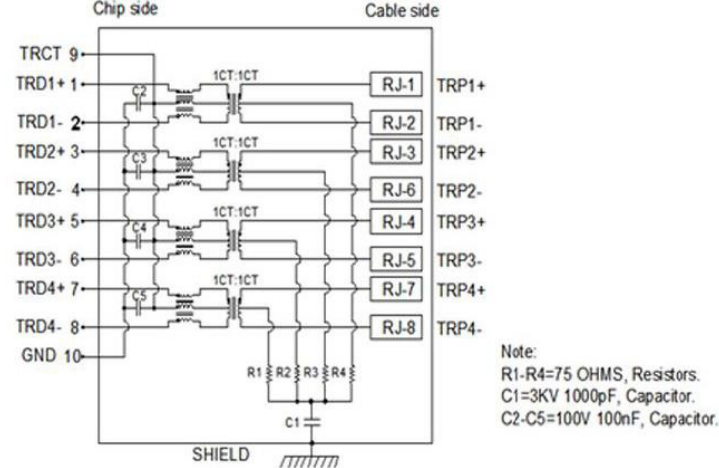
502 (1000 Base-T)



805 (2.5G Base-T)



809 (2.5G Base-T)



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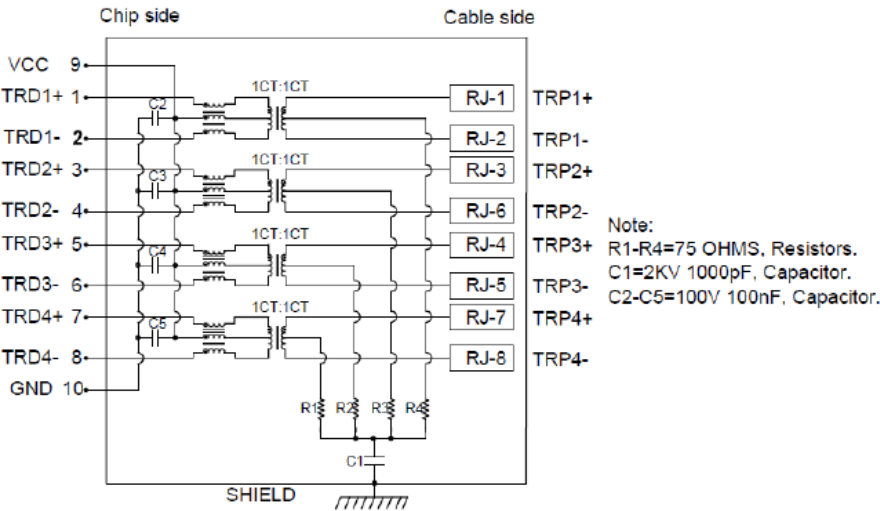
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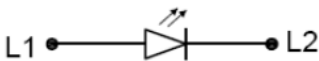
## SCHEMATICS

811 (5G Base-T)



Contact Abracon for more custom configuration options.

LED-L



LED-R

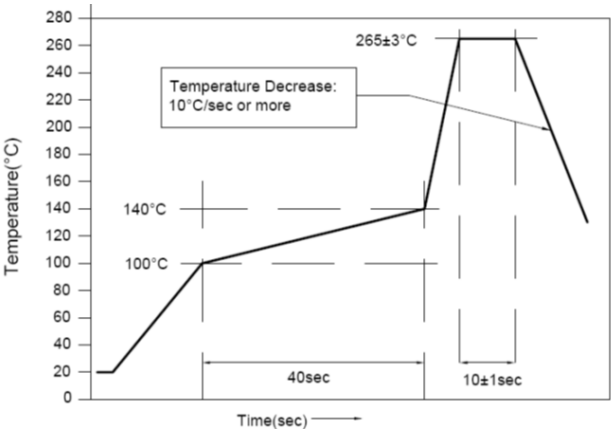


\*Note: If two LED colors are selected for left (right) side, for the first color, L1(L3) is anode and L2(L4) is cathode; for the second color, L1(L3) is cathode and L2(L4) is anode.  
For example, if J (Green/Yellow) is selected for left LED, L1 to L2 is Green; L2 to L1 is Yellow.

### LED SPECIFICATION. @20mA Forward Current

| Color           | Green     | Yellow    | Orange    | Red       |
|-----------------|-----------|-----------|-----------|-----------|
| Wavelength      | 565nm Typ | 585nm Typ | 605nm Typ | 635nm Typ |
| Forward Voltage | 2.2V Typ  | 2.1V Typ  | 2.1V Typ  | 1.8V Typ  |

## WAVE SOLDERING PROFILE



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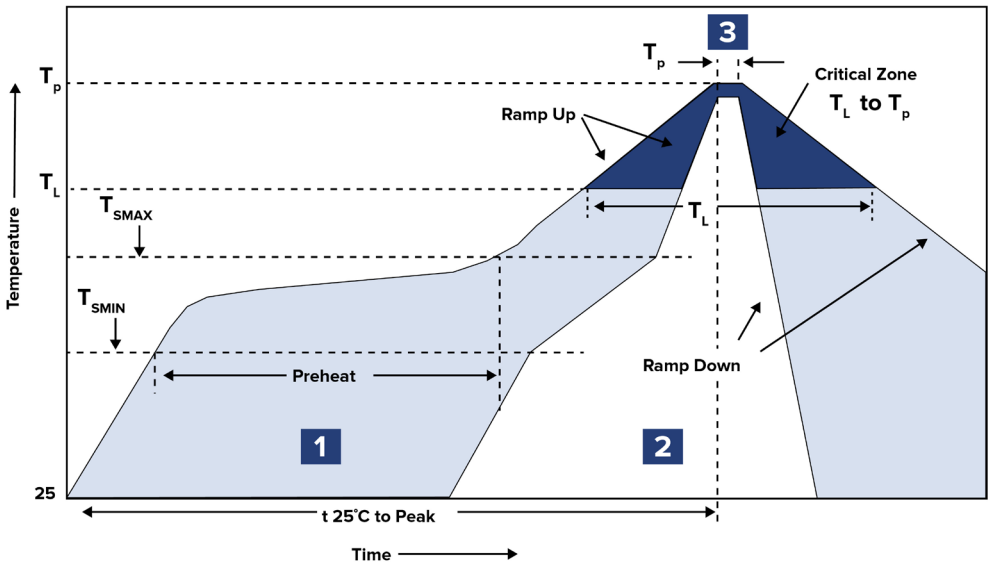


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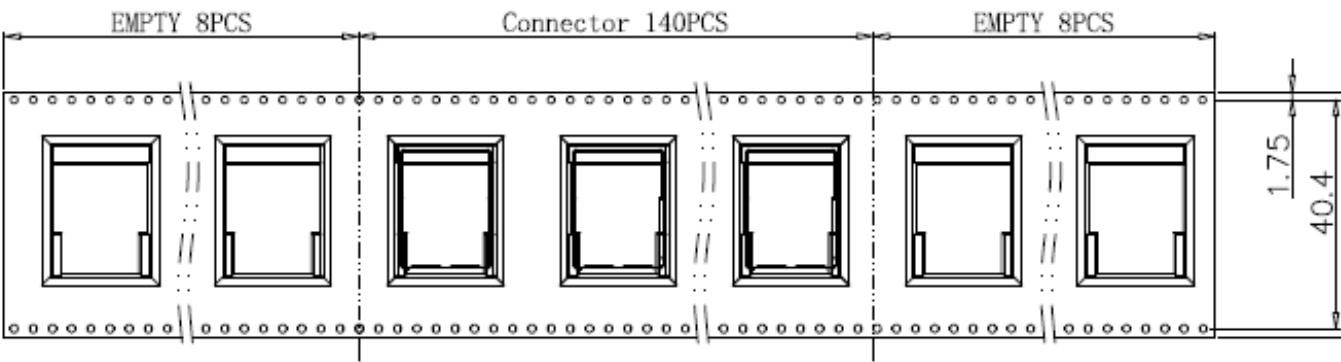
## REFLOW SOLDERING PROFILE



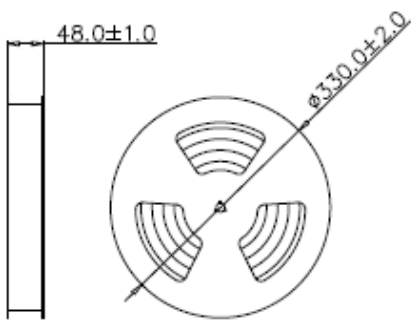
| Zone | Description | Temperature                                | Times           |
|------|-------------|--------------------------------------------|-----------------|
| 1    | Preheat     | $T_{SMIN}$ to $T_{SMAX}$<br>150°C to 180°C | 120 to 180 sec. |
| 2    | Reflow      | $T_L$<br>217°C                             | 60 to 150 sec.  |
| 3    | Peak heat   | $T_P$<br>245°C                             | 5 sec. MAX      |

## PACKING: TRAY & TAPE AND REEL

Bulk/Tray: 70pcs/tray, 700pcs/carton)  
Tray Size: L315.0 x W200.0 mm, Transparent PET  
Tape & Reel (70pcs/reel, 350pcs/carton)



DIMENSIONS: mm



DIMENSIONS: mm



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100 BASE-T STANDARD PART NUMBERS

| Part Number           | Speed      | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|------------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-009-NN-CW2   | 100 Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-009-NN-EW2   | 100 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-009-NN-ER2-T | 100 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-009-AB-CW2   | 100 Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-009-AB-EW2   | 100 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-009-AB-ER2-T | 100 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-009-KB-CW2   | 100 Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-009-KB-EW2   | 100 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-009-KB-ER2-T | 100 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-009-NN-CW2   | 100 Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-009-NN-EW2   | 100 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-009-NN-ER2-T | 100 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-009-AB-CW2   | 100 Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-009-AB-EW2   | 100 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-009-AB-ER2-T | 100 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-009-KB-CW2   | 100 Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-009-KB-EW2   | 100 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-009-KB-ER2-T | 100 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-009-NN-CW2   | 100 Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11A1-009-NN-EW2   | 100 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11A1-009-NN-ER2-T | 100 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-009-AB-CW2   | 100 Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11A1-009-AB-EW2   | 100 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11A1-009-AB-ER2-T | 100 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-009-KB-CW2   | 100 Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11A1-009-KB-EW2   | 100 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11A1-009-KB-ER2-T | 100 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-009-NN-CW2   | 100 Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11B1-009-NN-EW2   | 100 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11B1-009-NN-ER2-T | 100 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-009-AB-CW2   | 100 Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11B1-009-AB-EW2   | 100 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11B1-009-AB-ER2-T | 100 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-009-KB-CW2   | 100 Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11B1-009-KB-EW2   | 100 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11B1-009-KB-ER2-T | 100 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



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ARJM11

21.30 x 15.90 x 13.60mm  
21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

100 BASE-T POE AND POE+ STANDARD PART NUMBERS

| Part Number           | Speed           | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|-----------------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-114-NN-CW2   | 100 Base-T POE  | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-114-NN-EW2   | 100 Base-T POE  | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-114-NN-ER2-T | 100 Base-T POE  | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-114-AB-CW2   | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-114-AB-EW2   | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-114-AB-ER2-T | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-114-KB-CW2   | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-114-KB-EW2   | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-114-KB-ER2-T | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-114-NN-CW2   | 100 Base-T POE  | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-114-NN-EW2   | 100 Base-T POE  | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-114-NN-ER2-T | 100 Base-T POE  | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-114-AB-CW2   | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-114-AB-EW2   | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-114-AB-ER2-T | 100 Base-T POE  | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-114-KB-CW2   | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-114-KB-EW2   | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-114-KB-ER2-T | 100 Base-T POE  | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-104-NN-CW2   | 100 Base-T POE+ | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-104-NN-EW2   | 100 Base-T POE+ | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-104-NN-ER2-T | 100 Base-T POE+ | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-104-AB-CW2   | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-104-AB-EW2   | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-104-AB-ER2-T | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-104-KB-CW2   | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-104-KB-EW2   | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-104-KB-ER2-T | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-104-NN-CW2   | 100 Base-T POE+ | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-104-NN-EW2   | 100 Base-T POE+ | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-104-NN-ER2-T | 100 Base-T POE+ | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-104-AB-CW2   | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-104-AB-EW2   | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-104-AB-ER2-T | 100 Base-T POE+ | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-104-KB-CW2   | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-104-KB-EW2   | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-104-KB-ER2-T | 100 Base-T POE+ | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



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21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

1000 BASE-T STANDARD PART NUMBERS

| Part Number           | Speed       | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|-------------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-502-NN-CW2   | 1000 Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-502-NN-EW2   | 1000 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-502-NN-ER2-T | 1000 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-502-AB-CW2   | 1000 Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-502-AB-EW2   | 1000 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-502-AB-ER2-T | 1000 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-502-KB-CW2   | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-502-KB-EW2   | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-502-KB-ER2-T | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-502-NN-CW2   | 1000 Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-502-NN-EW2   | 1000 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-502-NN-ER2-T | 1000 Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-502-AB-CW2   | 1000 Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-502-AB-EW2   | 1000 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-502-AB-ER2-T | 1000 Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-502-KB-CW2   | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-502-KB-EW2   | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-502-KB-ER2-T | 1000 Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-502-NN-CW2   | 1000 Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11A1-502-NN-EW2   | 1000 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11A1-502-NN-ER2-T | 1000 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-502-AB-CW2   | 1000 Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11A1-502-AB-EW2   | 1000 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11A1-502-AB-ER2-T | 1000 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-502-KB-CW2   | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11A1-502-KB-EW2   | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11A1-502-KB-ER2-T | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-502-NN-CW2   | 1000 Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11B1-502-NN-EW2   | 1000 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11B1-502-NN-ER2-T | 1000 Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-502-AB-CW2   | 1000 Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11B1-502-AB-EW2   | 1000 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11B1-502-AB-ER2-T | 1000 Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-502-KB-CW2   | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11B1-502-KB-EW2   | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11B1-502-KB-ER2-T | 1000 Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



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ARJM11

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21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

## 2.5 BASE-T STANDARD PART NUMBERS

| Part Number           | Speed       | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|-------------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-805-NN-CW2   | 2.5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-805-NN-EW2   | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-805-NN-ER2-T | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-805-AB-CW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-805-AB-EW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-805-AB-ER2-T | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-805-KB-CW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-805-KB-EW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-805-KB-ER2-T | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-805-NN-CW2   | 2.5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-805-NN-EW2   | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-805-NN-ER2-T | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-805-AB-CW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-805-AB-EW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-805-AB-ER2-T | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-805-KB-CW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-805-KB-EW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-805-KB-ER2-T | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-805-NN-CW2   | 2.5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11A1-805-NN-EW2   | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11A1-805-NN-ER2-T | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-805-AB-CW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11A1-805-AB-EW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11A1-805-AB-ER2-T | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-805-KB-CW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11A1-805-KB-EW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11A1-805-KB-ER2-T | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-805-NN-CW2   | 2.5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11B1-805-NN-EW2   | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11B1-805-NN-ER2-T | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-805-AB-CW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11B1-805-AB-EW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11B1-805-AB-ER2-T | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-805-KB-CW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11B1-805-KB-EW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11B1-805-KB-ER2-T | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



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21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

5G BASE-T STANDARD PART NUMBERS

| Part Number           | Speed     | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|-----------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-811-NN-CW2   | 5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-811-NN-EW2   | 5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-811-NN-ER2-T | 5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-811-AB-CW2   | 5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-811-AB-EW2   | 5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-811-AB-ER2-T | 5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-811-KB-CW2   | 5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-811-KB-EW2   | 5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-811-KB-ER2-T | 5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-811-NN-CW2   | 5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-811-NN-EW2   | 5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-811-NN-ER2-T | 5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-811-AB-CW2   | 5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-811-AB-EW2   | 5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-811-AB-ER2-T | 5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-811-KB-CW2   | 5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-811-KB-EW2   | 5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-811-KB-ER2-T | 5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-811-NN-CW2   | 5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11A1-811-NN-EW2   | 5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11A1-811-NN-ER2-T | 5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-811-AB-CW2   | 5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11A1-811-AB-EW2   | 5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11A1-811-AB-ER2-T | 5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-811-KB-CW2   | 5G Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11A1-811-KB-EW2   | 5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11A1-811-KB-ER2-T | 5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-811-NN-CW2   | 5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11B1-811-NN-EW2   | 5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11B1-811-NN-ER2-T | 5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-811-AB-CW2   | 5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11B1-811-AB-EW2   | 5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
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| ARJM11B1-811-KB-CW2   | 5G Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11B1-811-KB-EW2   | 5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11B1-811-KB-ER2-T | 5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



5101 Hidden Creek Lane Spicewood TX 78751  
Phone: 512.371.6159 | email: abinfo@abracon.com  
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REVISED: 04.22.2019

ABRACON IS  
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RJ45 SINGLE PORT 100/1000/2.5G/5G BASE-T MAGNETICS



ARJM11

21.30 x 15.90 x 13.60mm  
21.30 x 15.90 x 13.80mm

UL Certification Number: E503350  
RoHS/RoHS II Compliant  
MSL = 1

2.5 BASE-T STANDARD PART NUMBERS CONT.

| Part Number           | Speed       | Tab Direction | LED                 | Operating Temperature | Soldering Method |
|-----------------------|-------------|---------------|---------------------|-----------------------|------------------|
| ARJM11C7-809-NN-CW2   | 2.5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11C7-809-NN-EW2   | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11C7-809-NN-ER2-T | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-809-AB-CW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11C7-809-AB-EW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11C7-809-AB-ER2-T | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11C7-809-KB-CW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11C7-809-KB-EW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11C7-809-KB-ER2-T | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-809-NN-CW2   | 2.5G Base-T | Tab Up        | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11D7-809-NN-EW2   | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11D7-809-NN-ER2-T | 2.5G Base-T | Tab Up        | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-809-AB-CW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11D7-809-AB-EW2   | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11D7-809-AB-ER2-T | 2.5G Base-T | Tab Up        | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11D7-809-KB-CW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11D7-809-KB-EW2   | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11D7-809-KB-ER2-T | 2.5G Base-T | Tab Up        | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-809-NN-CW2   | 2.5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11A1-809-NN-EW2   | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11A1-809-NN-ER2-T | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-809-AB-CW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
| ARJM11A1-809-AB-EW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Wave             |
| ARJM11A1-809-AB-ER2-T | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | -40°C ~ 85°C          | Reflow           |
| ARJM11A1-809-KB-CW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | 0°C ~ 70°C            | Wave             |
| ARJM11A1-809-KB-EW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11A1-809-KB-ER2-T | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-809-NN-CW2   | 2.5G Base-T | Tab Down      | No LED              | 0°C ~ 70°C            | Wave             |
| ARJM11B1-809-NN-EW2   | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Wave             |
| ARJM11B1-809-NN-ER2-T | 2.5G Base-T | Tab Down      | No LED              | -40°C ~ 85°C          | Reflow           |
| ARJM11B1-809-AB-CW2   | 2.5G Base-T | Tab Down      | Left: G, Right: Y   | 0°C ~ 70°C            | Wave             |
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| ARJM11B1-809-KB-EW2   | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Wave             |
| ARJM11B1-809-KB-ER2-T | 2.5G Base-T | Tab Down      | Left: G/O, Right: Y | -40°C ~ 85°C          | Reflow           |



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CERTIFIED

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В нашем ассортименте представлены ведущие мировые производители активных и пассивных электронных компонентов.

Нашей специализацией является поставка электронной компонентной базы двойного назначения, продукции таких производителей как XILINX, Intel (ex.ALTERA), Vicor, Microchip, Texas Instruments, Analog Devices, Mini-Circuits, Amphenol, Glenair.

Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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### Офис по работе с юридическими лицами:

105318, г.Москва, ул.Щербаковская д.3, офис 1107, 1118, ДЦ «Щербаковский»

Телефон: +7 495 668-12-70 (многоканальный)

Факс: +7 495 668-12-70 (доб.304)

E-mail: [info@moschip.ru](mailto:info@moschip.ru)

Skype отдела продаж:

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