

# CUC-IB5M-J1ST-AT/R4T-L1 - Filtered RJ45 PCB connectors



1663963

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Filtered RJ45 PCB connectors, connection direction of the connector to the PCB: 90 °, Tab up, number of positions: 8, 10/100 Mbps, THT, Wave, type of packaging: Tray

## Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- Tray packing
- Space-saving due to the compact design
- Outstanding EMI performance
- Enables space-saving PCB design while simultaneously reducing the BOM thanks to integrated filters and transformers
- Ideal for demanding industrial applications due to the high shock and vibration resistance as well as the extended temperature range

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1663963       |
| Packing unit                         | 50 pc         |
| Minimum order quantity               | 50 pc         |
| Sales key                            | AB12          |
| Product key                          | ABNAFA        |
| GTIN                                 | 4067923202443 |
| Weight per piece (including packing) | 8.95 g        |
| Weight per piece (excluding packing) | 6.1 g         |
| Customs tariff number                | 85366930      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                          |                              |
|--------------------------|------------------------------|
| Product type             | Data connector (device side) |
| Sensor type              | Universal                    |
| Number of positions      | 8                            |
| Note number of positions | 8P8C                         |
| Connection profile       | RJ45                         |
| Housing shield springs   | No                           |
| Number of slots          | 1                            |
| Shielded                 | yes                          |

### Insulation characteristics

|                      |   |
|----------------------|---|
| Overvoltage category | I |
| Degree of pollution  | 2 |

### Electrical properties

|                       |                         |
|-----------------------|-------------------------|
| Rated surge voltage   | 1.5 kV DC (IEC 60664-1) |
| Rated current         | 0.5 A                   |
| Insulation resistance | > 500 MΩ (IEC 60603-7)  |
| Transmission speed    | 100 Mbps                |
| Transmission speed    | 10/100 Mbps             |

### Connection data

#### Connection technology

|                   |        |
|-------------------|--------|
| Connection method | Female |
|-------------------|--------|

### Signaling

|                        |     |
|------------------------|-----|
| Status display present | yes |
|------------------------|-----|

### Dimensions

|                    |          |
|--------------------|----------|
| Width              | 15.75 mm |
| Height             | 17.4 mm  |
| Length             | 21.5 mm  |
| Installed height   | 13.80 mm |
| Orientation to PCB | 90.00 °  |
| Data pin length    | 3.20 mm  |

### Material specifications

|                  |                                |
|------------------|--------------------------------|
| Material         | Au (0.762 µm/30 µ")            |
| Material         | Ni (1,270 µm min / 50 µ" min)  |
| Material         | Sn (3,048 µm min / 120 µ" min) |
| Material         | Ni (1,016 µm min / 40 µ" min)  |
| Material Housing | Ni (0.762 µm min / 30 µ" min)  |

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|                          |                                |
|--------------------------|--------------------------------|
| Material Contact         | Phosphor bronze                |
| Material                 | Sn (3,048 µm min / 120 µ" min) |
| Material Contact carrier | LCP                            |

## Cable/line

|                          |                          |
|--------------------------|--------------------------|
| Test voltage Core/Shield | 1.50 kV DC (IEC 60603-7) |
| Halogen-free             | yes                      |
| Flame resistance         | UL 94 V0                 |

## Mechanical properties

|                             |                      |
|-----------------------------|----------------------|
| Mechanical data             |                      |
| Insertion/withdrawal cycles | > 750 (IEC 60603-7)  |
| Insertion force             | < 20 N (IEC 60603-7) |
| Withdrawal force            | < 20 N (IEC 60603-7) |

## Environmental and real-life conditions

|                    |             |
|--------------------|-------------|
| Test specification |             |
| Specification      | IEC 60603-7 |

## Ambient conditions

|   |                    |
|---|--------------------|
| Degree of protection (when plugged in)  | IP20 (IEC 60603-7) |
| Degree of protection                    | IP20 (IEC 60603-7) |
| Ambient temperature (operation)         | -40 °C ... 85 °C   |
| Ambient temperature (storage/transport) | -40 °C ... 85 °C   |

## Standards and regulations

|                  |          |
|------------------|----------|
| Flame resistance | UL 94 V0 |
|------------------|----------|

## Mounting

|               |     |
|---------------|-----|
| Mounting type | THT |
|---------------|-----|

|                                  |        |
|----------------------------------|--------|
| Processing notes                 |        |
| Classification temperature $T_c$ | 260 °C |

## Packaging specifications

|                   |      |
|-------------------|------|
| Type of packaging | Tray |
|-------------------|------|

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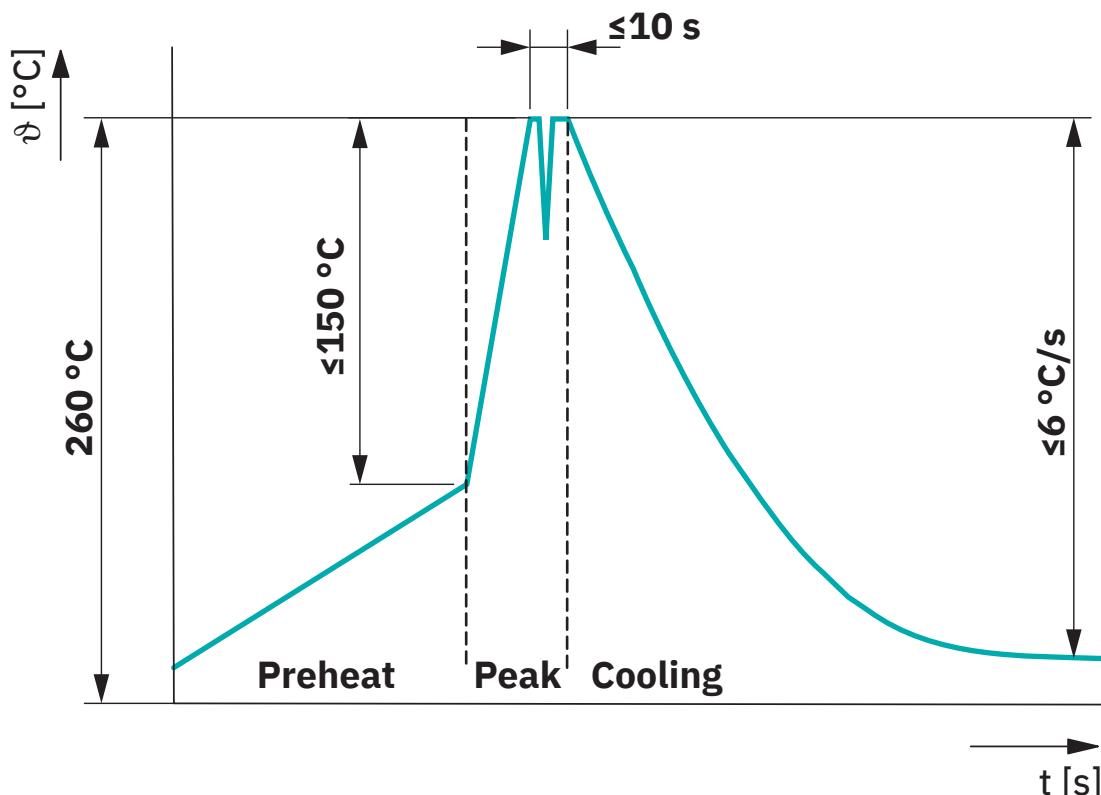


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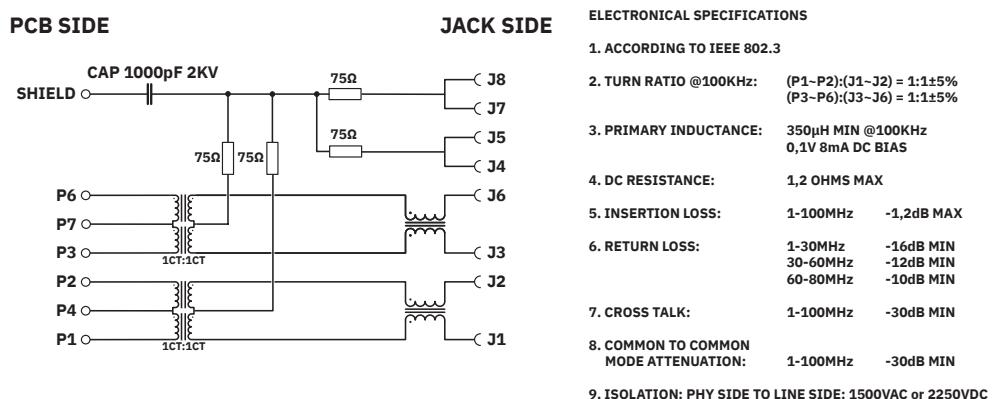
## Drawings

Diagram



Classification wave soldering profile

Circuit diagram



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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| ECLASS-13.0 | 27460201 |
| ECLASS-15.0 | 27460201 |

### ETIM

|          |          |
|----------|----------|
| ETIM 9.0 | EC002637 |
|----------|----------|

### UNSPSC

|             |          |
|-------------|----------|
| UNSPSC 21.0 | 39121400 |
|-------------|----------|

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## Environmental product compliance

### EU RoHS

|   |                    |
|---|--------------------|
| Fulfills EU RoHS substance requirements | Yes, No exemptions |
|---|--------------------|

### China RoHS

|  |  |
|--|--|
| Environment friendly use period (EFUP) | EFUP-E                                   |
|  | No hazardous substances above the limits |

### EU REACH SVHC

|                                     |                            |
|-------------------------------------|----------------------------|
| REACH candidate substance (CAS No.) | No substance above 0.1 wt% |
|-------------------------------------|----------------------------|

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