

# CUC-SP-J1ST-S/R4LT-THR-LED - Modular RJ45 PCB connectors



1337239

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 180 °, Shielded, LED (yellow, green), number of positions: 8, 10 Gbps, PoE++, THT-THR, THD, Reflow, IP20, type of packaging: Tape and Reel

## Your advantages

- The right version for every application. Available with and without LED, single- and multi-port
- The reflow capability enables efficient, cost-optimized processing
- High standoffs allow ideal thermal airflow during processing
- Tape-on-reel packaging is perfect for automated processing
- The extended temperature range from -50 °C ... +85 °C enables use in demanding applications
- Through-hole technology (THT) provides high mechanical stability when connecting the female connector to the PCB

## Commercial data

|                                      |               |
|--------------------------------------|---------------|
| Item number                          | 1337239       |
| Packing unit                         | 120 pc        |
| Minimum order quantity               | 120 pc        |
| Sales key                            | AB12          |
| Product key                          | ABNADA        |
| GTIN                                 | 4063151639037 |
| Weight per piece (including packing) | 7.42 g        |
| Weight per piece (excluding packing) | 7.42 g        |
| Customs tariff number                | 85366930      |
| Country of origin                    | CN            |

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## Technical data

### Product properties

|                     |  |
|---------------------|--|
| Slots               | 1x1 single-port                                |
| Orientation to PCB  | 180.00 °                                       |
| Type                | THD  |
| Number of positions | 8 (8P8C)                                       |
| Type of locking     | Snap-in locking                                |
| Shielding           | Shielded                                       |
| Status display      | LED (yellow, green)                            |
| Processing notes    | Reflow   |
| Type of packaging   | Tape and Reel                                  |
| Transmission speed  | 10 Gbps  |
| Power transmission  | PoE++ (according to IEEE 802.3bt)              |
| Power PSE           | 90 W (Class 8 in accordance with IEEE 802.3bt) |
| Power PD            | 71 W (Class 4 in accordance with IEEE 802.3bt) |

### Electrical properties

|                                |                         |
|--------------------------------|-------------------------|
| Pollution degree               | 2                       |
| Overvoltage category           | I (IEC 60664-1)         |
| Rated voltage                  | 72 V DC                 |
| Rated surge voltage            | 1.5 kV DC (IEC 60664-1) |
| Rated current                  | 1.5 A (IEC 60603-7)     |
| Insulation resistance          | > 500 MΩ (IEC 60603-7)  |
| Test voltage (Contact/contact) | 1.5 kV DC (IEC 60603-7) |
| Test voltage (Contact/shield)  | 1.5 kV DC (IEC 60603-7) |

### Dimensions

|                  |          |
|------------------|----------|
| Length           | 13.6 mm  |
| Width            | 16.8 mm  |
| Height           | 19.6 mm  |
| Installed height | 16.50 mm |
| Data pin length  | 2.00 mm  |

### Material specifications

|  |                    |
|--|--------------------|
| Material Contact carrier                             | LCP                |
| Flame resistance                                     | UL 94 V0           |
| Halogen-free   | yes                |
| Material Housing                                     | Stainless steel    |
| Material Housing pin coating (top layer/selective)   | Sn                 |
| Material Contact                                     | Phosphor bronze    |
| Material Solder contact coating (intermediate layer) | Ni (1.27 μm/50 μ") |

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|   |  |
|---|--|
| Material Solder contact coating (top layer/selective) | Sn (2.54 $\mu\text{m}$ / 100 $\mu\text{m}$ ) |
| Material Plug contact coating (top layer/selective)   | Au (1.27 $\mu\text{m}$ /50 $\mu\text{m}$ )   |
| Material Plug contact coating (intermediate layer)    | Ni (1.27 $\mu\text{m}$ /50 $\mu\text{m}$ )   |

## 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

### Ambient conditions

|   |                    |
|---|--------------------|
| Ambient temperature (operation)         | -50 °C ... 85 °C   |
| Ambient temperature (storage/transport) | -50 °C ... 85 °C   |
| Degree of protection (plugged in)       | IP20 (IEC 60603-7) |
| Degree of protection (Not plugged in)   | IP20 (IEC 60603-7) |

### Test specification for vibration - sine

|              |                   |
|--------------|-------------------|
| Acceleration | 50 $\text{m/s}^2$ |
| Amplitude    | 0.35 mm           |
| Sweep speed  | 1 octave/min      |

## Mounting

### Processing notes

|                             |                        |
|-----------------------------|------------------------|
| Mounting type               | THT-THR                |
| Moisture Sensitive Level    | MSL 1 (IEC 60068-2-58) |
| Solder cycles in the reflow | 3 (IEC 60068-2-58)     |

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### Drawings

Diagram



Classification reflow soldering profile

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## Approvals

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**UL Recognized**

Approval ID: FILE E 335024

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## Classifications

### ECLASS

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

### ETIM

|           |          |
|-----------|----------|
| ETIM 10.0 | 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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