

CUC-SP-J1ST-A/R4LB-SMD - Modular RJ45 PCB connectors



1149874

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab down, Shielded, number of positions: 8, 10 Gbps, PoE++, SMT, Reflow, type of packaging: Tape and Reel

Your advantages

- The reflow capability enables efficient, cost-optimized processing
- Tape-on-reel packaging is perfect for automated processing
- The extended temperature range from -40 °C to +85 °C enables use in demanding applications

Commercial data

Item number	1149874
Packing unit	110 pc
Minimum order quantity	110 pc
Sales key	AB12
Product key	ABNADB
GTIN	4063151146337
Weight per piece (including packing)	7.727 g
Weight per piece (excluding packing)	7.727 g
Customs tariff number	85366930
Country of origin	TW

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Technical data

Product properties

Product type	Data connector (device side)
Slots	1x1 single-port
Orientation to PCB	90.00 °
Type	SMD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking Tab down
Shielding	Shielded
application range	Reflow
Type of packaging	Tape and Reel
Transmission speed	10 Gbps
PoE/PoE+	PoE++
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

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Frequency range	10 Hz ... 500 Hz
Test voltage	1.5 kV DC IEC 60603-7 (Contact - contact) 1.5 kV DC IEC 60603-7 (Contact - shield)
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	Female
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Signaling

Status display present	no
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Dimensions

Width	18.1 mm
Height	15 mm
Length	20.85 mm
Installed height	11.80 mm
Orientation to PCB	90.00 °

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Material specifications

Material Plug contact coating (top layer/selective)	Au (0,152 µm / 6 µ")
Material Plug contact coating (intermediate layer)	Ni (1.27 µm/50 µ")
Material Solder contact coating (top layer/selective)	Sn (2.54 µm/100 µ")
Material Solder contact coating (intermediate layer)	Ni (1.27 µm/50 µ")
Material Housing	Ni (0,508 µm / 20 µ")
Material Contact	Phosphor bronze
Material Housing pin coating (top layer/selective)	Ni (0,508 µm / 20 µ")
Material Contact carrier	PA

Cable/line

Shielding	Shielded
Halogen-free	no
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	
Frequency	10-500 Hz
Sweep speed	1 octave/min
Amplitude	0.35 mm
Acceleration	50.00 m/s ²
Test duration	20.00 s

Test specification	
Specification	IEC60068-2-27
Acceleration	295.00 m/s ²

Ambient conditions	
Degree of protection (when plugged in)	IP20 (IEC 60603-7)
Degree of protection (not plugged in)	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
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Mounting

Mounting type	SMT
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Processing notes

Moisture Sensitive Level	MSL 1
Classification temperature T_c	260 °C
Solder cycles in the reflow	3

Packaging specifications

Type of packaging	Tape and Reel
[W] tape width	44 mm
[W2] coil overall dimension	49 mm
[A] coil diameter	330 mm

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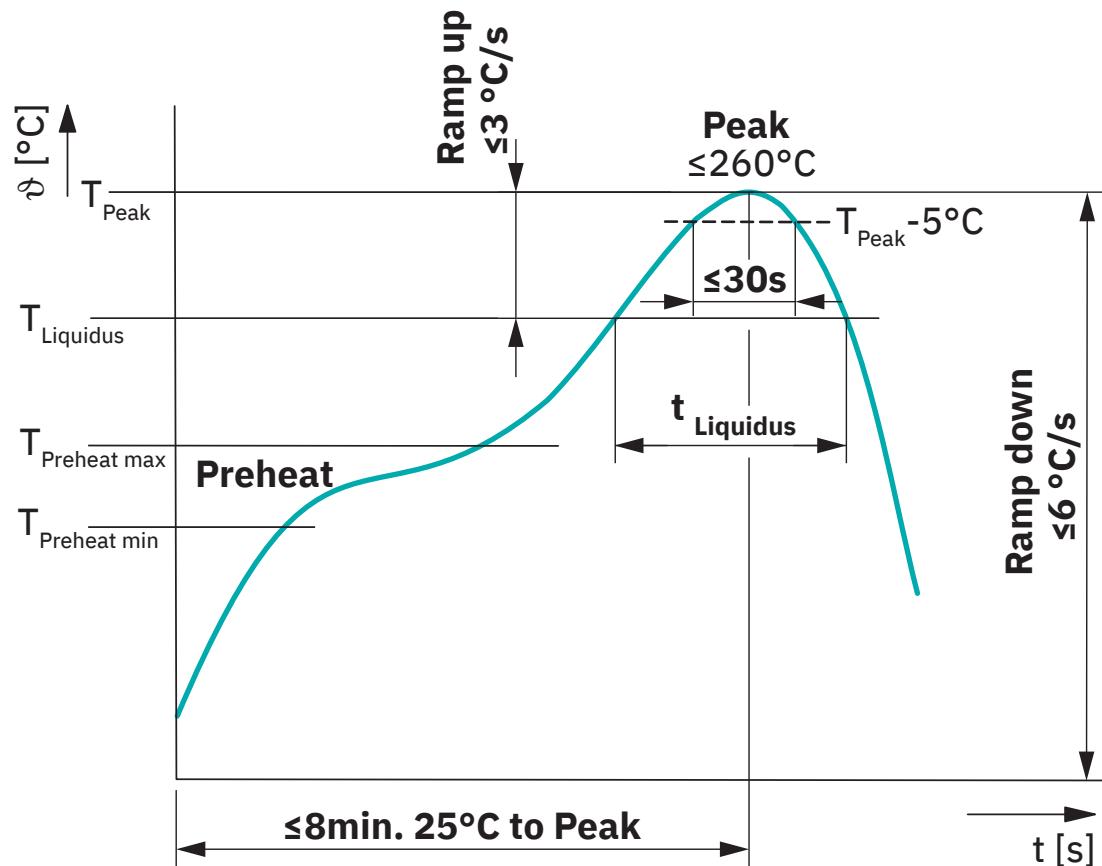


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Drawings

Diagram



Classification reflow soldering profile

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Approvals

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cUL Recognized

Approval ID: FILE E 335024



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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637
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UNSPSC

UNSPSC 21.0	39121400
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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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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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