

CUC-SP-J1ST-A/R4LT-SMD - RJ45 PCB connector



1149882

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RJ45 PCB connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, material: Metal, connection method: SMD reflow

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	1149882
Packing unit	100 pc
Minimum order quantity	100 pc
Sales key	ABNADB
Product key	ABNADB
GTIN	4063151145873
Weight per piece (including packing)	7.42 g
Weight per piece (excluding packing)	5.78 g
Customs tariff number	85366930
Country of origin	TW

Technical data

Product properties

Product type	Data connector (device side)
Type	RJ45
Number of positions	8
Connection profile	RJ45
Type of packaging	Tape and Reel
[W] tape width	44.00 mm
[A] coil diameter	330.00 mm
[W2] coil overall dimension	49.00 mm
Housing shield springs	No
Number of slots	1
Type	Socket
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage (III/2)	72 V DC
Rated surge voltage	1.5 kV DC
Rated surge voltage (III/3)	1.5 kV
Rated surge voltage	1 kV DC
Rated current	1.5 A
Frequency range	10 Hz ... 500 Hz
Insulation resistance	> 500 MΩ
Test voltage	1 kV DC
Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Transmission medium	Copper
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	SMD reflow
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Dimensions

Width	18.8 mm
Height	13.5 mm
Length	15.75 mm

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Installed height	13.50 mm
Orientation to PCB	90.00 °

Material specifications

Material Metal surface contact area (top layer)	Au (0.152 µm/6 µ")
Material Metal surface contact area (middle layer)	Ni (1.27 µm/50 µ")
Material Metal surface soldering area (middle layer)	Ni (1.27 µm/50 µ")
Material	Copper alloy (Housing (shielding))
Flammability rating according to UL 94	V0
Housing material	Metal
Housing surface material	Ni
Contact material	Phosphor bronze
Contact surface material	Gold
Contact carrier material	PA 9T GF

Cable/line

Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Halogen-free	no
Flame resistance	UL 94 V0

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 750
Insertion force per signal contact	< 20.00 N
Extraction force per signal contact	< 20 N

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	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

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Flame resistance	UL 94 V0
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Mounting

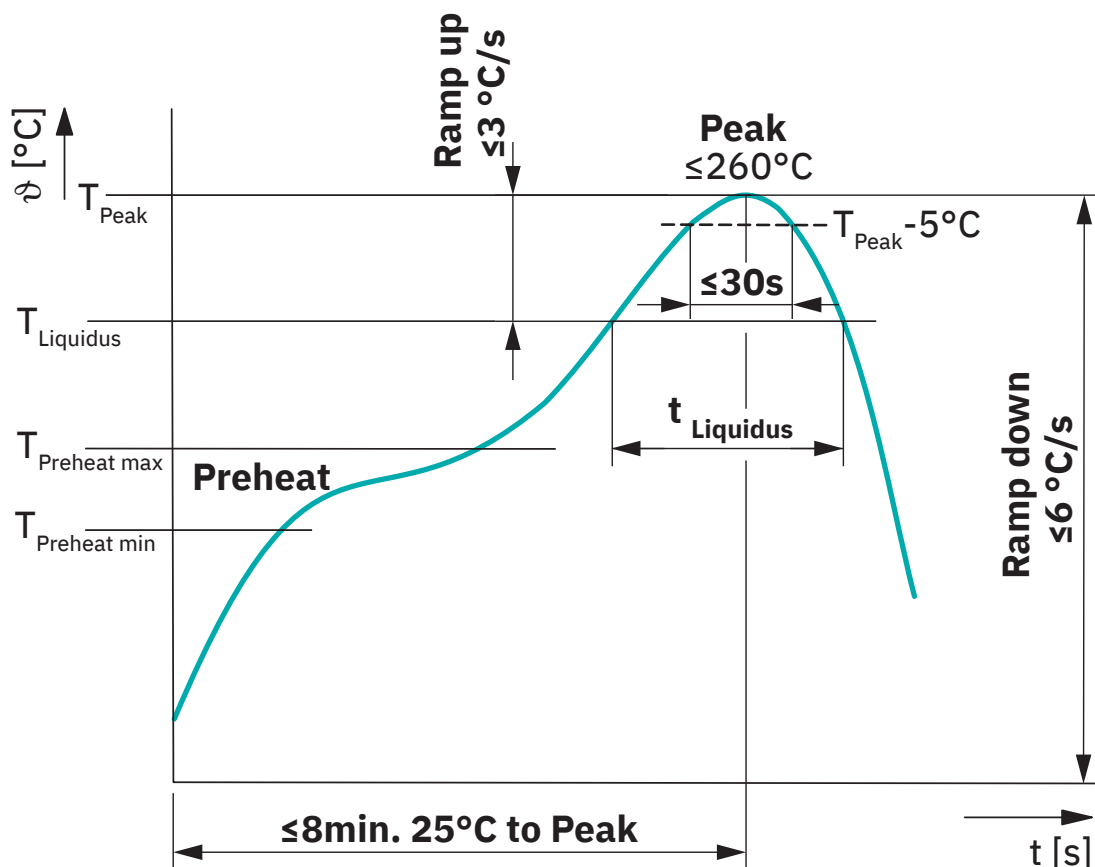
Mounting type	SMD soldering
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Processing notes

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

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
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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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