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

1149611

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RJ45 PCB connector, number of positions: 8, 10 Gbps, connection method: SMD reflow

Your advantages

• The reflow capability enables efficient, cost-optimized processing

• The extended temperature range from -40 °C to +85 °C enables use in demanding applications

Commercial data

Item number	1149611
Packing unit	180 pc
Minimum order quantity	180 pc
Sales key	AB12
Product key	ABNADB
GTIN	4063151143848
Weight per piece (including packing)	6.26 g
Weight per piece (excluding packing)	4.63 g
Customs tariff number	85366930
Country of origin	TW

Technical data

Product properties

Product type	Data connector (device side)
Number of positions	8
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 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
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	SMD reflow

Dimensions

Width	16.1 mm
Height	14.5 mm
Length	13.5 mm
Installed height	13.20 mm
Orientation to PCB	180.00 °

Material specifications

Material Metal surface contact area (middle layer)	Ni (1.27 µm/50 µ")
Material	Copper alloy

Flammability rating according to UL 94	V0

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/s²
Test duration	20.00 s

Test specification

Specification	IEC60068-2-27
Acceleration	295.00 m/s²

Ambient conditions

Degree of protection (when plugged in)	IP20
Degree of protection (not plugged in)	IP20
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	SMD soldering

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

Drawings

Diagram
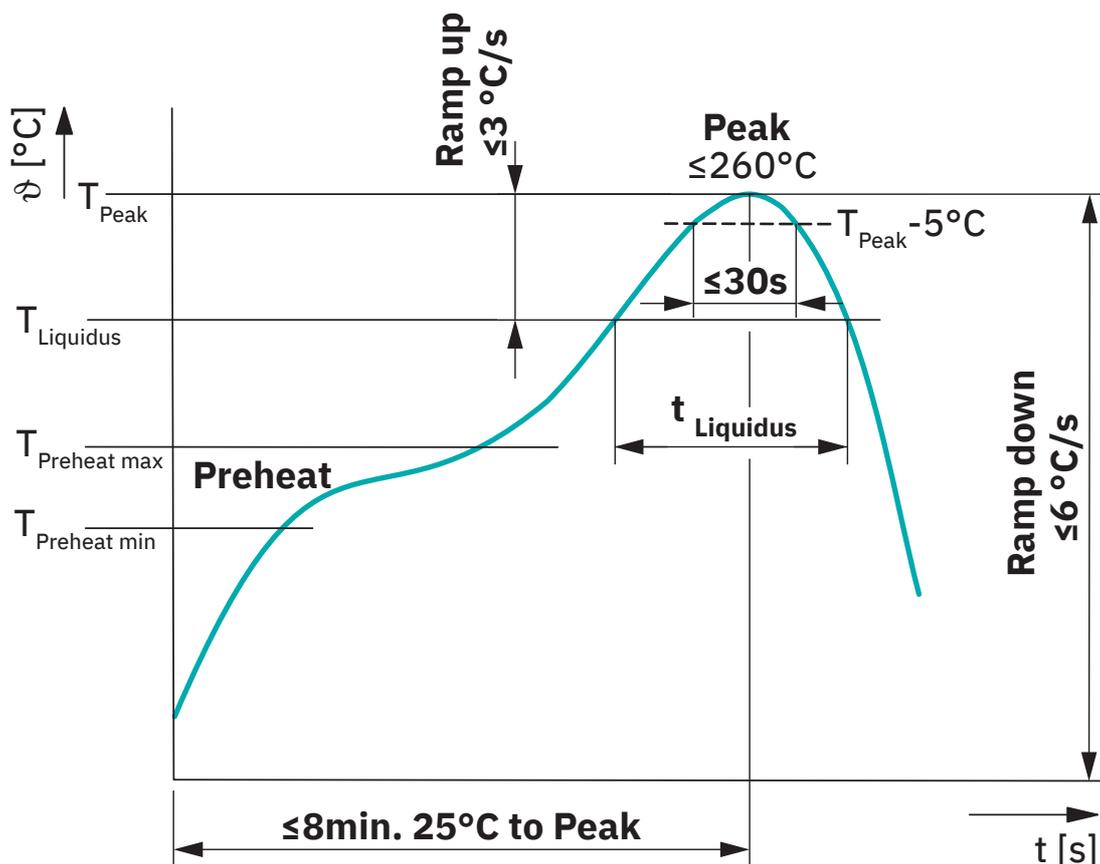
Classification reflow soldering profile

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1149611

cUL Recognized
Approval ID: FILE E 335024

UL Recognized
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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637

UNSPSC

UNSPSC 21.0	39121400

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%