

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



1149870

<https://www.phoenixcontact.com/us/products/1149870>

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RJ45 PCB connector, number of positions: 8, 10 Gbps, connection method: THT wave



Your advantages

- The right version for every application. Available with and without LED, single- and multi-port
- The extended temperature range from -40 °C to +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	1149870
Packing unit	80 pc
Minimum order quantity	80 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151144883
Weight per piece (including packing)	4.689 g
Weight per piece (excluding packing)	4.2 g
Customs tariff number	85366930
Country of origin	TW

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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	THT wave
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Dimensions

Width	16.18 mm
Height	11.3 mm
Length	15 mm
Installed height	11.30 mm
Orientation to PCB	90.00 °
Data pin length	2.40 mm

Material specifications

Material Metal surface contact area (top layer)	Au (0.152 μm/6 μ")
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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))
Material Contact	Phosphor bronze
Material Contact carrier	PA 9T GF
Material Housing	Metal
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/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
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
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Mounting

Mounting type	Wave soldering
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Processing notes

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1149870

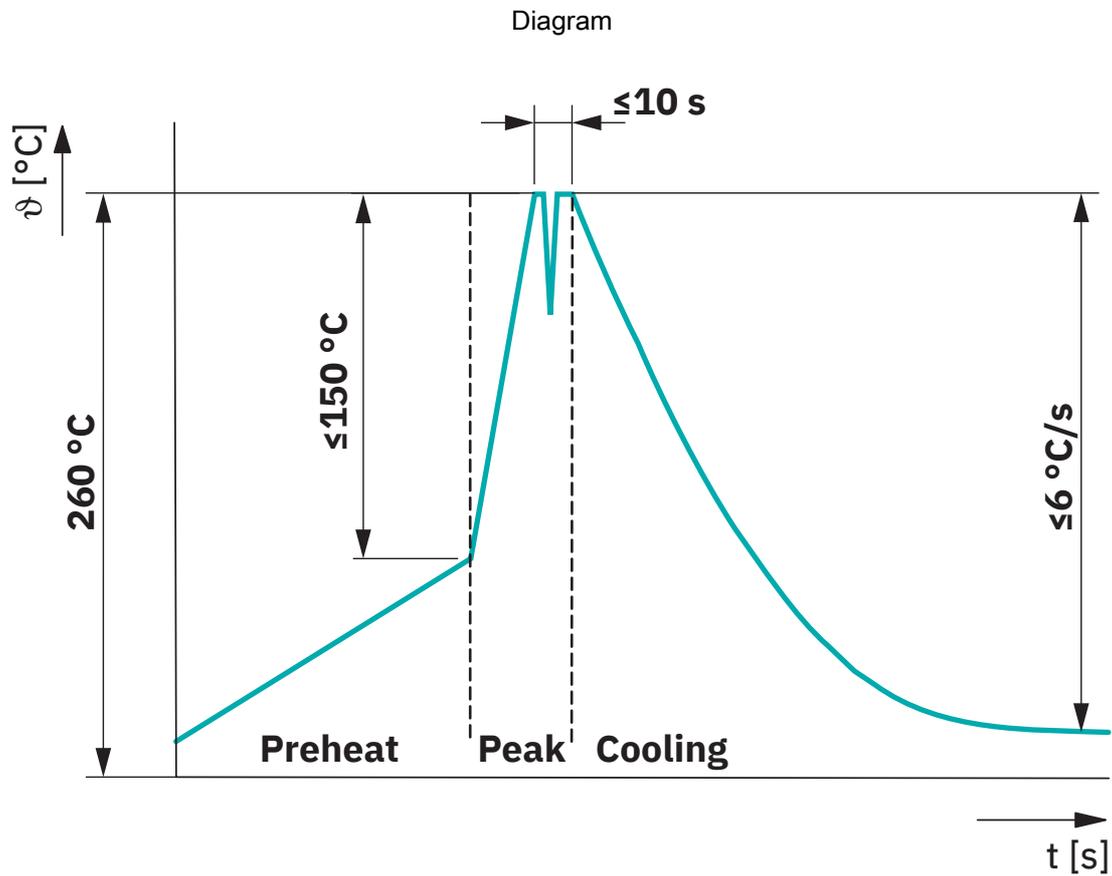
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Classification temperature T _c	260 °C
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Packaging specifications

Type of packaging	Tray
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Drawings



Classification wave 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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