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

1149870

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

RJ45 PCB connector, design: RJ45, degree of protection: IP20, number of positions: 8, 10 Gbps, material: Metal, 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)
Type	RJ45
Number of positions	8
Connection profile	RJ45
Type of packaging	Tray
Housing shield springs	No
Number of slots	1
Type	Socket
Shielded	yes

Data management status

Article revision	00

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	THT wave

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	Au (0.152 µm/6 µ") (Metal surface contact area (top layer))
	Ni (1.27 µm/50 µ") (Metal surface contact area (middle layer))
	Ni (1.27 µm/50 µ") (Metal surface soldering area (middle layer))
	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/s²
Test duration	20.00 s

Test specification

Specification	IEC60068-2-27
Acceleration	295.00 m/s²

Ambient conditions

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

Standards and regulations

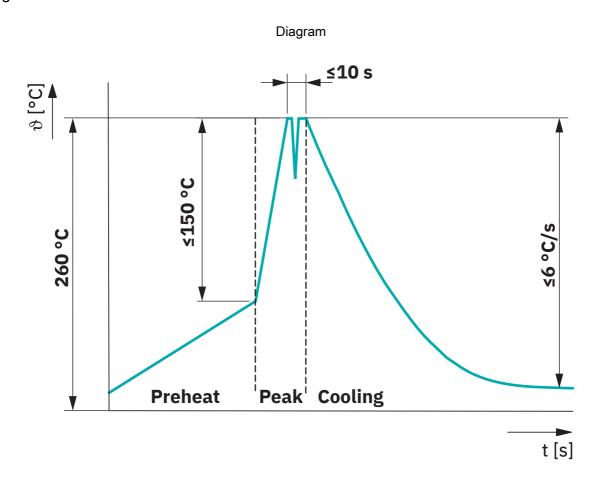1149870

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Flame resistance	UL 94 V0

Mounting

Mounting type	Wave soldering

Processing notes

Classification temperature T_c	260 °C

Drawings

Diagram

Classification wave soldering profile

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/1149870

cUL Recognized
Approval ID: FILE E 335024

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Classifications

ECLASS

ECLASS-11.0	27440223
ECLASS-12.0	27440223
ECLASS-13.0	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%