CUC-IND-J1ST-S/R4LS-LED-PG - RJ45 PCB connector

1099282

https://www.phoenixcontact.com/us/products/1099282

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RJ45 PCB connector, number of positions: 8, 10 Gbps, THR soldering, degree of protection: IP20, connection method: THR reflow/THT wave, Tray

Your advantages

- Ideal for demanding applications due to the high shock and vibration resistance as well as the extended temperature range
- 360° shielding ensures reliable transmission, even in industrial applications
- Housing shield springs enable an optimized EMC shielding concept
- With integrated hybrid LEDs as optical status indicators of data transmission
- Enables data transmission rates of up to 10 Gbps
- Automated handling process thanks to reflow capability
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications
- Tray packing

Commercial data

Item number	1099282
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4055626948102
Weight per piece (including packing)	5.3 g
Weight per piece (excluding packing)	5.1 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Product type	Data connector (device side)
Number of positions	8
Connection profile	RJ45
Housing shield springs	Yes
Number of slots	1
Shielded	yes
LED	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC
Rated current	1.5 A
Frequency range	10 Hz ... 500 Hz
Insulation resistance	> 500 MΩ
Transmission speed	10 Gbps
Transmission speed	10 Gbps
Power transmission	PoE++

Connection data

Connection technology

Connection method	THR reflow/THT wave

Dimensions

Width	18 mm
Height	16.8 mm
Length	17.9 mm
Installed height	14.30 mm
Orientation to PCB	180.00 °
Data pin length	3.18 mm

Material specifications

Material Metal surface contact area (top layer)	Au (1.27 µm/50 µ")
Material Metal surface contact area (middle layer)	Ni
Material Metal surface soldering area (top layer)	Au
Material Metal surface soldering area (middle layer)	Ni
Material Housing	Sn (Shield contact)
Material Contact	Copper alloy

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Material Housing	Metal

Cable/line

Test voltage Core/Core	1 kV DC
Test voltage Core/Shield	1.50 kV DC
Halogen-free	yes
Flame resistance	UL 94 V0

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 750
Insertion force	20 N
Withdrawal force	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 ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °C

Standards and regulations

Flame resistance	UL 94 V0

Mounting

Mounting type	THR soldering

Processing notes

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

Packaging specifications

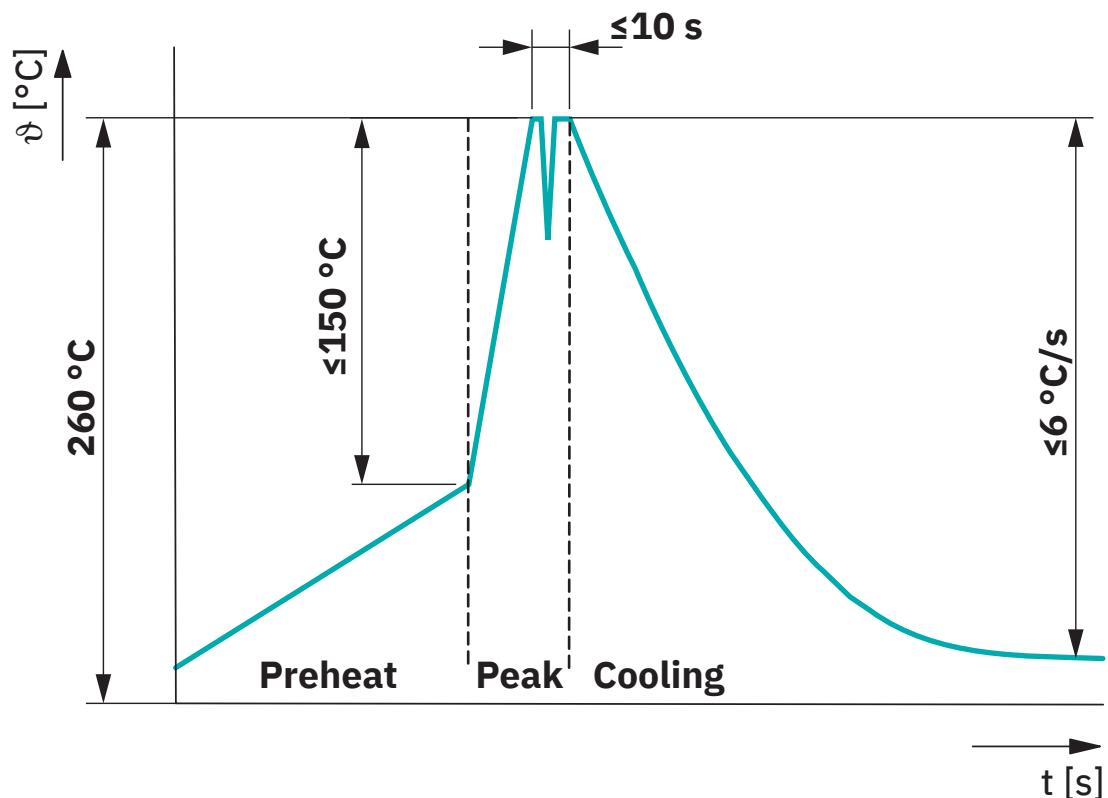| Type of packaging	Tray

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Drawings

Diagram

ϑ [°C]

≤10 s

260 °C

≤150 °C

≤6 °C/s

Preheat   **Peak**   **Cooling**

t [s]

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

UNSPSC

UNSPSC 21.0	39121400

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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%

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