CUC-IND-J1ST-A/R4LS-PG-S - Modular RJ45 PCB connectors

1321248

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Modular RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab up, Shielded, shield springs, number of positions: 8, PoE++, THT-THR, THD, Reflow, IP20, type of packaging: Tape and Reel

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
- Automated handling process thanks to reflow capability
- The extended temperature range from -40°C to +105°C enables use in demanding industrial applications
- Tape-on-reel packaging

Commercial data

Item number	1321248
Packing unit	84 pc
Minimum order quantity	84 pc
Sales key	AB12
Product key	ABNADA
GTIN	4063151608316
Weight per piece (including packing)	9.18 g
Weight per piece (excluding packing)	9.1 g
Customs tariff number	85366930
Country of origin	CN

Technical data

Product properties

Slots	1x1 single-port
Orientation to PCB	90.00 °
Type	THD
Connection profile	RJ45
Number of positions	8 (8P8C)
Type of locking	Snap-in locking, Tab up
Shielding	Shielded, shield springs
Processing notes	Reflow
Type of packaging	Tape and Reel
Power transmission	PoE++ (according to IEEE 802.3bt)
Power PSE	90 W (Class 8 in accordance with IEEE 802.3bt)
Power PD	71 W (Class 4 in accordance with IEEE 802.3bt)

Electrical properties

Pollution degree	2 (IEC 60664-1)
Overvoltage category	I (IEC 60664-1)
Rated voltage	72 V DC
Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	1.5 A (IEC 60603-7)
Insulation resistance	> 500 MΩ (IEC 60603-7)
Test voltage (Contact/contact)	1.5 kV DC (IEC 60603-7)
Test voltage (Contact/shield)	1.5 kV DC (IEC 60603-7)

Dimensions

Length	17.1 mm
Width	18 mm
Height	17.6 mm
Installed height	12.80 mm
Data pin length	2.00 mm

Material specifications

Material Contact carrier	PA
Flame resistance	UL 94 V0
Halogen-free	yes
Material Housing	Copper alloy
Material Housing coating	Ni
Material Housing pin coating (top layer/selective)	Ni
Material Contact	Copper alloy
Material Solder contact coating (intermediate layer)	Ni

Material Solder contact coating (top layer/selective)	Au
Material Plug contact coating (top layer/selective)	Au (1.27 µm/50 µ")
Material Plug contact coating (intermediate layer)	Ni

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 750 (IEC 60603-7)
Insertion force	< 20 N (IEC 60603-7)
Withdrawal force	< 20 N (IEC 60603-7)

Environmental and real-life conditions

Ambient conditions

Ambient temperature (operation)	-40 °C ... 105 °C
Ambient temperature (storage/transport)	-40 °C ... 105 °C
Degree of protection (plugged in)	IP20 (IEC 60603-7)
Degree of protection (Not plugged in)	IP20 (IEC 60603-7)

Test specification for vibration - sine (IEC 60068-2-6)

Acceleration	200 m/s²
Frequency	20 - 2000 Hz
Amplitude	1 mm
Cycles	10 cycles per axis, 20 sweeps
Sweep speed	1 octave/min

Test specification Shock (IEC 60068-2-27)

Pulse shape	Half-sine
Acceleration	500 m/s²

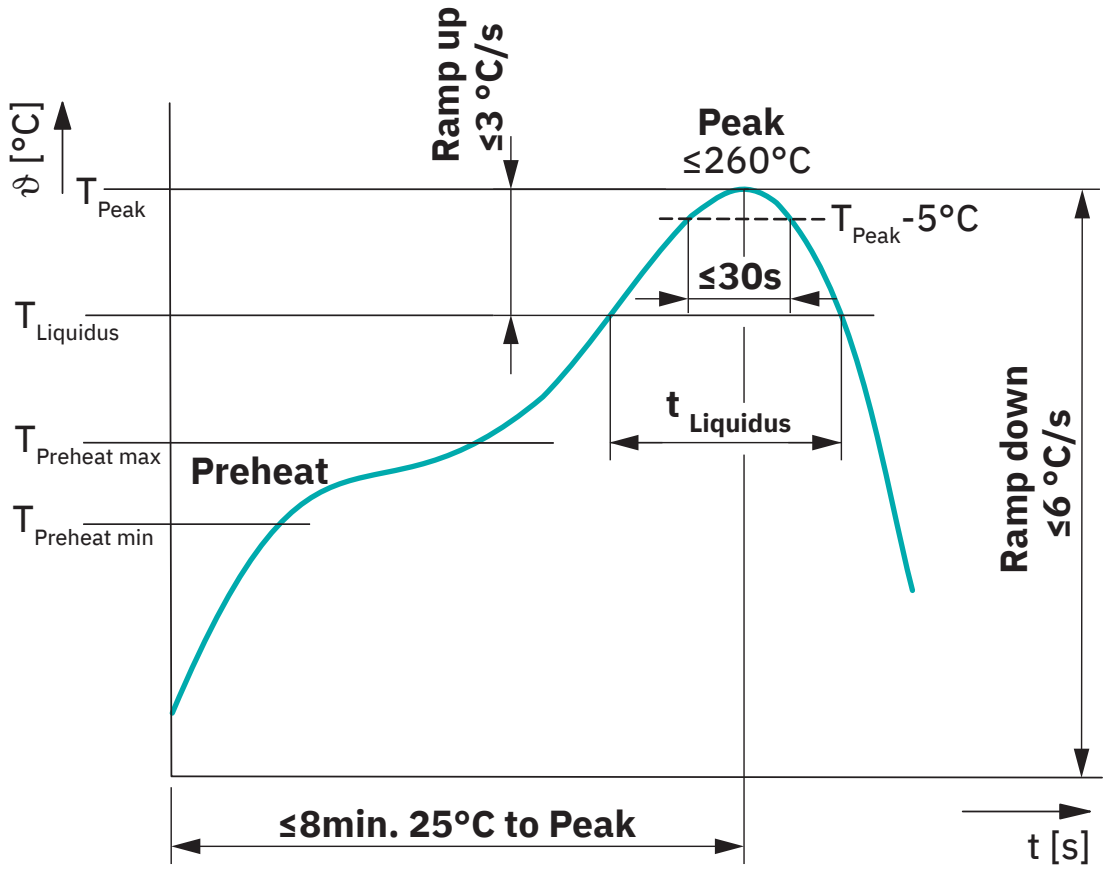
Mounting

Processing notes

Mounting type	THT-THR
Moisture Sensitive Level	MSL 2 (IPC/JEDEC J-STD-020)
Solder cycles in the reflow	3 (IPC/JEDEC J-STD-020)

Drawings

Diagram



Classification reflow soldering profile

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 10.0	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%

EF3.1 Climate Change

CO2e kg	0.466 kg CO2e

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