

CUC-IA1G-J1ST-AB/R4T - Filtered RJ45 PCB connectors



1664103

<https://www.phoenixcontact.com/us/products/1664103>

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Filtered RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab down, Shielded, number of positions: 8, 1 Gbps, THT, THD, Wave, IP20

Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- High mechanical stability when connecting the female connector to the PCB using through-hole technology (THT)
- Tray packing
- Space-saving due to the compact design
- Outstanding EMI performance
- Enables space-saving PCB design while simultaneously reducing the BOM thanks to integrated filters and transformers
- Ideal for demanding industrial applications due to the high shock and vibration resistance as well as the extended temperature range

Commercial data

Item number	1664103
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204867
Weight per piece (including packing)	8.921 g
Weight per piece (excluding packing)	6.3 g
Customs tariff number	85366930
Country of origin	CN

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Technical data

Product properties

Slots	1x1 single-port
Orientation to PCB	90.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking, Tab down
Shielding	Shielded
Processing notes	Wave
Transmission speed	1 Gbps (1000BASE-T)

Electrical properties

Pollution degree	2 (IEC 60664-1)
Overvoltage category	I (IEC 60664-1)
Rated surge voltage	1.5 kV (IEC 60664-1)
Rated current	0.5 A
Insulation resistance	> 500 MΩ (IEC 60603-7)
Test voltage (Contact/shield)	1.5 kV DC (IEC 60603-7)

Dimensions

Length	21.35 mm
Width	15.9 mm
Height	17.13 mm
Installed height	13.63 mm
Data pin length	3.50 mm

Material specifications

Material Contact carrier	LCP
Flame resistance	UL 94 V0
Halogen-free	yes
Material Housing	Copper alloy
Material Housing coating	Ni (0.762 µm min / 30 µ" min)
Material Housing pin coating (top layer/selective)	Sn (3,048 µm min / 120 µ" min)
Material Contact	Phosphor bronze
Material Solder contact coating (intermediate layer)	Ni (1,016 µm min / 40 µ" min)
Material Solder contact coating (top layer/selective)	Sn (3,048 µm min / 120 µ" min)
Material Plug contact coating (top layer/selective)	Au (0.762 µm/30 µ")
Material Plug contact coating (intermediate layer)	Ni (1,270 µm min / 50 µ" min)

Mechanical properties

Mechanical data

Insertion/withdrawal cycles	> 750 (IEC 60603-7)
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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 ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Degree of protection (plugged in)	IP20 (IEC 60603-7)

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

Acceleration	100 m/s ²
Frequency	10 ... 500 Hz
Amplitude	0.35 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	300 m/s ²

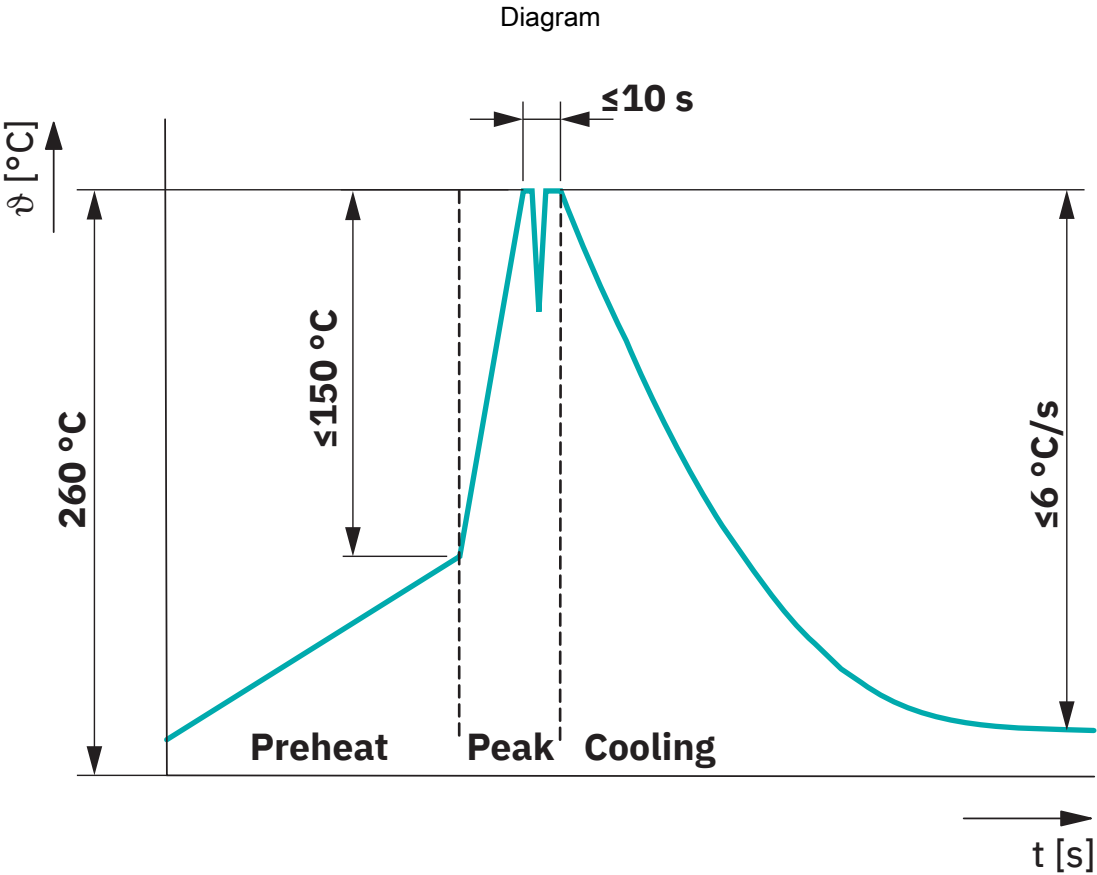
Mounting

Processing notes

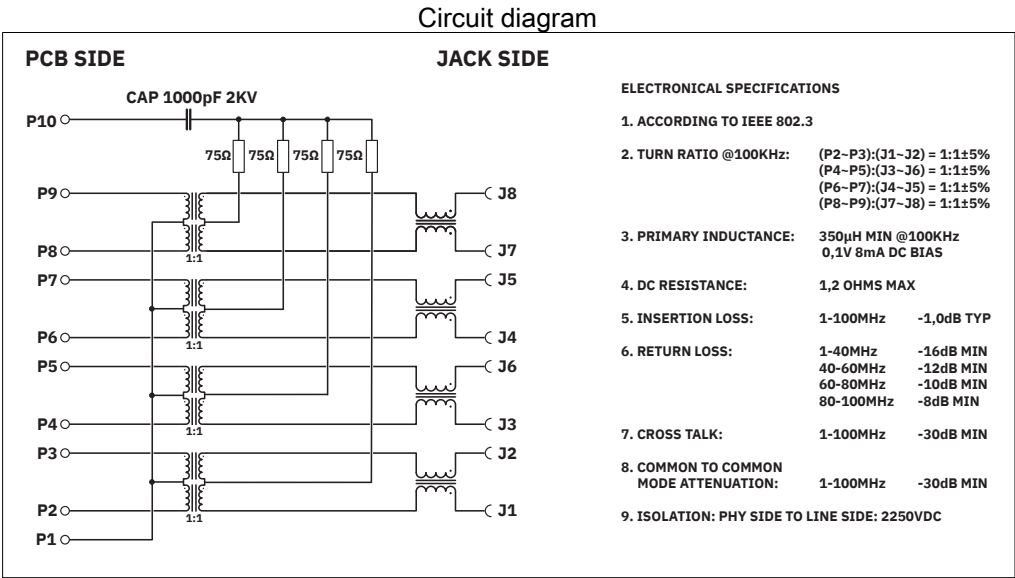
Mounting type	THT
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Drawings



Classification wave soldering profile



Circuit diagram

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Approvals

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cULus Recognized

Approval ID: E140403-20250401

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Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 10.0	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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