

1664012
<https://www.phoenixcontact.com/us/products/1664012>

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Filtered RJ45 PCB connectors, connection direction of the connector to the PCB: 90 °, Tab up, number of positions: 8, 1 Gbps, THT, Wave, type of packaging: Tray

Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- 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	1664012
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923203921
Weight per piece (including packing)	9.03 g
Weight per piece (excluding packing)	6.3 g
Customs tariff number	85366930
Country of origin	CN

CUC-IB2G-J1ST-AT/R4T-L1 - Filtered RJ45 PCB connectors



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Technical data

Product properties

Product type	Data connector (device side)
Orientation to PCB	90.00 °
Type	THD
Number of positions	8 (8P8C)
Type of locking	Snap-in locking Tab up
application range	Wave
Type of packaging	Tray
Transmission speed	1 Gbps (1000BASE-T)

Electrical properties

Rated surge voltage	1.5 kV DC (IEC 60664-1)
Rated current	0.5 A
Test voltage	1.5 kV DC IEC 60603-7 (Contact - shield)
Insulation resistance	> 500 MΩ (IEC 60603-7)
Transmission speed	1 Gbps
Transmission speed	1 Gbps

Connection data

Connection technology

Connection method	Female
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Signaling

Status display present	yes
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Dimensions

Width	15.75 mm
Height	17.4 mm
Length	21.5 mm
Installed height	13.80 mm
Orientation to PCB	90.00 °
Data pin length	3.20 mm

Material specifications

Material	Au (0.762 µm/30 µ")
Material	Ni (1,270 µm min / 50 µ" min)
Material	Sn (3,048 µm min / 120 µ" min)
Material	Ni (1,016 µm min / 40 µ" min)
Material Housing	Ni (0.762 µm min / 30 µ" min)
Material Contact	Phosphor bronze
Material	Sn (3,048 µm min / 120 µ" min)

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Material Contact carrier	LCP (Housing (female/insert))
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Cable/line

Halogen-free	yes
Flame resistance	UL 94 V0

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

Test specification

Specification	IEC 60603-7
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Ambient conditions

Degree of protection (when plugged in)	IP20 (IEC 60603-7)
Degree of protection	IP20 (IEC 60603-7)
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	THT
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Processing notes

Classification temperature T _c	260 °C
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Packaging specifications

Type of packaging	Tray
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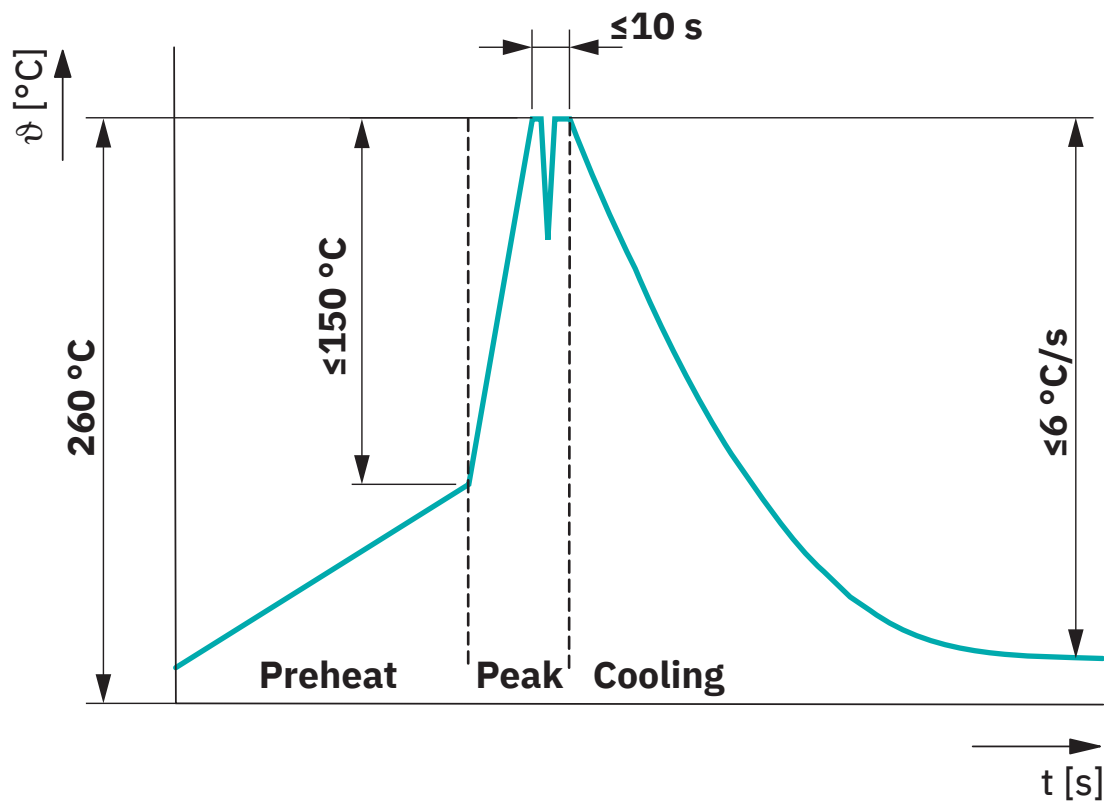
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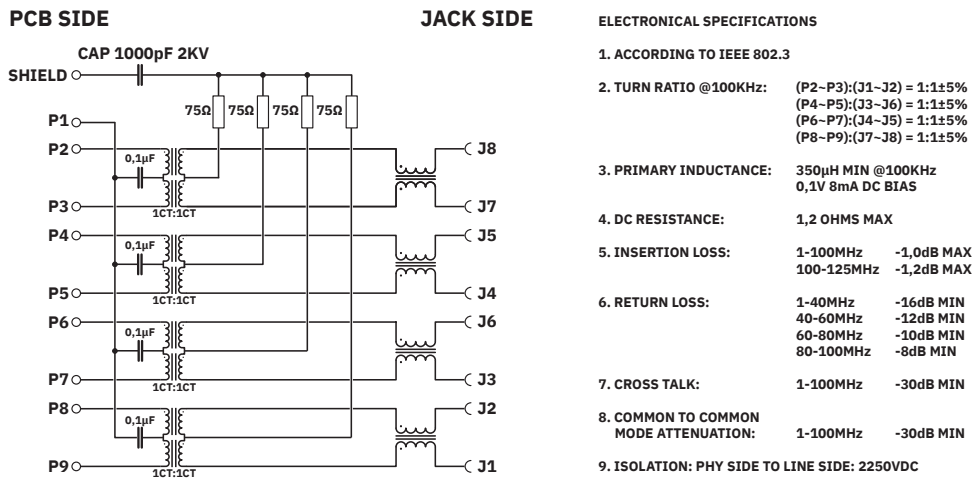
Drawings

Diagram



Classification wave soldering profile

Circuit diagram



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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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