

1664108
<https://www.phoenixcontact.com/us/products/1664108>

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Filtered RJ45 PCB connectors, design: THD, number of positions: 8 (8P8C), 1 Gbps, degree of protection: IP20, connection method: Female, Tray

Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- Tray packing

Commercial data

Item number	1664108
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204881
Weight per piece (including packing)	9.1 g
Weight per piece (excluding packing)	6.3 g
Customs tariff number	85366930
Country of origin	CN

CUC-IA3G-J1ST-AB/R4T-PL1 - Filtered RJ45 PCB connectors



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Technical data

Product properties

Product type	Data connector (device side)
Sensor type	Universal
Number of positions	8
Note number of positions	8P8C
Connection profile	RJ45
Housing shield springs	Yes
Number of slots	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated surge voltage	1.5 kV
Rated current	0.5 A
Insulation resistance	> 500 MΩ
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	15.9 mm
Height	17.13 mm
Length	21.35 mm
Installed height	13.63 mm
Orientation to PCB	90.00 °
Data pin length	3.50 mm

Material specifications

Material Metal surface contact area (top layer)	Au (0.762 µm/30 µ")
Material Metal surface contact area (middle layer)	Ni (1,270 µm min / 50 µ" min)
Material Metal surface soldering area (middle layer)	Ni (1,016 µm min / 40 µ" min)
Material Metal surface soldering area (top layer)	Sn (3,048 µm min / 120 µ" min)
Material	Copper alloy (Housing (shielding))

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	Ni (0.762 µm min / 30 µ" min) (Housing shielding (top layer))
Material Contact	Phosphor bronze
Material	LCP (Housing (female/insert))

Cable/line

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

Specification	IEC 60603-7
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Ambient conditions

Degree of protection (when plugged in)	IP20
Degree of protection	IP20
	IP20
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

Processing notes

Classification temperature T _c	260 °C
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Packaging specifications

Type of packaging	Tray
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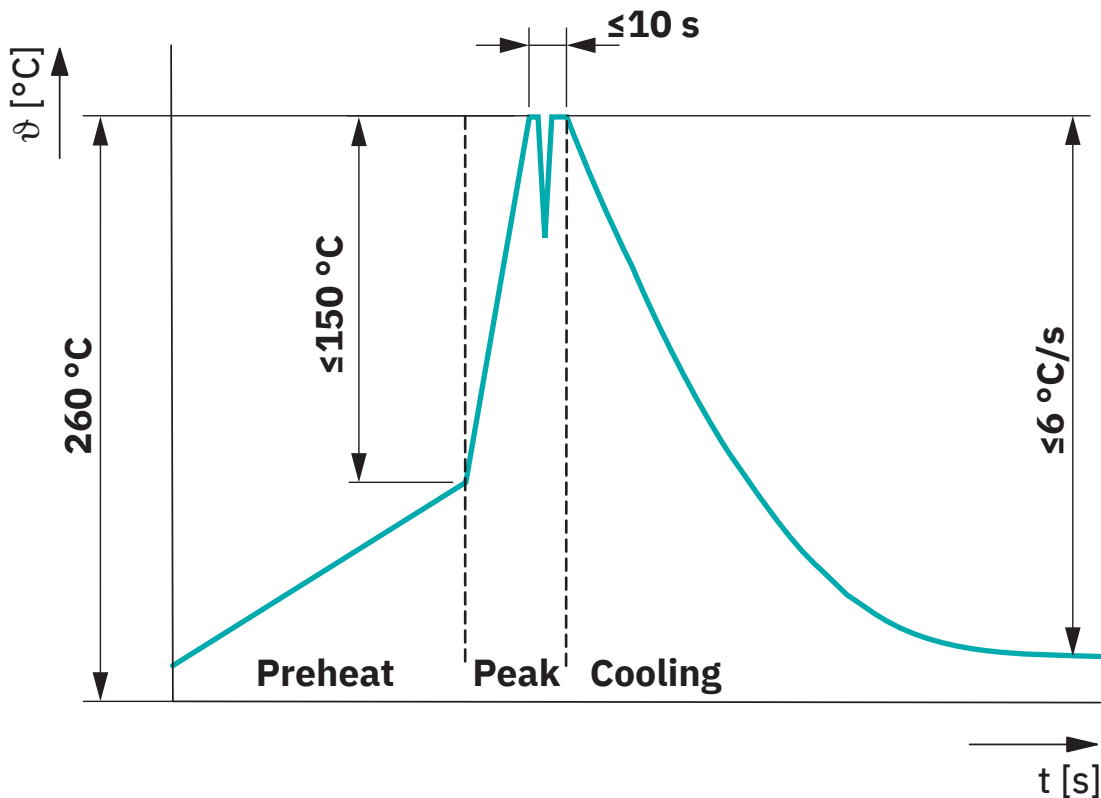
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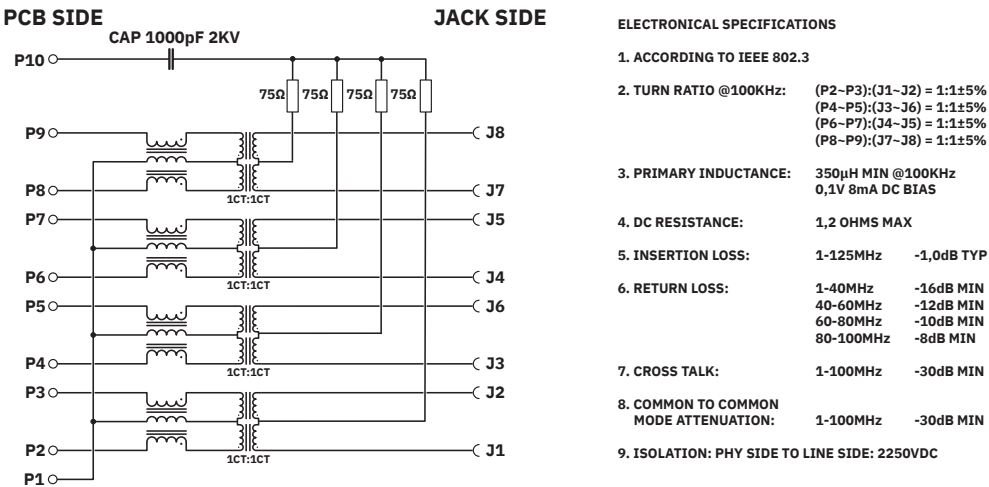
Drawings

Diagram



Classification wave soldering profile

Circuit diagram



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
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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