CUC-IC3M-J1ST-S/R4T - Filtered RJ45 PCB connectors

1663979

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Filtered RJ45 PCB connectors, design: THD, number of positions: 8 (8P8C), 100 Mbps, 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	1663979
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204201
Weight per piece (including packing)	8.7 g
Weight per piece (excluding packing)	6.1 g
Customs tariff number	85366930
Country of origin	CN

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	No
Number of slots	1
Shielded	yes

Insulation characteristics

Overvoltage category	I
Degree of pollution	2

Electrical properties

Rated surge voltage	1.5 kV DC
Rated current	0.5 A
Insulation resistance	> 500 MΩ
Transmission speed	100 Mbps
Transmission speed	10/100 Mbps

Connection data

Connection technology

Connection method	Female

Signaling

Status display present	no

Dimensions

Width	16 mm
Height	19.8 mm
Length	17 mm
Installed height	16.80 mm
Orientation to PCB	180.00 °
Data pin length	3.00 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))

	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

Ambient conditions

Degree of protection (when plugged in)	IP20
Degree of protection	IP20
Ambient temperature (operation)	-40 °C ... 85 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C

Standards and regulations

Flame resistance	UL 94 V0

Mounting

Processing notes

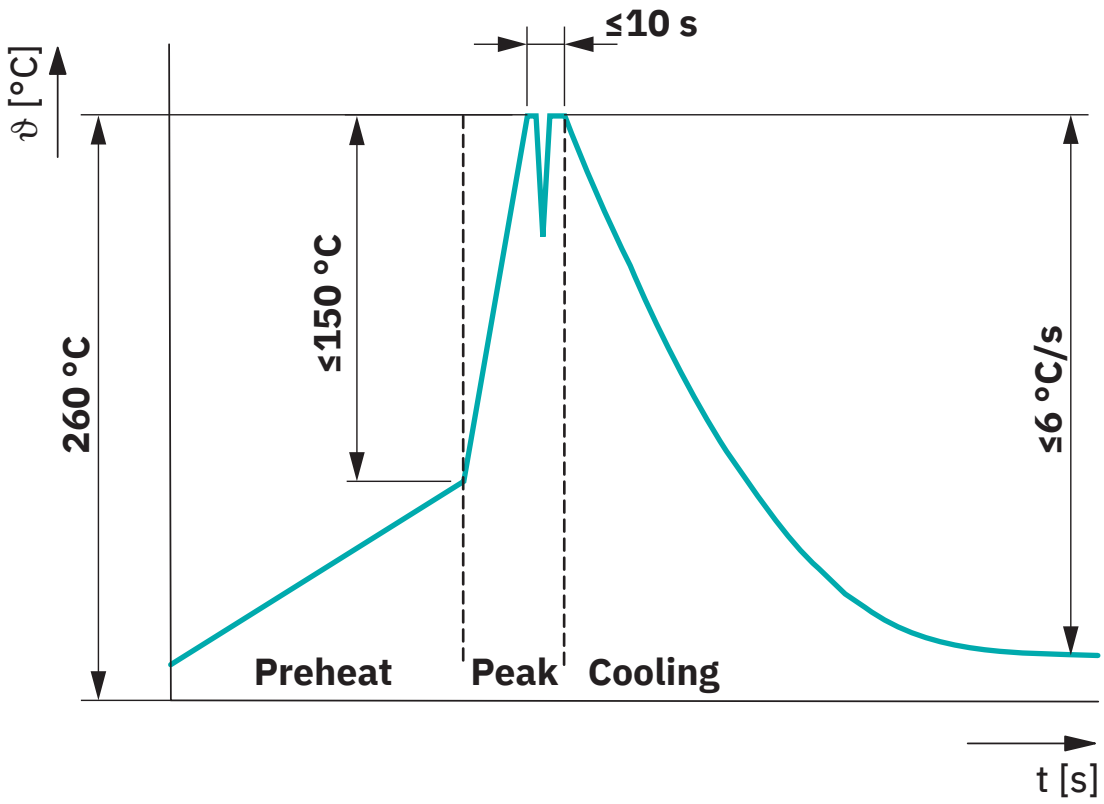
Classification temperature T_c	260 °C

Packaging specifications

Type of packaging	Tray

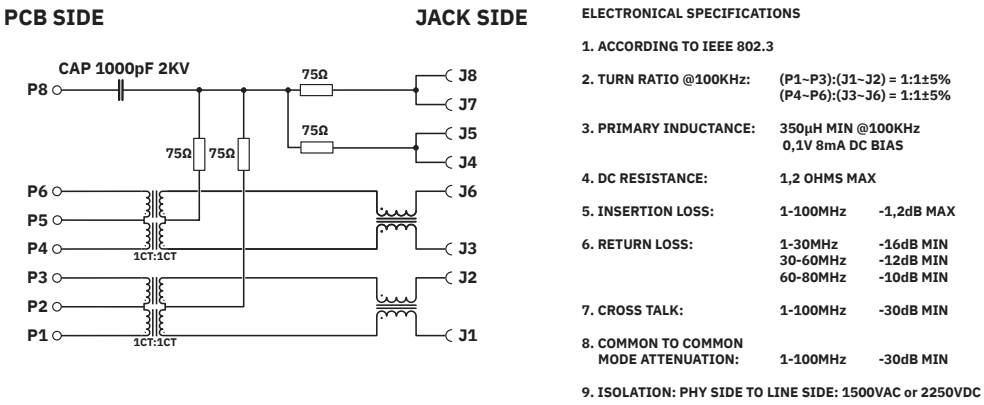
Drawings

Diagram



Classification wave soldering profile

Circuit diagram



Circuit diagram

Classifications

ECLASS

ECLASS-13.0	27460201
ECLASS-15.0	27460201

ETIM

ETIM 9.0	EC002637

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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