

CUC-IC2G-J1ST-S/R4T - RJ45 PCB connector



1664051

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RJ45 PCB connector, number of positions: 8, 1 Gbps, THT wave, degree of protection: IP20, Tray

Your advantages

- Simplified Ethernet design process thanks to integrated filtering
- Reduced PCB complexity and reduced EMC risks
- Automated processing thanks to reflow solderability
- Ideal version for any application thanks to wide range of products
- Equipped for demanding areas of application thanks to industrial design

Commercial data

Item number	1664051
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204331
Weight per piece (including packing)	8.845 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

Product type	Data connector (device side)
Number of positions	8
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
Rated current	0.5 A
Insulation resistance	> 500 MΩ
Transmission speed	1 Gbps
Transmission speed	1 Gbps

Signaling

Status display present	no
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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

Halogen-free	yes
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Flame resistance	UL 94 V0
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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
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 wave
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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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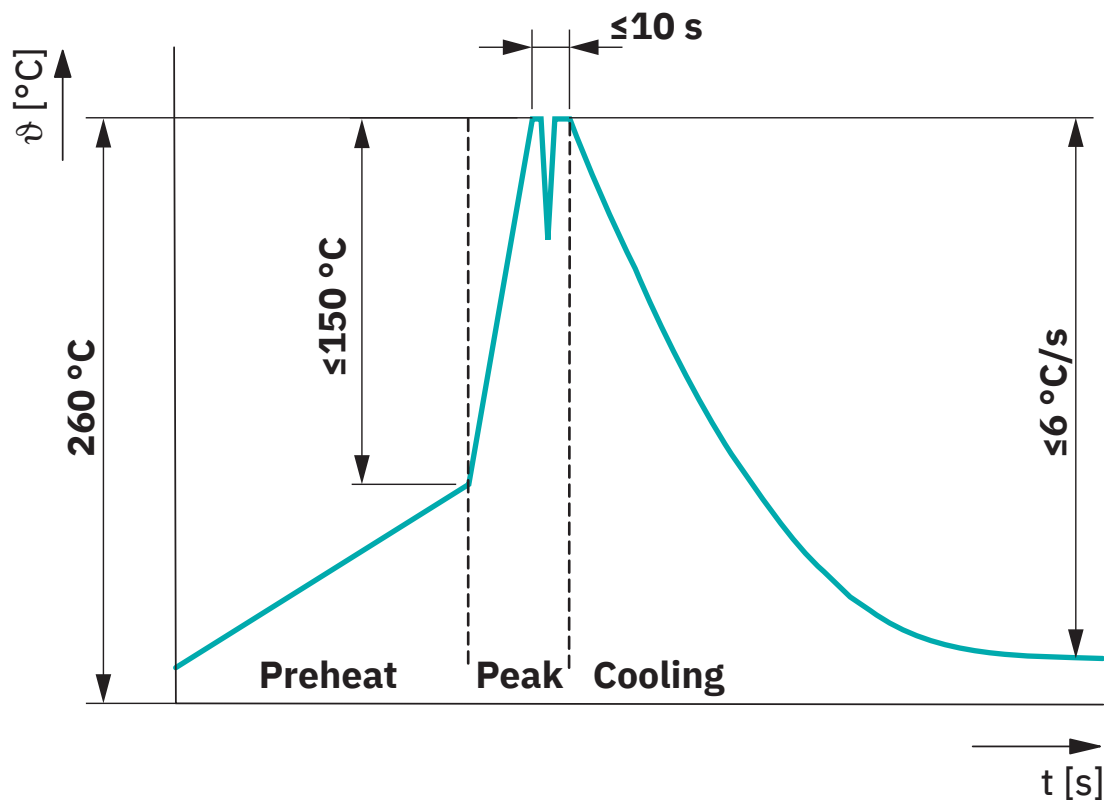
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Drawings

Diagram

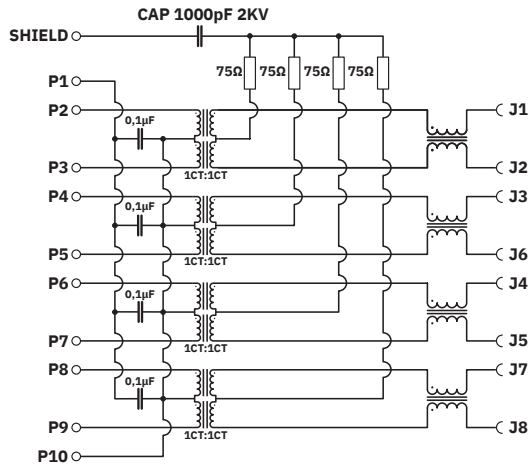


Classification wave soldering profile

Circuit diagram

PCB SIDE

JACK SIDE



ELECTRONICAL SPECIFICATIONS

1. ACCORDING TO IEEE 802.3
2. TURN RATIO @100KHz: (P2-P3):(J1-J2) = 1:1±5%
(P4-P5):(J3-J6) = 1:1±5%
(P6-P7):(J4-J5) = 1:1±5%
(P8-P9):(J7-J8) = 1:1±5%
3. PRIMARY INDUCTANCE: 350μH MIN @100KHz, 0.1V
8mA DC BIAS
4. DC RESISTANCE 1.2 OHMS MAX
5. INSERTION LOSS: 1-100MHz -1.0dB MAX
100-125MHz -1.2dB MAX
6. RETURN LOSS: 1-40MHz -16dB MIN
40-60MHz -12dB MIN
60-80MHz -10dB MIN
80-100MHz -8dB MIN
7. CROSS TALK: 1-100MHz -30dB MIN
8. COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN
9. ISOLATION: PHY SIDE TO LINE SIDE: 2250VDC

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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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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