

# CUC-IA5M-J1ST-AB/R4T-PL1 - Filtered RJ45 PCB connectors



1664077  
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Filtered RJ45 PCB connectors, 1x1 single-port, connection direction of the connector to the PCB: 90 °, Tab down, Shielded, shield springs, LED (green, yellow), number of positions: 8, 10/100 Mbps, 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	1664077
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204713
Weight per piece (including packing)	8.6 g
Weight per piece (excluding packing)	6.1 g
Customs tariff number	85366930
Country of origin	CN

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## Technical data

### Product properties

Product type	Data connector (device side)
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, shield springs
Status display	LED (green, yellow)
application range	Wave
Type of packaging	Tray
Transmission speed	10/100 Mbps (100BASE-TX)

### Electrical properties

Rated surge voltage	1.5 kV (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	100 Mbps
Transmission speed	10/100 Mbps

### Connection data

#### Connection technology

Connection method	Female
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### Signaling

Status display	LED (green, yellow)
Status display present	yes

### 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 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)
Material Solder contact coating (top layer/selective)	Sn (3,048 µm min / 120 µ" min)

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Material Solder contact coating (intermediate layer)	Ni (1,016 µm min / 40 µ" min)
Material Housing	Ni (0.762 µm min / 30 µ" min)
Material Contact	Phosphor bronze
Material Housing pin coating (top layer/selective)	Sn (3,048 µm min / 120 µ" min)
Material Contact carrier	LCP (Housing (female/insert))

## Cable/line

Shielding	Shielded, shield springs
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)
	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
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### Processing notes

Classification temperature T <sub>c</sub>	260 °C
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## Packaging specifications

Type of packaging	Tray
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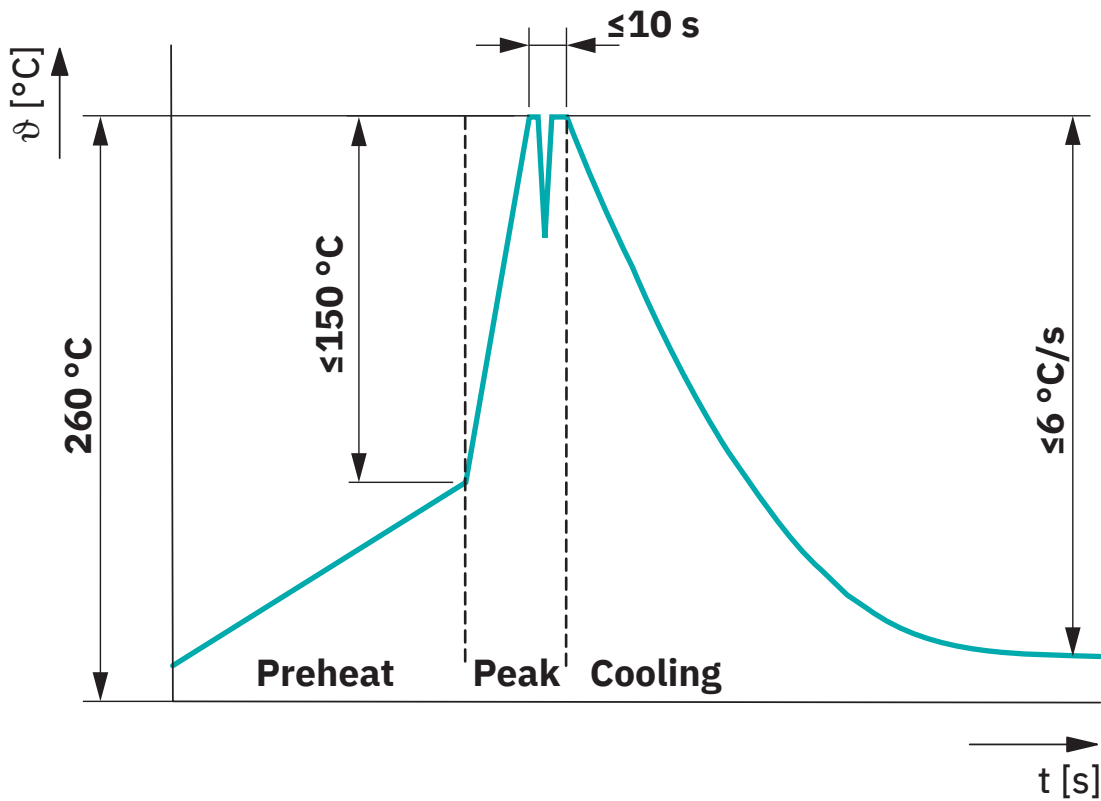
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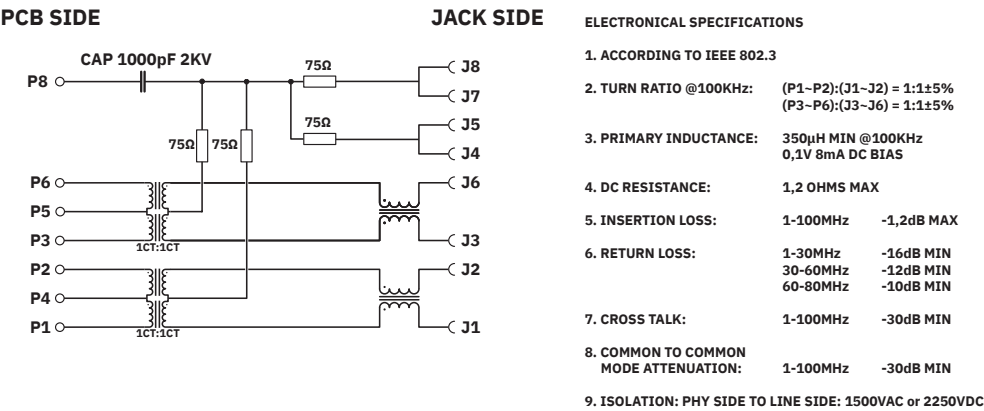
Drawings

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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