

1664014

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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	1664014
Packing unit	50 pc
Minimum order quantity	50 pc
Sales key	AB12
Product key	ABNAFA
GTIN	4067923204263
Weight per piece (including packing)	9.13 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)
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	1 Gbps
Transmission speed	1 Gbps

Connection data

Connection technology Connection method

Signaling	
Status display present	yes

Female

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 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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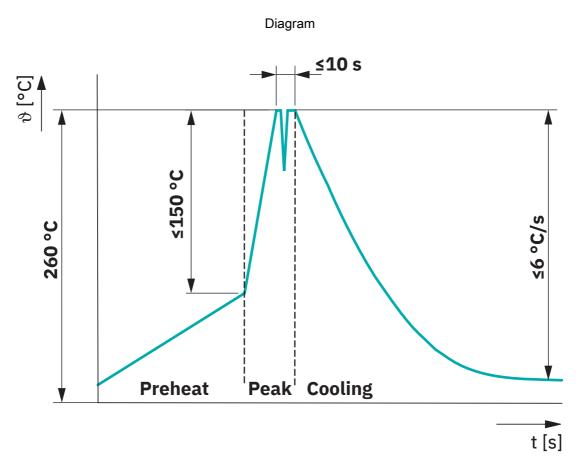
	Ni (0.762 μm min / 30 μ" min) (Housing shielding (top layer))
Material Contact	Phosphor bronze
Material	LCP (Housing (female/insert))
ble/line	
Test voltage Core/Shield	1.50 kV DC
Halogen-free	yes
Flame resistance	UL 94 V0
echanical properties	
Mechanical data	
Insertion/withdrawal cycles	> 750
Insertion force	< 20 N
Withdrawal force	< 20 N
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
andards and regulations	
Flame resistance	UL 94 V0
punting	
Processing notes	
Classification temperature T _c	260 °C
	260 °C
Classification temperature T _c ackaging specifications Type of packaging	260 °C



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Drawings



Classification wave soldering profile

Circuit diagram **PCB SIDE JACK SIDE ELECTRONICAL SPECIFICATIONS CAP 1000pF 2KV** 1. ACCORDING TO IEEE 802.3 SHIELD O-(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% 2. TURN RATIO @100KHz: **P1**0 **√** J1 350μH MIN @100KHz 0,1V 8mA DC BIAS 3. PRIMARY INDUCTANCE: **√** J2 1,2 OHMS MAX 4. DC RESISTANCE: **-**⟨ **J**3 1-100MHz 100-125MHz -1,0dB MAX -1,2dB MAX 5. INSERTION LOSS: **P5**0 -(**J**6 -16dB MIN -12dB MIN -10dB MIN -8dB MIN 6. RETURN LOSS: 1-40MHz **P6**0 -(**J**4 40-60MHz 60-80MHz 80-100MHz -(**J**5 7. CROSS TALK: 1-100MHz -30dB MIN **-**⟨ **J7** 8. COMMON TO COMMON MODE ATTENUATION: 1-100MHz -30dB MIN **-**⟨ **J8** 9. ISOLATION: PHY SIDE TO LINE SIDE: 2250VDC



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Classifications

ECLASS

	ECLASS-13.0	27460201
	ECLASS-15.0	27460201
ETIM		
	ETIM 9.0	EC002637
UI	NSPSC	
•		
	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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