

1664037

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

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 | 1664037 |
|--------------------------------------|---------------|
| Packing unit | 50 pc |
| Minimum order quantity | 50 pc |
| Sales key | AB12 |
| Product key | ABNAFA |
| GTIN | 4067923203730 |
| Weight per piece (including packing) | 8.81 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 | Yes |
| Number of slots | 1 |
| Shielded | yes |
| Insulation characteristics | |
| Overvoltage category | |
| O TO TO Rago catogory | |

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 |
|------------------------|----|
| | |

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)) |
| | 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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Mechanical properties

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|-------|----------------|------------|
| iviec | hanica | ı 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 |

Mounting

| Mounting type | THT wave |
|---|----------|
| Processing notes | |
| Classification temperature T _c | 260 °C |

Packaging specifications

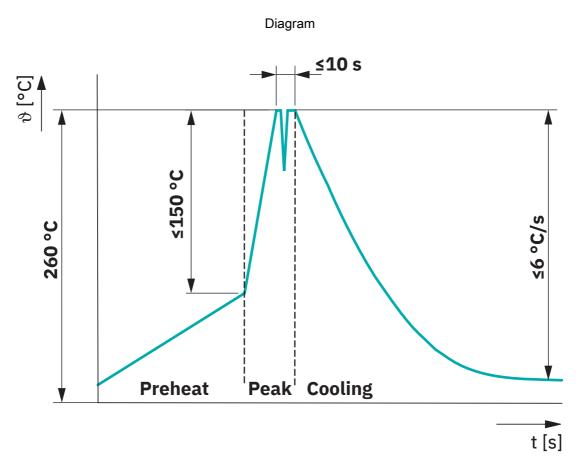
| Type of packaging | Tray |
|-------------------|------|
|-------------------|------|



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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** 0,01µF 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 |
| UNSPSC | | |
| | UNSPSC 21.0 | 39121400 |



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Environmental product compliance

EU RoHS

| Yes, No exemptions | | | |
|--|--|--|--|
| China RoHS | | | |
| EFUP-E | | | |
| No hazardous substances above the limits | | | |
| EU REACH SVHC | | | |
| No substance above 0.1 wt% | | | |
| | | | |

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