# 2301994-1 ✔ ACTIVE

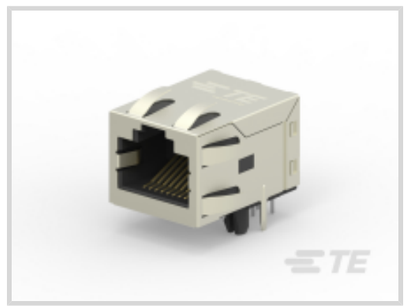
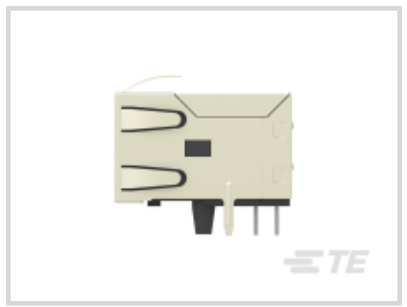
## Industrial RJ45 Mag Jack

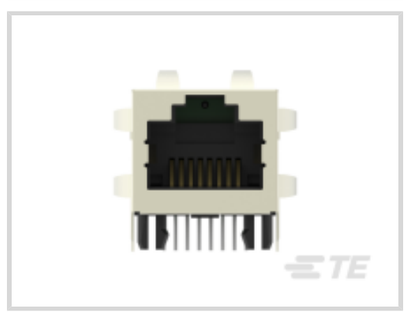
TE Internal #: 2301994-1

Industrial RJ45 Mag Jack, RJ45 Connectors, RJ45 with Integrated Magnetics, Single Port, Port Matrix Configuration 1 x 1, RJ Type Jacks & Plugs

View on TE.com >

Connectors > Modular Jacks & Plugs > RJ45 Connectors

Modular Jack & Plug Interface Type: **RJ45 with Integrated Magnetics**

Port Configuration: **Single Port**

Port Matrix Configuration: **1 x 1**

Modular Jacks & Plugs Products: **RJ Type Jacks & Plugs**

Connector Contact Density: **Standard**

## Features

### Product Type Features

| | |
|---|---|
| Connectors & Connector Components Type | Connector |
| Modular Jack & Plug Interface Type | RJ45 with Integrated Magnetics |
| Modular Jacks & Plugs Products | RJ Type Jacks & Plugs |
| Modular Connector Style | Jack |
| Grounding Options | PCB and Panel Ground |
| Sealable | No |
| Connector & Contact Terminates To | Printed Circuit Board |

### Configuration Features

| | |
|---|---|
| Panel Ground Location | Top and Side |
| Number of PCB Ground Tabs | 2 |
| Number of Panel Ground Tabs | 6 |
| Port Configuration | Single Port |
| Port Matrix Configuration | 1 x 1 |
| Connector Contact Density | Standard |

| | |
|---|---|
| Status Indicator Type | None |
| Number of Positions | 8 |
| Number of Loaded Positions | 8 |
| PCB Mount Orientation | Right Angle |

## Signal Characteristics

| | |
|---|---|
| Data Rate | 10 Mb/s, 100 Mb/s |

## Body Features

| | |
|---|---|
| Insulator Material | LCP |
| Shield Plating Finish | Matte |
| PCB Ground Tab Location | 3.05 mm[.12 in] |
| Shield Plating Material | Nickel |
| Shield Material | Brass |
| Modular Jack Latch Orientation | Inverted - Latch Up |
| Connector Profile | Standard |
| LED Color (Bottom Left) | None |
| LED Color (Bottom Right) | None |
| LED Color (Top Left) | None |
| LED Color (Top Right) | None |

## Contact Features

| | |
|---|---|
| PCB Termination Area Plating Finish | Matte |
| Contact Underplating Material | Nickel |
| PCB Contact Termination Area Plating Material | Tin |
| Contact Mating Area Plating Material | Gold over Nickel |
| Contact Base Material | Copper Alloy |
| Contact Mating Area Plating Material Thickness | .76 µm[30 µin] |

## Termination Features

| | |
|---|---|
| Termination Method to Printed Circuit Board | Through Hole - Solder |

## Mechanical Attachment

| | |
|---|---|
| Boardlock Material | LCP |
| PCB Mount Retention Type | Boardlock |

## Housing Features

| | |
|---|---|
| Mating Entry Location | Side |

| | |
|---|---|
| Housing Color | Black |
| Housing Material | LCP (Liquid Crystal Polymer) |

## Dimensions

| | |
|---|---|
| Connector Height | 13.8 mm[.543 in] |

## Usage Conditions

| | |
|---|---|
| Housing Material Temperature | 260 |
| Operating Temperature Range | -40 – 85 °C[-40 – 185 °F][-40 – 185 °F] |

## Operation/Application

| | |
|---|---|
| Shielded | Yes |

## Industry Standards

| | |
|---|---|
| UL Flammability Rating | UL 94V-0 |
| Performance Category | Cat 5 |

## Packaging Features

| | |
|---|---|
| Packaging Reel Diameter | 33 cm |
| Packaging Quantity | 80 |
| Packaging Method | Reel |

## Other

| | |
|---|---|
| Shield Panel Ground Type | Shield has bottom panel grounds. |

# Product Compliance

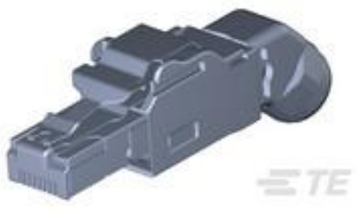
For compliance documentation, visit the product page on TE.com>

| | |
|---|---|
| EU RoHS Directive 2011/65/EU | Compliant |
| EU ELV Directive 2000/53/EC | Compliant |
| China RoHS 2 Directive MIIT Order No 32, 2016 | No Restricted Materials Above Threshold |
| EU REACH Regulation (EC) No. 1907/2006 | Current ECHA Candidate List: JAN 2021 (211)<br>Candidate List Declared Against: JUN 2020 (209)<br>SVHC > Threshold:<br>Not Yet Reviewed |
| Halogen Content | Low Bromine/Chlorine - Br and Cl < 900 ppm per homogenous material. Also BFR /CFR/PVC Free |
| Solder Process Capability | Reflow solder capable to 260°C |

Product Compliance Disclaimer

This information is provided based on reasonable inquiry of our suppliers and represents our current actual knowledge based on the information they provided. This information is subject to change. The part numbers that TE has identified as EU RoHS compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, mercury, PBB, PBDE, DBP, BBP, DEHP, DIBP, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2011/65/EU (RoHS2). Finished electrical and electronic equipment products will be CE marked as required by Directive 2011/65/EU. Components may not be CE marked. Additionally, the part numbers that TE has identified as EU ELV compliant have a maximum concentration of 0.1% by weight in homogenous materials for lead, hexavalent chromium, and mercury, and 0.01% for cadmium, or qualify for an exemption to these limits as defined in the Annexes of Directive 2000/53/EC (ELV). Regarding the REACH Regulation, the information TE provides on SVHC in articles for this part number is based on the latest European Chemicals Agency (ECHA) 'Guidance on requirements for substances in articles' posted at this URL: https://echa.europa.eu/guidance-documents/guidance-on-reach

## Compatible Parts



TE Part # 1987236-1
RJ45 CONNECTOR IP20 45 DEG., INDUSTRIAL

## Also in the Series | Industrial RJ45 Mag Jack



RJ45 Connectors(105)

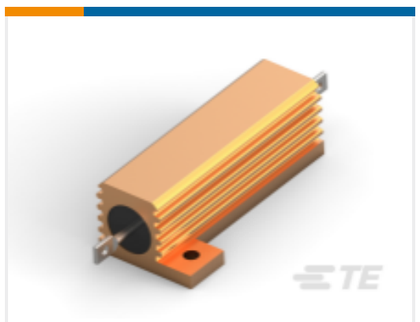
## Customers Also Bought



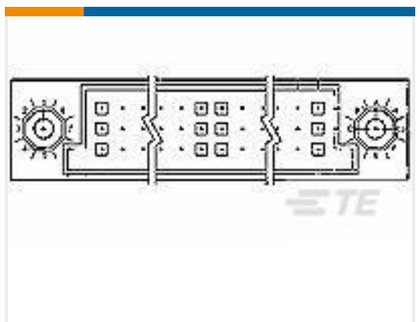
TE Part #1367073-2
SFP Connectors



TE Part #1625827-8
Metal Chip Resistor: Current Sense



TE Part #9-1625966-8
Power Resistors: Aluminum Housed, HSA



TE Part #1-532433-1
HDI PIN ASSY 3 ROW 210 POS



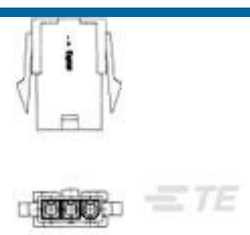
TE Part #1623537-1
CRG1206 1% 56R



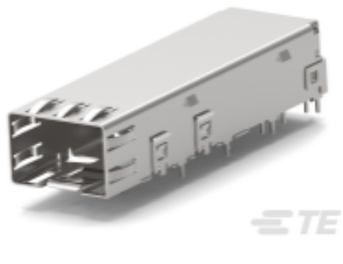
TE Part #1622272-1
LR0204 1% 6K2



TE Part #1624006-2
SC30-10-2539-10 150UH AMMO 1000



TE Part #1586023-4
4P S/R PM PLUG VAL-U-LOK V0



TE Part #1-2227303-2
CAGE ASSEMBLY, SFP, .071 TAIL



TE Part #1367147-3
SFP COVER, UNPL, NO LOGO

## Documents

### Product Drawings

RJ45 JACK INT.MAG. 10/100 1X1 INV.

English

### CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_2301994-1_B.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_2301994-1_B.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_2301994-1_B.3d_stp.zip

English

By downloading the CAD file I accept and agree to the Terms and Conditions of use.

### Datasheets & Catalog Pages

1-1773921-5_RJ45_Integrated_Magnetics_0617

English

### Product Specifications

Application Specification

English