



TE Internal #: 2488953-1
 RJ45 Connector, Single Port, 1 x 1, Standard Connector Contact Density, Jack, Shielded, Cat 5, 8 Position, Standard Profile, Through Hole - Solder

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Connectors > Modular Jacks & Plugs > RJ45 Connectors



Modular Jack & Plug Interface Type: **RJ45**
 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

Ground Feature Type	Ground Return Shielding
Connector Product Type	Connector Assembly
Modular Jack & Plug Interface Type	RJ45
Modular Jacks & Plugs Products	RJ Type Jacks & Plugs
Modular Connector Style	Jack
Grounding Options	PCB and Panel Ground
Connector & Contact Terminates To	Printed Circuit Board

Configuration Features

Number of Panel Ground Tabs	0
Number of PCB Ground Tabs	2
Port Configuration	Single Port
Port Matrix Configuration	1 x 1
Connector Contact Density	Standard
Number of Positions	8
Number of Loaded Positions	8



PCB Mount Orientation	Vertical
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Signal Characteristics

Data Rate	100 Mb/s
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Body Features

LED Color (Top Left)	Green
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PCB Retention Feature Material	Plastic
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LED Color (Top Right)	Yellow
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Insulator Material	Glass-Filled Polyamide Nylon
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Shield Plating Finish	Matte
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PCB Ground Tab Location	3.89 mm[0.153 in]
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LED Color (Bottom Left)	None
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LED Color (Bottom Right)	None
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Grounding Tab Plating Material	Tin over Nickel
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Shield Plating Material	Nickel
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Shield Material	Brass
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Connector Profile	Standard
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Contact Features

PCB Contact Termination Area Plating Material Finish	Bright
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Contact Underplating Material	Nickel
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PCB Contact Termination Area Plating Material	Tin over Nickel
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Contact Current Rating (Max)	.1 A
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Contact Mating Area Plating Material	Gold
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Contact Base Material	Phosphor Bronze
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Contact Mating Area Plating Material Thickness	1.27 μ m[50 μ in]
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Termination Features

Termination Method to PCB	Through Hole - Solder
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Termination Post & Tail Length	3.25 mm[.128 in]
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Mechanical Attachment

Panel Mount Feature	With
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Panel Mount Feature Type	Mounting Hole
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PCB Mount Retention Type	Locating Post
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Connector Mounting Type	Panel Mount & Board Mount
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Housing Features

Mating Entry Location	Top
Centerline (Pitch)	1.27 mm[.05 in]
Housing Color	Black
Housing Material	PA 46

Dimensions

PCB Thickness (Recommended)	2 mm[.08 in]
Connector Height	16.9 mm[.665 in]

Usage Conditions

Operating Temperature Range	0 – 70 °C[32 – 158 °F]
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Operation/Application

Indicator Type	LED
Shielded	Yes
Circuit Application	Signal

Industry Standards

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

Packaging Features

Packaging Quantity	1320
Packaging Method	Tray/Box

Product Compliance

[For compliance documentation, visit the product page on TE.com>](#)

EU RoHS Directive 2011/65/EU	Compliant with Exemptions
EU ELV Directive 2000/53/EC	Not Yet Reviewed
China RoHS 2 Directive MIIT Order No 32, 2016	Restricted Materials Above Threshold
EU REACH Regulation (EC) No. 1907/2006	Current ECHA Candidate List: JUNE 2024 (241) Candidate List Declared Against: JUNE 2024 (241) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
Solder Process Capability	Not reviewed for solder process capability



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 Regulations, TE's information on SVHC in articles for this part number is still based on the European Chemical Agency (ECHA) 'Guidance on requirements for substances in articles' (Version: 2, April 2011), applying the 0.1% weight on weight concentration threshold at the finished product level. TE is aware of the European Court of Justice ruling of September 10th, 2015 also known as O5A (Once An Article Always An Article) stating that, in case of 'complex object', the threshold for a SVHC must be applied to both the product as a whole and simultaneously to each of the articles forming part of its composition. TE has evaluated this ruling based on the new ECHA "Guidance on requirements for substances in articles" (June 2017, version 4.0) and will be updating its statements accordingly.

Documents

Product Drawings

[RJ45 W/MGNT 1X1 100BASE-T LED PLTNG T 50](#)

English

CAD Files

[3D PDF](#)

3D

Customer View Model

[ENG_CVM_CVM_2488953-1_1.3d_igs.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2488953-1_1.2d_dxf.zip](#)

English

Customer View Model

[ENG_CVM_CVM_2488953-1_1.3d_stp.zip](#)

English

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Product Specifications

[Application Specification](#)

English