

# TSC-105D3H,000 ✓ ACTIVE

OEG | OEG Signal PCB Relay TSC

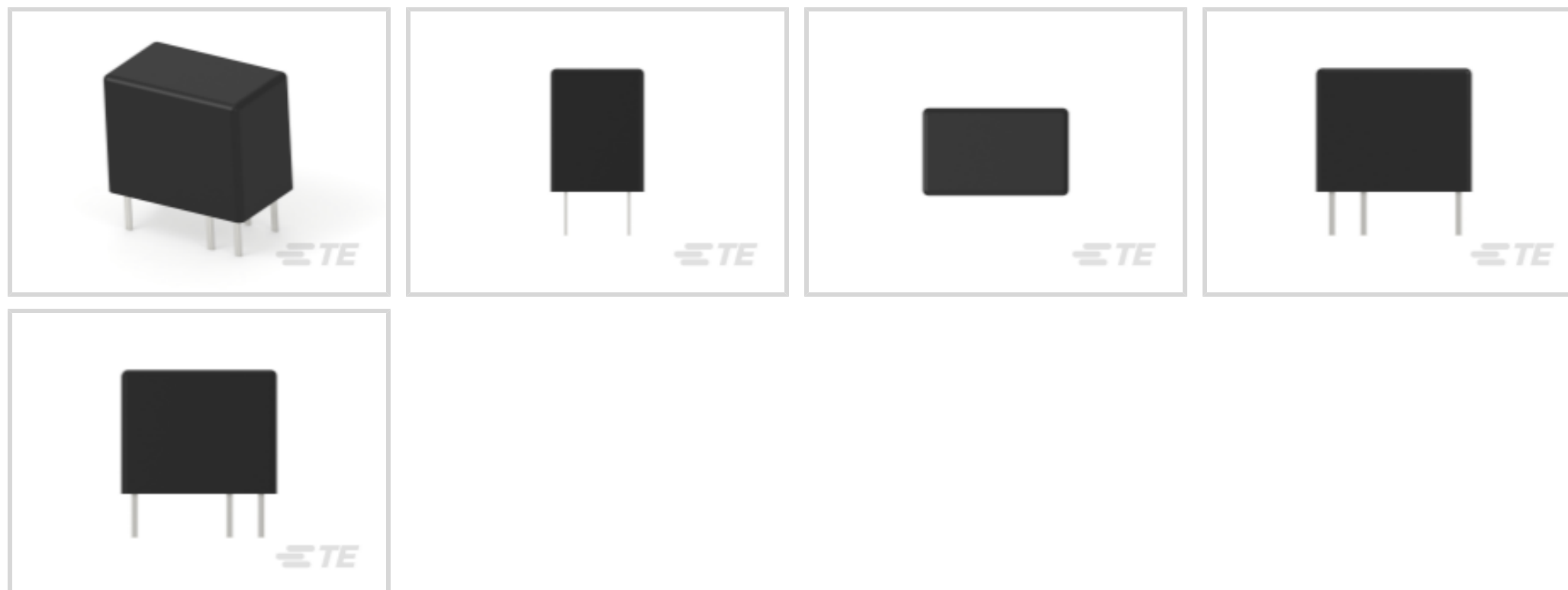
TE Internal #: 1-1419130-0

Signal Relays, 24 VDC Contact Voltage, 120 VAC Contact Voltage,  
300 mW Coil Power (DC), Printed Circuit Board, PCB-THT, OEG  
Signal PCB Relay TSC

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Relays, Contactors & Switches > Relays > Signal Relays



Contact Voltage Rating: **24 VDC**

Signal Relay Coil Power Rating (DC): **300 mW**

Isolation (HF Parameter): **-20.7dB @ 900MHz, -39dB @ 100MHz**

Insertion Loss (HF Parameter): **-.02dB @ 100MHz, -.27dB @ 900MHz**

## Features

### Product Type Features

Relay Type	Signal PCB Relay TSC
Relay Style	TSC Signal Relay
Product Type	Relay

### Electrical Characteristics

Coil Power Rating Class	200 – 300 mW
Actuating System	AC/DC
Insulation Initial Dielectric Between Open Contacts	400 Vrms
Contact Limiting Short-Time Current	1 A
Insulation Initial Dielectric Between Contacts and Coil	1000 Vrms
Insulation Creepage Class	0 – 1.5 mm
Insulation Initial Dielectric Between Coil/Contact Class	500 – 1000 V
Power Consumption	300 mW
Insulation Initial Resistance	1000000 MΩ
Contact Limiting Making Current	1 A
Coil Resistance	83 Ω



Contact Limiting Continuous Current	1 A
Insulation Creepage Between Contact and Coil	1.5 mm[.059 in]
Coil Type	Monostable
Contact Limiting Breaking Current	1 A
Contact Switching Load (Min)	1mA @ 1V
Contact Voltage Rating	24 VDC
Signal Relay Coil Power Rating (DC)	300 mW
Signal Relay Coil Voltage Rating	5 VDC
Signal Relay Contact Switching Voltage (Max)	30 VDC
Signal Relay Coil Magnetic System	Monostable, AC/DC

### Signal Characteristics

Isolation (HF Parameter)	-20.7dB @ 900MHz, -39dB @ 100MHz
Insertion Loss (HF Parameter)	-.02dB @ 100MHz, -.27dB @ 900MHz

### Body Features

Insulation Special Features	1500V Initial Surge Withstand Voltage between Contacts & Coil
Weight	3 g[.1058 oz]

### Contact Features

Contact Plating Material	AgNi Alloy
Contact Current Class	0 – 2 A
Signal Relay Terminal Type	PCB-THT
Signal Relay Contact Current Rating	1 A
Signal Relay Contact Arrangement	1 Form C (CO)
Contact Material	Nickel-Titanium Alloy
Contact Number of Poles	1

### Termination Features

Termination Type	Through Hole
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### Mechanical Attachment

Signal Relay Mounting Type	Printed Circuit Board
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### Dimensions

Width Class (Mechanical)	6 – 8 mm
Width	7.5 mm[.29 in]

Height	9.9 mm[.39 in]
Length Class (Mechanical)	12 – 14 mm
Insulation Clearance Between Contact and Coil	2 mm[.079 in]
Height Class (Mechanical)	9 – 10 mm
Length	12.5 mm[.492 in]
Insulation Clearance Class	0 – 2.5 mm

### Usage Conditions

Environmental Ambient Temperature (Max)	80 °C[176 °F]
Environmental Ambient Temperature Class	70 – 85°C
Operating Temperature Range	-30 – 80 °C

### Operation/Application

Performance Type	Standard
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### Packaging Features

Packaging Method	Box & Tube
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### 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: JUNE 2022 (224) Candidate List Declared Against: JAN 2021 (211) Does not contain REACH SVHC
Halogen Content	Not Yet Reviewed for halogen content
Solder Process Capability	Wave solder capable to 265°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



## Also in the Series | OEG Signal PCB Relay TSC



## Documents

### CAD Files

3D PDF

3D

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1419130-0\\_D1.2d\\_dxf.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1419130-0\\_D1.3d\\_igs.zip](#)

English

Customer View Model

[ENG\\_CVM\\_CVM\\_1-1419130-0\\_D1.3d\\_stp.zip](#)

English

By downloading the CAD file I accept and agree to the [Terms and Conditions](#) of use.

### Datasheets & Catalog Pages

[TSC Series Relay Data Sheet -English](#)

English

### Product Specifications

[Definitions, Handling, Processing, Testing and Use of Relays](#)

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English