T81N5D312-12 ✓ ACTIVE

Potter & Brumfield | Potter & Brumfield T81

TE Internal #: 7-1393779-1

Signal Relays, 24 VDC Contact Voltage, 120 VAC Contact Voltage, 450 mW Coil Power (DC), Printed Circuit Board, PCB-THT, Potter &

Brumfield T81

View on TE.com >

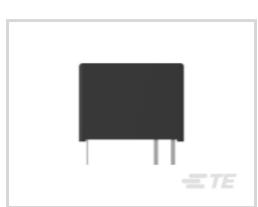


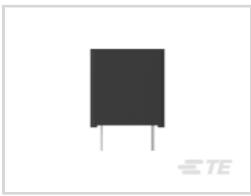
Relays, Contactors & Switches > Relays > Signal Relays > P&B T81 SERIES SIGNAL RELAYS











Contact Voltage Rating: 24 VDC

Signal Relay Coil Power Rating (DC): 450 mW

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

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

All P&B T81 SERIES SIGNAL RELAYS (6)

Features

Product Type Features

Relay Type	T81 Series Signal PCB Relay
Relay Style	T81 Signal Relay
Product Type	Relay

Flectrical Characteristics

Electrical Characteristics	
Coil Power Rating Class	400 – 500 mW
Actuating System	AC/DC
Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Short-Time Current	1 A
Insulation Initial Dielectric Between Contacts and Coil	1000 Vrms
Insulation Creepage Class	1.5 – 3 mm
Insulation Initial Dielectric Between Coil/Contact Class	500 – 1000 V
Power Consumption	450 mW
Insulation Initial Resistance	1000 ΜΩ



Contact Limiting Making Current	1 A
Coil Resistance	320 Ω
Contact Limiting Continuous Current	2 A
Insulation Creepage Between Contact and Coil	1.76 mm[.069 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)	450 mW
Signal Relay Coil Voltage Rating	12 VDC
Signal Relay Contact Switching Voltage (Max)	60 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	3.5 g[.1235 oz]
Contact Features	
Contact Plating Material	Gold
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-Palladium Alloy
Contact Number of Poles	1
Termination Features	
Termination Type	Through Hole
Mechanical Attachment	
Signal Relay Mounting Type	Printed Circuit Board
Dimensions	



Width Class (Mechanical)	10 – 12 mm
Width	10.9 mm[.429 in]
Height	11.2 mm[.441 in]
Length Class (Mechanical)	14 – 16 mm
Insulation Clearance Between Contact and Coil	1.5 mm[.059 in]
Height Class (Mechanical)	11 – 12 mm
Length	15.4 mm[.606 in]
Insulation Clearance Class	0 – 2.5 mm
Usage Conditions	
Usage Conditions Environmental Ambient Temperature (Max)	60 °C[140 °F]
	60 °C[140 °F] 50 – 70°C
Environmental Ambient Temperature (Max)	
Environmental Ambient Temperature (Max) Environmental Ambient Temperature Class	50 – 70°C
Environmental Ambient Temperature (Max) Environmental Ambient Temperature Class Operating Temperature Range	50 – 70°C
Environmental Ambient Temperature (Max) Environmental Ambient Temperature Class Operating Temperature Range Operation/Application	50 – 70°C -30 – 60 °C

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 2022 (223) Does not contain REACH SVHC
Halogen Content	Not Low Halogen - contains Br or Cl > 900 ppm.
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 | Potter & Brumfield T81



Documents

Product Drawings

T81N5D312-12

English

T81N5D312-12

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_7-1393779-1_C3.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_7-1393779-1_C3.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_7-1393779-1_C3.3d_stp.zip



English

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

Datasheets & Catalog Pages

T81N/T81H Ultraminiature, High Density PC Board Relay

English

Product Specifications

Definitions, Handling, Processing, Testing and Use of Relays

English

Product Environmental Compliance

Product Compliance

English

Product Compliance

English