T81N5D312-05 ☐ SUPERSEDED

Potter & Brumfield | Potter & Brumfield T81

TE Internal #: 6-1393779-9

TE Internal Description: T81N5D312-05 Signal PCB Relays, P&B T81 Series

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Relays & Contactors > Relays > Signal Relays > Signal PCB Relays, P&B T81 Series











Contact Arrangement: 1 Form C SPDT-CO

Coil Magnetic System: Monostable

Contact Current Rating: 1 A
Performance Type: Standard

Product Mount Type: Printed Circuit Board

All Signal PCB Relays, P&B T81 Series (0)

Features

Configuration Features

Contact Arrangement	1 Form C SPDT-CO
Contact Number of Poles	1

Electrical Characteristics

Insulation Initial Dielectric Between Open Contacts	500 Vrms
Contact Limiting Making Current	1 A
Contact Limiting Short-Time Current	1 A
Contact Limiting Continuous Current	2 A
Insulation Initial Dielectric Between Contacts & Coil	1000 Vrms
Insulation Initial Resistance	1000000 ΜΩ
Contact Limiting Breaking Current	1 A
Contact Switching Load (Min)	1mA @ 1V
Coil Resistance	55 Ω
Contact Current Rating	1 A



Contact Voltage Rating	24 VDC
Contact Voltage Rating Coil Power Rating DC	.45 W
Coil Voltage Rating	5 VDC
Contact Switching Voltage (Max)	125 VAC
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Signal Characteristics	00.7 ID @ 0000 ALL 20 ID @ 4000 ALL
Isolation (HF Parameter)	-20.7dB @ 900MHz, -39dB @ 100MHz
Insertion Loss (HF Parameter)	02dB @ 100MHz,27dB @ 900MHz
Body Features	
Product Weight	3.5 g[.1235 oz]
Contact Features	
Contact Plating Material	Gold
Contact Material	Nickel-Palladium Alloy
Termination Features	
Relay Connection Type	PCB Termination
Terminal Configuration	PCB Pins
Mechanical Attachment	
Product Mount Type	Printed Circuit Board
Dimensions	
Insulation Clearance Between Contact & Coil	1.5 mm[.059 in]
Insulation Creepage Between Contact & Coil	1.76 mm[.069 in]
Product Width	10.9 mm[.429 in]
Product Length	15.4 mm[.606 in]
Product Height	11.2 mm[.44 in]
Usage Conditions	
Environmental Category of Protection	RTIII
Environmental Ambient Temperature (Max)	60 °C[140 °F]
Operating Temperature Range	-30 – 60 °C
Operation/Application	
Current Type	AC, DC
Coil Magnetic System	Monostable
Performance Type	Standard



Packaging Method	Box & Tube
Other	
Length Class (Mechanical)	14 – 16 mm
Environmental Ambient Temperature Class	50 – 70 °C
Height Class (Mechanical)	11 – 12 mm
Coil Power Rating Class	.4 – .5 W
Width Class (Mechanical)	10 – 12 mm
Contact Current Class	0 - 2 A

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 2024 (241) 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

Also in the Series

Customers Also Bought





TE Part #NB15694001 RNF-150 Heat Shrink Tubing



TE Part #1-794610-2 MICRO MNL RPT CNT,LS PC 30AU L



TE Part #323127 SOLIS SPD 22-16COMM 22-18MIL 6



TE Part #794617-6 6POS,MICRO MNL,RCPT HSG



TE Part #794616-6
FREE HANG DBL ROW HSG 6 POS



TE Part #9088924002 DR-25-TW-3/8-0-SP



TE Part #YDTS20W13-35PAV001 RECP ASSY



Documents

Product Drawings

T81N5D312-05

English

CAD Files

3D PDF

3D

Customer View Model

ENG_CVM_CVM_6-1393779-9_C3.2d_dxf.zip

English

Customer View Model

ENG_CVM_CVM_6-1393779-9_C3.3d_igs.zip

English

Customer View Model

ENG_CVM_CVM_6-1393779-9_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 General Purpose Relays

English