



Features

- · Gold clad contacts in a 1 Form C contact arrangement.
- Standard 0.1" x 0.3" grid spacing in a DIP configuration.
- Standard or sensitive DC coils through 24 volts.
- · High dielectric strength.
- · Well suited for audio communications circuits, logic and process control, vending machines, thermostats and office automation applications.
- · Immersion cleanable, plastic sealed case.
- Quiet operation for security applications.

Contact Data @ 20°C

Arrangements: 1 Form C (SPDT).

Material: Gold overlay silver-palladium alloy

Ratings: 1 amp @ 24VDC, resistive; 0.5 amp @ 120VAC, resistive.

Max. Switching Current: 2A Max. Switching Power: 60VA/24W Max. Switching Voltage: 120VAC/60VDC. Expected Mechanical Life: 10 million operations.

Expected Electrical Life: 150,000 ops. @ 1A, 24VDC, resistive. 100,000 ops. @ 1A, 120VAC, resistive. Initial Contact Resistance: 50 milliohms, max., @ 100mA, 6VDC

Surge Voltage:

Between Coil and Contacts (10 x 160µs): 1,500V: (FCC Part 68).

Initial Dielectric Strength

Between Open Contacts: 500V rms, 50/60 Hz., for 1 minute.

Contact to Coil: 1,000V rms, 50/60 Hz., for 1 minute.

Initial Insulation Resistance

Between Mutually Insulated Conductors: 108 ohms @ 500VDC, 20°C and 65% relative humidity.

Coil Data @ 20°C

Voltage: 3 through 24VDC

Nom. Power (Approx.): Std. Coil: 450 mW; Sensitive Coil: 200 mW. Maximum Power: Std. Coil: 800 mW.; Sensitive Coil: 640 mW.

Temperature Rise: Std. Coil: 105°C per watt, typ

Sensitive Coil: 125°C per watt, typ.

Maximum Coil Temperature: 105°C.

Duty Cycle: Continuous.

T81N/T81H series

Ultraminiature, High Density PC Board Relay

FII File E29244

File LR48471

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Coil Data @ 20°C

Standard Coils		Sensitive Coils	
Nominal Voltage (VDC)	Resistance ±10% (Ohms)	Nominal Voltage (VDC)	Resistance ±10% (Ohms)
3	20	3	45
5	55	5	125
6	80	6	180
9	180	9	400
12	320	12	700
24	1,280	24	2,800

Operate Data @ 20°C

Must Operate Voltage: 70% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time (Excluding Bounce) †: Standard Coil: 5 ms, approx. Sensitive Coil: 5 ms, approx.

Release Time (Excluding Bounce)†: All Models: 2 ms, approx.

† At or from Nominal Coil Voltage

Environmental Data

Temperature Range: Standard Coil: -40°C to +55°C Sensitive Coil: -40°C to +75°C. Vibration: 0.059" (1.5mm) max. excursions for 10-40 Hz.

Shock: Standard Coil: 10g for 11 ms

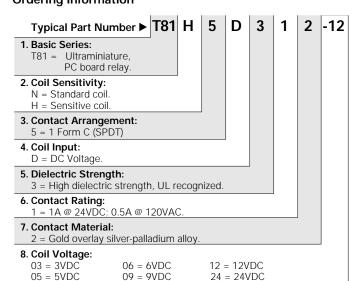
Sensitive Coil: 6g for 11 ms.

Mechanical Data

Termination: Printed circuit terminals on 0.1" (2.54mm) centers.

Enclosure: Sealed PBT plastic case. Weight: 0.14 oz. (4g) approximately.

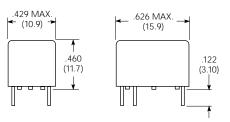
Ordering Information



Our authorized distributors are more likely to stock these items.

T81N5D312-05 T81H5D312-05 T81H5D312-12 T81N5D312-24 T81H5D312-06 T81H5D312-24 T81N5D312-12

Outline Dimensions



Wiring Diagram (Bottom View)



PC Board Layout (Bottom View)

