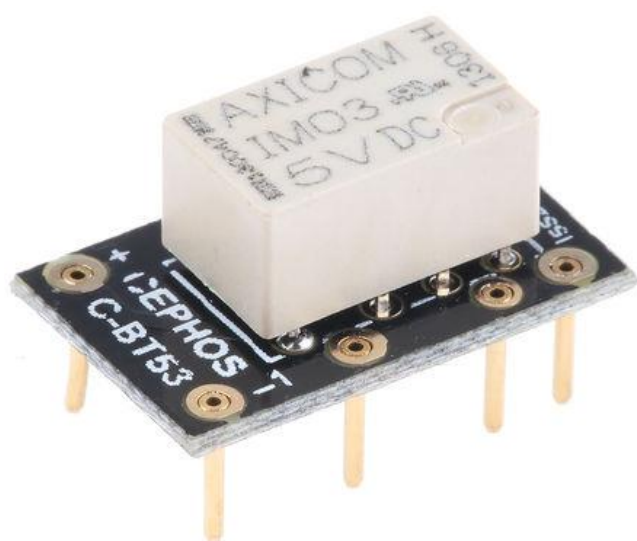


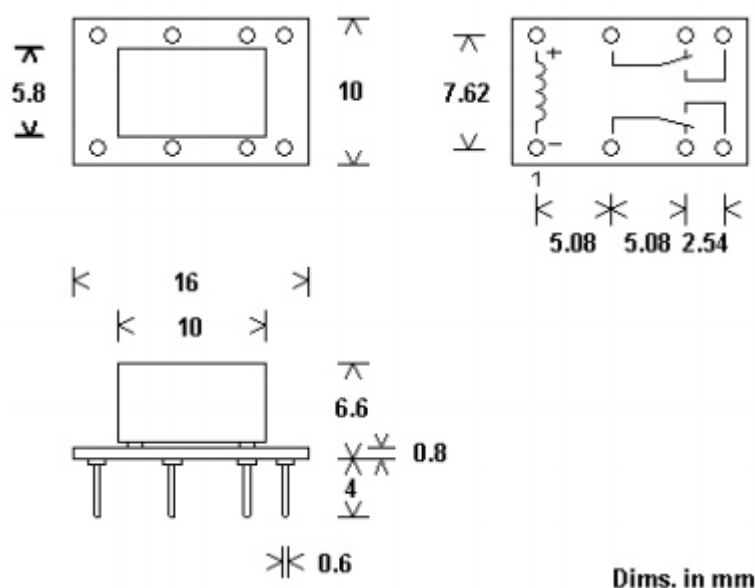
Datasheet

DPDT Through Hole Mount Non-Latching Relay, 2 A, 5V

RS Stock 819-8981



Dimensions: (mm)



Dims. in mm

General Data

- Operate time at V_{NOM} typ./max. - 1ms/3ms
- Release time without parallel diode typ./max. - 1ms/3ms
- Release time with parallel diode typ./max. - 3ms/5ms
- Bounce time at closing contact typ./max. - 1ms/5ms
- Max. switching rate without load - 50 operations/s
- Ambient temperature - -40°C to $+85^{\circ}\text{C}$
- Thermal resistance - $<150\text{K/W}$
- Max. Permissible coil temperature - 125°C
- Degree of protection / environmental - Immersion cleanable / IP67
- Mounting position - Any
- Minimum switching voltage - $100\mu\text{V}$
- Initial contact resistance / measuring condition: $10\text{mA}/20\text{mV} < 50\text{m}$
- Thermoelectric potential - $<10\mu\text{V}$

Electrical endurance

- at contact application ($<30\text{mV}/>10\text{mA}$) min. 2.5×10^6 operations
- at $125\text{VDC} / 0.24\text{A}$ - 30W min. 5×10^5 operations
- at $220\text{VDC} / 0.27\text{A}$ - 60W min. 1×10^5 operations
- at $250\text{VAC} / 0.25\text{A}$ - 62.5VA min. 1×10^5 operations
- at $30\text{VDC} / 1\text{A}$ - 30W min. 5×10^5 operations
- at $30\text{VDC} / 2\text{A}$ - 60W min. 1×10^5 operation

Insulation

- Insulation resistance at $500\text{VDC} > 10^9 \Omega$
- Dielectric test voltage
- between coil and contacts 1800VRMS
- between adjacent contact sets 1000VRMS
- between open contacts 1000VRMS
- Surge voltage resistance
- (according to Telcordia TR-NWT 001089 [$2/10\mu\text{s}$] according to EC60950 [$10/700\mu\text{s}$])
- between coil and contacts 2500V
- between adjacent contact sets 1500V
- between open contacts 1500V

Nominal Voltage	Minimum Voltage	Maximum voltage	Release Voltage Minimum	Coil Power mW	Coil Resistance $\Omega \pm 10\%$	Relay Code
5	3.75	12.10	0.50	140	178	C-BT53/1
12	9.00	28.90	1.20	140	1029	C-BT53/3
24	18.00	48.50	2.40	200	2880	C-BT53/5



ENGLISH

2 pole telecom / signal relay, polarised, 2 pole changeover / 2 Form C / DPDT

- Max. Switching power: 60W / 62.5VA
- Max. Switching voltage: 220VDC / 250VAC
- Max. Switching current: 2A
- Bifurcated contacts: Palladium-Ruthenium, gold covered
- Low coil power consumption: 5V and 12V version: 140mW 24V version: 200mW

Direct replacement for the BT53 / BT53W series, Omron G5A-234P-53, Panasonic DF2 and Fujitsu FBR46 relays

The overall Cephos C-BT53 module dimensions are: 16 x 10mm, identical to the original BT53, G5A-234P-53, DF2 and FBR46 footprints. The gold finished module pins enable easy insertion into an existing 12W dil socket or direct soldering into a printed circuit board.