

DTC2

subminiature pcb signal relay

DURAKOOL



- subminiature - only 21 x 10 x 11.6mm
- Up to 2A /30VDC rating
- DIL Pitch PCB mounting
- Cost effective
- RoHS Compliant

Contacts

Contact number & arrangement	DPDT (2 Changeover); 2 Form C	
Contact material	Ag + Au plate (2um)	
Max. switching voltage	AC/DC	120VAC, 30VDC
Min. switching current / voltage	1mA/1VDC	
Rated load (resistive - cos φ=1)	AC1	1A, 120VAC
	DC1	2A, 24VDC
Max. switching power	120VA / 48W	
Initial resistance	≤ 100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	3...48V
Must release voltage	≥0.1Un	
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	0.20W / 0.36W, 48V

Insulation

Insulation resistance	≥100MΩ at 500VDC, 50%RH	
Dielectric strength		
	coil to contact	1000Vrms, 1min
	contact to contact	500Vrms, 1min

General Data

Operating time (typical)	mS	8mS, 0.2W / 6mS, 0.36W
Release time (typical)	mS	4
Electrical Life (resistive 1800ops/hr)	ops	1 x 10 ⁵
Mechanical life (18000ops/hr)	ops	1 x 10 ⁷
Dimensions	L x W x H	21 x 10 x 11.6mm
Weight	≤ 4.8g	
Ambient temperature	storage	-30 to 80°C
	operating	-30 to 80°C
Shock resistance	Functional: 10g 11mS; Destructive: 100g	
Vibration resistance	DA 1.5mm 10-55Hz	

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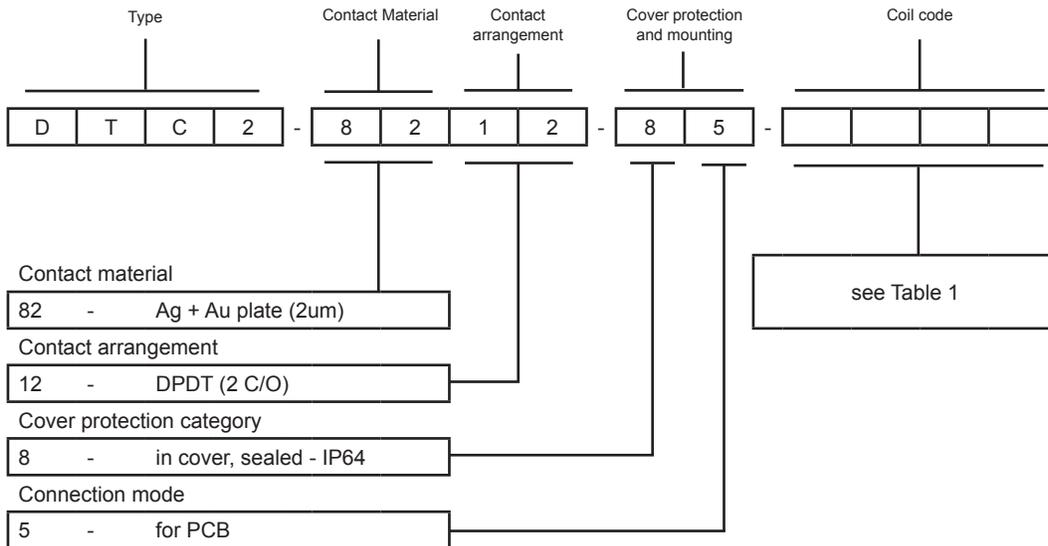


Coil Data

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Power Consumption (mW)	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)	Max. Allowable Voltage (VDC)
S003	3	45	200	2.25	0.3	4.5
S005	5	125	200	3.75	0.5	7.5
S006	6	180	200	4.50	0.6	9.0
S009	9	405	200	6.75	0.9	13.5
S012	12	720	200	9.00	1.2	18.0
S024	24	2880	200	18.00	2.4	36.0
1048	48	6400	360	36.00	4.8	72.0

Ordering codes



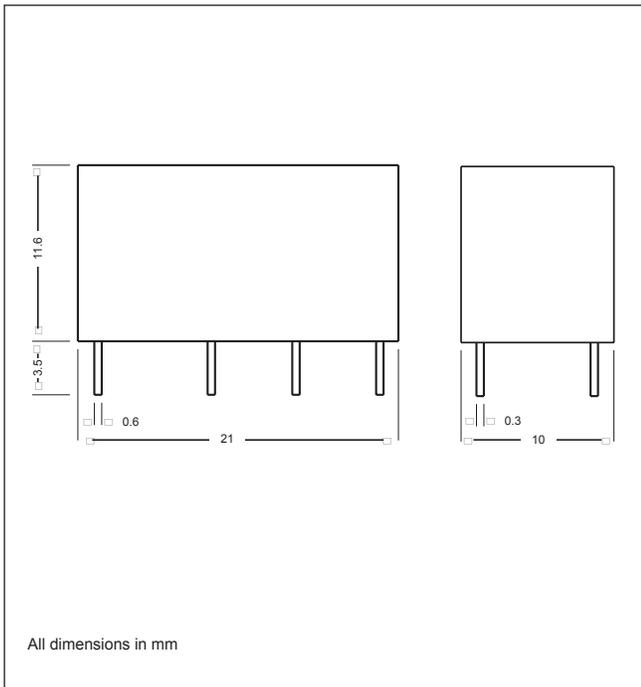
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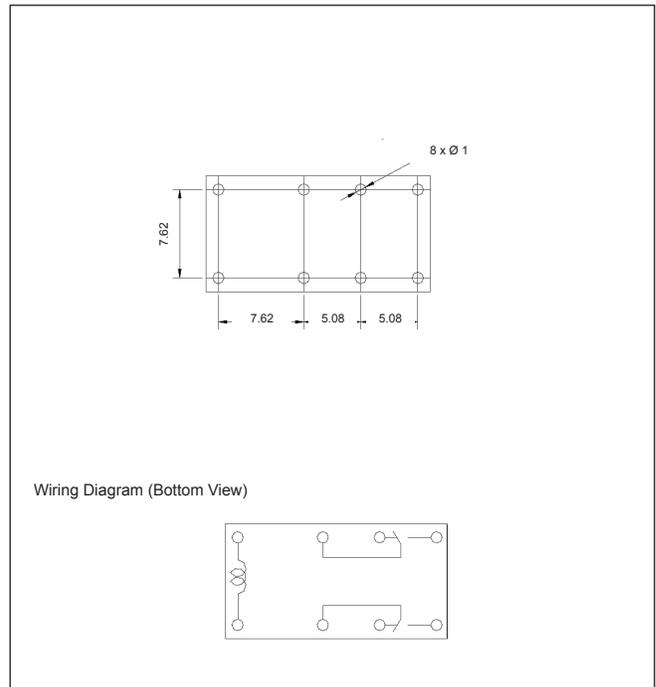
Overall Dimensions

Fig. 1



PCB Mounting Dimensions

Fig. 2



Reference Curves

Fig. 3

