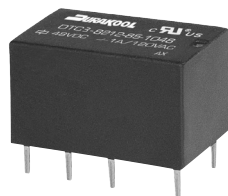


# DTC3

## subminiature pcb signal relay

# DURAKOOL



- subminiature - only 20.2 x 10.2 x 10.6mm
- High switching capacity 60W, 125VA
- DIL Pitch PCB mounting
- High sensitivity polarized & latching coils
- RoHS Compliant

### Contacts

Contact number & arrangement	DPDT ( 2 Changeover); 2 Form C	
Contact material	Ag + Au plate (2um)	
Max. switching voltage	AC/DC	125VAC, 30VDC
Min. switching current / voltage	1mA/1VDC	
Rated load (resistive - cos φ=1)	AC1	1A, 125VAC
	DC1	2A, 30VDC
Max. switching power	125VA / 60W	
Initial resistance	≤ 50mΩ, max. at 0.1A/6VDC	

### Coil

Rated voltage	DC	3...48V
Must release voltage	≥0.1Un	
Operating range of supply voltage	See coil tables 1, 2 & 3	
Rated power consumption	DC	See coil table 1, 2 & 3. 75mW, 150mW & 200mW

### Insulation

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

### General Data

Operating time (typical)	mS	≤ 4
Release time (typical)	mS	≤ 3
Electrical Life (resistive 1800ops/hr)	ops	1 x 10 <sup>5</sup> (2A/30VDC), 5 x 10 <sup>5</sup> (1A/30VDC)
Mechanical life (18000ops/hr)	ops	1 x 10 <sup>8</sup>
Dimensions	L x W x H	20.2 x 10.2 x 10.6mm
Weight	≤ 4.5g	
Ambient temperature	storage	-40 to 85°C
	operating	-40 to 85°C
Shock resistance	Functional: 50g; Destructive: 100g	
Vibration resistance	20g 10-55Hz	

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Coil Data - single side stable

Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (mW)	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)	Max. Allowable Voltage (VDC)
S003	3	60	150	2.4	0.3	7.0
S005	5	167	150	4.0	0.5	11.5
S006	6	240	150	4.8	0.6	13.8
S009	9	540	150	7.2	0.9	20.8
S012	12	960	150	9.6	1.2	27.7
S024	24	3840	150	19.2	2.4	55.4
S048	48	11520	200	36.00	4.8	96.0

Coil Data - single coil latch

Table 2

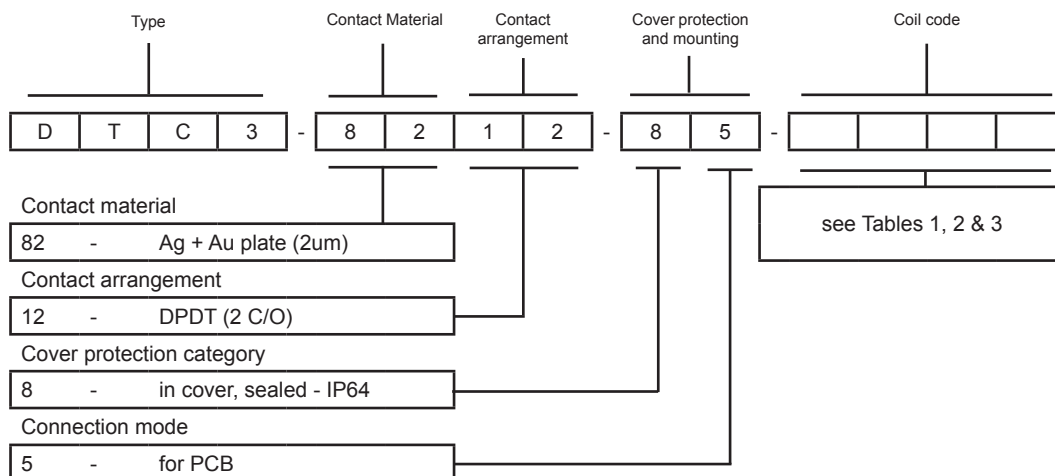
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (mW)	Release Voltage max. (VDC)	Max. Allowable Voltage (VDC)
SL03	3	90	100	2.25	8.4
SL05	5	330	75	4.00	16.0
SL06	6	480	75	4.80	19.0
SL09	9	1080	75	7.20	29.0
SL12	12	1920	75	9.60	39.0
SL24	24	7680	75	19.2	78.0

Coil Data - twin coil latch

Table 3

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance ( $\Omega$ ) $\pm 10\%$	Power Consumption (mW)	Release Voltage max. (VDC)	Max. Allowable Voltage (VDC)
TL03	3	45	200	2.25	6.0
TL05	5	167	150	3.75	11.5
TL06	6	240	150	4.50	13.8
TL09	9	540	150	6.75	20.8
TL12	12	960	150	9.00	27.7
TL24	24	3840	150	18.00	55.4

### Ordering codes



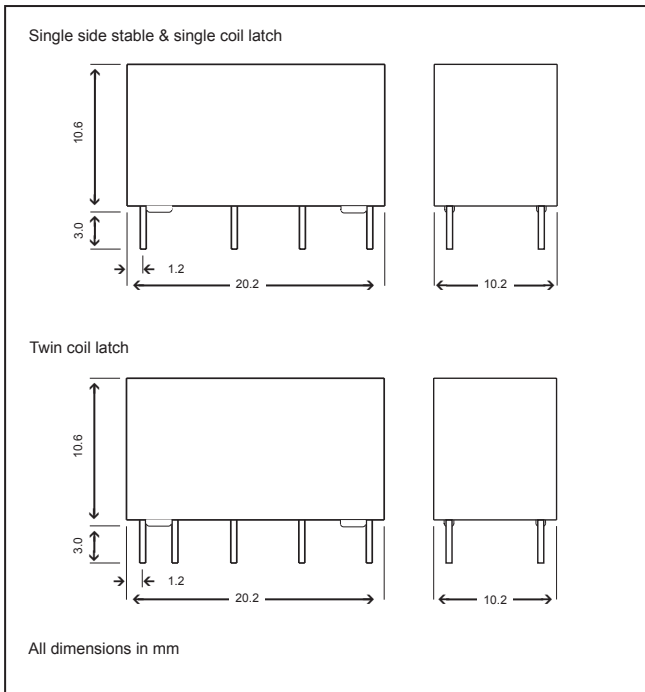
# DTC3

subminiature pcb signal relay



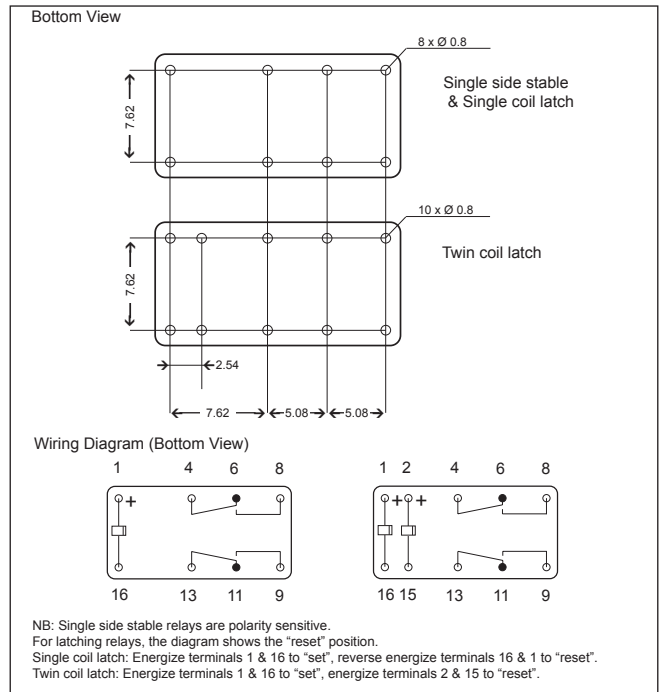
Overall Dimensions

Fig. 1



PCB Mounting Dimensions

Fig. 2



Reference Curves

Fig. 3

