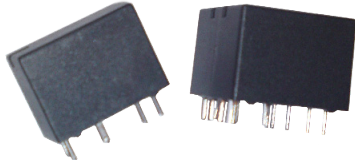


DG29

miniature automotive pcb power relay

DURAKOOL



- miniature - only 14 x 7.2 x 13.5mm
- optimised for DC switching
- Slim SPDT and twin 2 x SPDT
- Two separate relays in miniature
- RoHS Compliant

Contacts

Contact number & arrangement	SPDT (1 Form C), 2 x SPDT	
Contact material	AgSnInO	
Max. switching voltage	DC	40V
Min. switching current / voltage	100mA / 12VDC	
Rated load	20A at 14VDC	
Max. continuous current	25A	
Max. switching current	Make	25A
	Break	25A
Initial resistance	<100mΩ, max. at 0.1A/6VDC	

Coil

Rated voltage	DC	12V, 24V
Must release voltage	≥0.1Un	
Operating range of supply voltage	See coil table 1	
Rated power consumption	DC	560mW - see coil table 1

Insulation

Insulation resistance	100MΩ at 500VDC, 50%RH	
Dielectric strength	coil to contact	550Vrms, 1min
	contact to contact	550Vrms, 1min

General Data

Operating time (typical)	mS	4
Release time (typical)	mS	2
Electrical Life	ops	2 x 10 ⁵
Mechanical life	ops	1 x 10 ⁷
Dimensions	L x W x H	17.5 x 9.2 x 13.5 mm (single), 17.5 x 16.9 x 13.5 mm (twin)
Weight	4g / 8g approx.	
Ambient temperature	storage	-40 to 155°C
	operating	-40 to 85°C
Shock resistance	Functional: 300m/s ² ; Destructive: 450m/s ²	
Vibration resistance	60m/s ² , 10Hz-500Hz	

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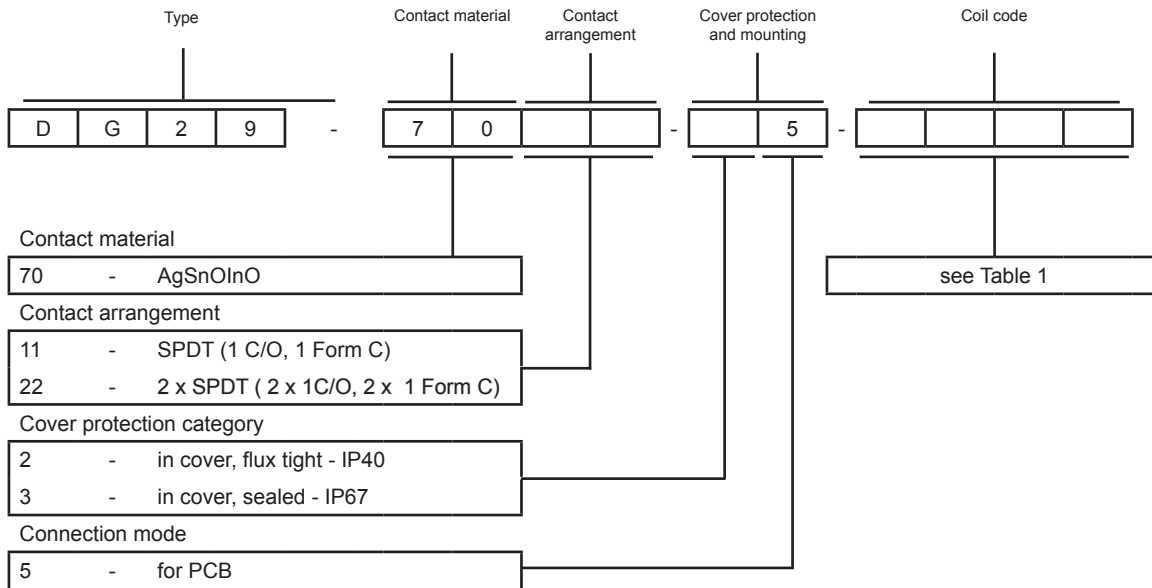


Coil Data

Table 1

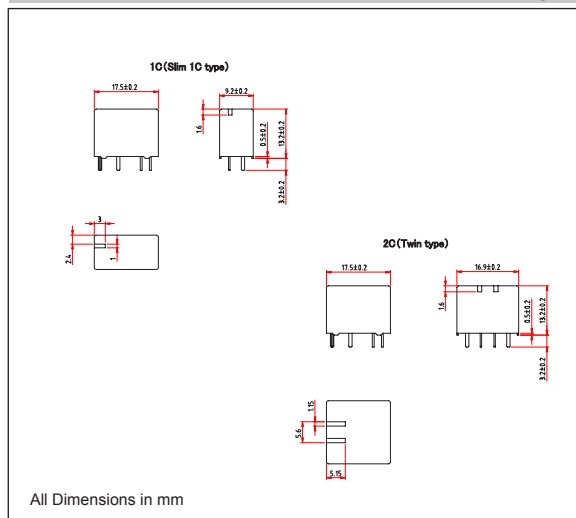
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) $\pm 10\%$	Must operate voltage max. (V DC)	Must release voltage min. (V DC)
1012	12	254	7.2	1.0
1024	24	1020	14.4	2.0

Ordering codes



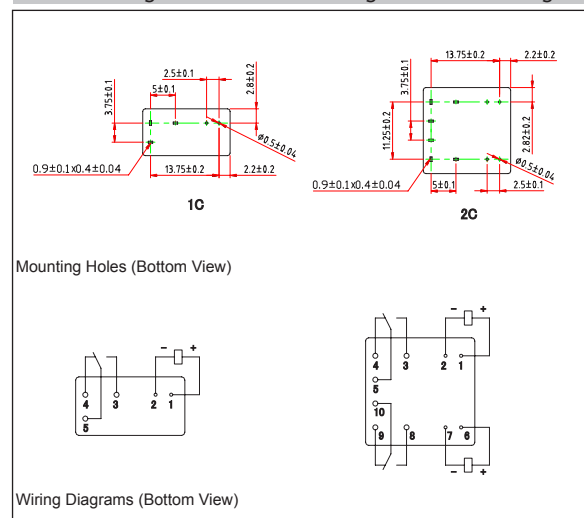
Overall Dimensions

Fig. 1



PCB Mounting Dimensions and Wiring

Fig. 2



Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of motor load.
- 3: Electrical life is strongly dependent of switching frequency, On/Off ratio and environmental conditions.

