DG27

ultra miniature automotive pcb relay





- ultra miniature only 24.2 x 13.2 x 10.3 mm
- optimised for DC switching up to 30A
- two separate DG20 relays in one package
- Cost effective
- RoHS Compliant

Contacts

Contact number & arrangement		2 x SPST-NO (2 x 1 Form A), 2 x SPDT (2 x 1 Form C)				
Contact material		AgSnOlnO, AgNi0.15				
Max. switching voltage	DC	16V				
		2 x SPST-NO	2 x SPDT			
			Normally Open	Normally Closed		
Max continuous current per relay	DC	30A @12VDC	30A @ 12VDC	25A @ 12VDC		
Max switching current ² (AgSnOInO)	make	50A	50A	25A		
	break	30A	30A	25A		
Min. switching current / voltage		AgNi0.15: 0.1A, 12VDC / AgSnOInO: 0.5A, 12VDC				
Initial contact resistance		≤100mΩ, max. at 0.1A, 6VDC				
Coil						
Rated voltage	DC	6V, 10V, 12V				
Must release voltage		≥0.1 (≥0.125 6VDC coil)				
Operating range of supply voltage		See coil table 1				
Rated power consumption	DC	0.55W - see coil table 1				
Insulation						
Insulation resistance		100MΩ at 500VDC, 50%RH				
Dielectric strength	coil to contact	500Vrms, 1min				
General Data						
Operating time (typical)	ms	3				
Release time (typical)	ms	1.5				
Electrical Life ³	ops	1 x 10 ⁵				
Mechanical life	ops	1 x 10 ⁷				
Dimensions	LxWxH	24.2 x 13.2 x 10.3mm				
Weight		8g approx.				
Packing		Plastic tray, 100 relays per tube.				
Ambient temperature	storage	-40 to 155°C				
	operating	-40 to 105°C				
Shock resistance		30g, 6ms				

Sales Department Tel: (888) 847-6552



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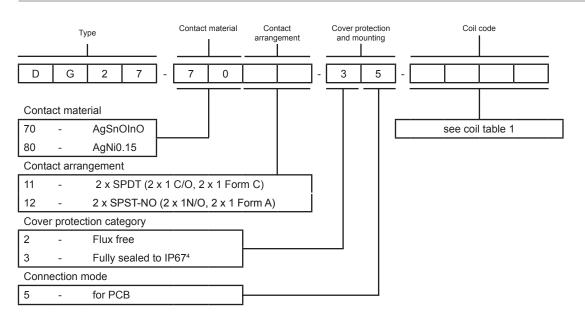
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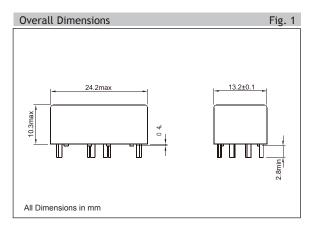


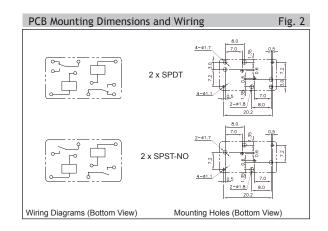
Coil Data Table 1

Coil Voltage Code	Nominal Voltage (V DC)	Coil Resistance (Ω) ±10%	Must operate voltage max. (V DC)	Must release voltage min. (V DC)	Max allowable Overdrive * V DC (23'C)		
Standard Coil (0.55W) (Contact factory for 0.8W coil)							
1006	6	64	3.5	0.6	12.0		
1010	10	181	5.7	1.00	20.0		
1012	12	254	6.9	1.20	24.0		
* Above 85°C, maximum allowable voltage should be reduced to 72%							

Ordering codes







Notes:

- 1: All parameters, unless otherwise specified, are measured at ambient temperature of 23°C.
- 2: Maximum make current refers to inrush current of lamp load.
- 3: Electrical life obtained at resistive load at 20A, 13.5VDC on NO contacts, 6 ops/min.
- 4: For maximum electrical life, please remove the knock off nib of the sealed version.

