DG5N miniature pcb power relay



- miniature only 20.5 x 7 x 15mm
- High switching capacity 140W, 1250VA
- High sensitivity 200mW coils
- Cadmium free contacts
- RoHS Compliant



Contacts

Contacts				
Contact number & arrangement		SPST-NO (1 Form A)		
Contact material		AgSnO ₂		
Max. switching voltage	AC/DC	250VAC, 28VDC		
Rated load (resistive - cos φ=1)	AC1	5A/250VAC		
	DC1	5A/28VDC		
Max. switching power		1250VA / 140W		
Contact Resistance (Initial)		\leq 50m Ω at 6VDC/1A		
Coil				
Rated voltage	DC	348V (3V coil not UL approved)		
Must release voltage		≥0.10Un		
Operating range of supply voltage		See coil table 1		
Rated power consumption	DC	0C 200mW		
Insulation				
Insulation resistance		≥100MΩ at 500VDC, 50%RH		
Tracking resistance	CTI	250		
Dielectric strength	coil to contact	4,000Vrms, 1min (50/60Hz); 10,000V surge		
	contact to contact	1,000Vrms, 1min (50/60Hz)		
General Data				
Operating time (typical)	ms	≤ 10		
Release time (typical)	ms	≤ 5		
Max Switch Rate (On/Off) ele		30 operations / minute		
	mechanical	300 operations / minute		
Electrical Life	ops	1 x 10 ^₅ (resistive 5A/250VAC)		
Mechanical life	ops	1 x 10 ⁷ (no load)		
Dimensions	L x W x H	20.5 x 7.0 x 15mm		
Weight		≤ 4g		
Ambient temperature stora		-30 to 85°C		
	operating	-30 to 85°C		
Flammability Class	UL	94V-0		
Humidity range		45~85% RH		
Shock resistance		Functional: 98.1m/s ² (10g) / Destructive: 981m/s ² 6ms (100g)		
Vibration resistance		10-55Hz DA. 1.5mm		

Sales Department Tel: (888) 847-6552





Coil Data (at 20°C)

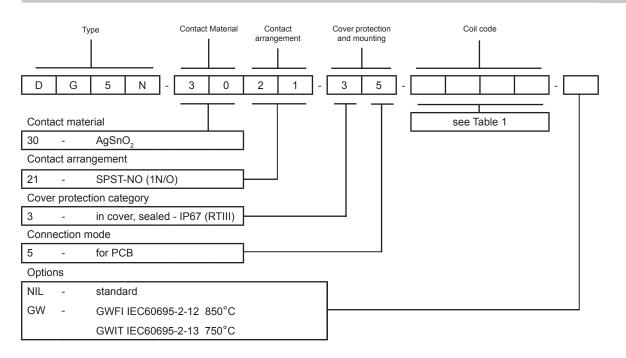
Table 1

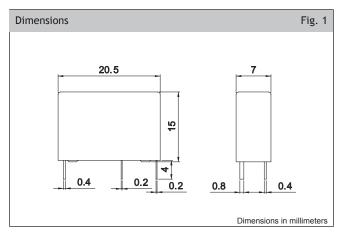
Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Nominal Current (mA)	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)	Max. Allowable Voltage (VDC)
1003	3	45	66.7	2.25	0.3	3.9
1005	5	125	40.0	3.75	0.5	6.5
1006	6	180	33.7	4.50	0.6	7.8
1009	9	405	22.2	6.75	0.9	11.7
1012	12	720	16.7	9.00	1.2	15.6
1024	24	2880	8.3	18.0	2.4	31.2

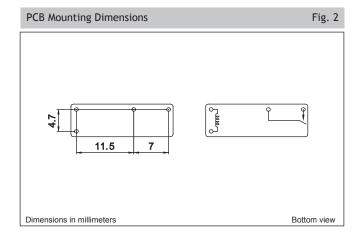
Notes: 1) Operat

1) Operating the relay coil below the nominal voltage may compromise the current ratings for the contacts. 2) 3VDC Coil not UL approved.

Ordering codes







Specifications are subject to change without notice. E&OE.

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