DG6D
miniature pcb power relay



- miniature - only 17.5 x 6.5 x 12.5mm
- High switching capacity 150W, 1250VA
- High sensitivity 200mW coils
- RoHS Compliant

Contacts

Contact number & arrangement		SPST-NO (1 Form A)
Contact material		Ag alloy
Max. switching voltage	AC/DC	250VAC, 30VDC
Min. breaking capacity		10mA/5VDC
Rated load (resistive - cos φ=1)	AC1	5A/250VAC
	DC1	5A/30VDC
Max. switching power		1250VA / 150W
Initial resistance		≤ 100mΩ, max. at 1A/24VDC
Coil		
Rated voltage	DC	5...24V
Must release voltage		≥0.10Un
Operating range of supply voltage		See coil table 1
Rated power consumption	DC	200mW
Insulation		
Insulation resistance		≥1000MΩ at 500VDC, 50%RH
Dielectric strength		
	coil to contact	3000Vrms, 1min (50Hz); 6000Vrms surge
	contact to contact	750Vrms, 1min (50Hz)
General Data		
Operating time (typical)	mS	≤ 10
Release time (typical)	mS	≤ 5
Electrical Life	ops	1×10^5
Mechanical life	ops	2×10^7
Dimensions	L x W x H	17.5 x 6.5 x 12.5mm
Weight		≤ 3g
Ambient temperature	storage	-25 to 70°C
	operating	-25 to 70°C
Shock resistance		Functional: 100m/s² 11ms / Destructive: 1000m/s² 6ms
Vibration resistance		10-55Hz DA. 1.5mm

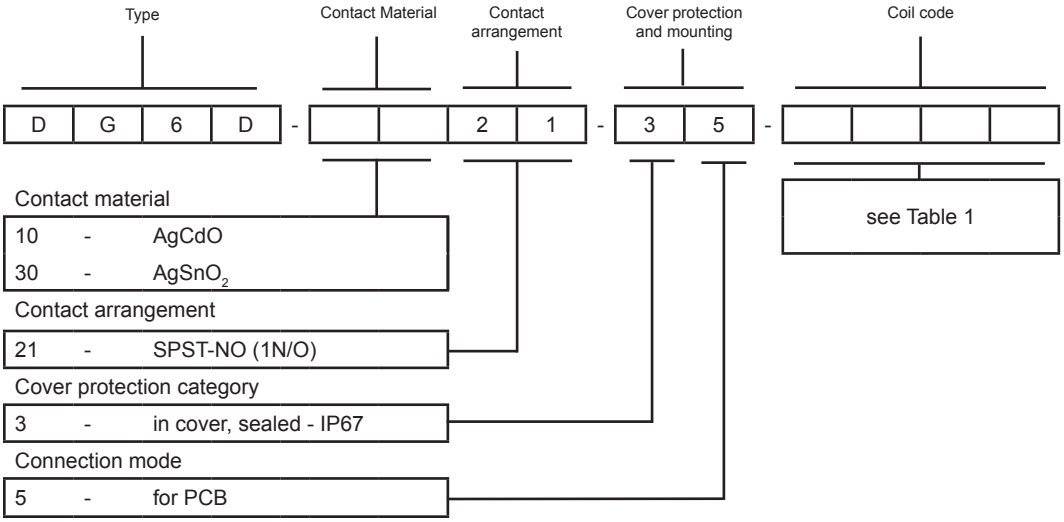
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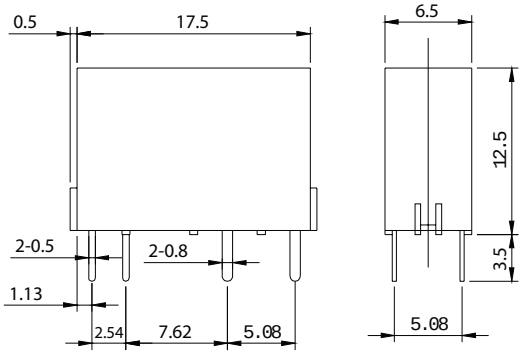
Coil Data (at 20°C) — Table 1

Coil Voltage Code	Nominal Voltage (VDC)	Coil Resistance (Ω) ±10%	Power Consumption (mW)	Must Operate Voltage max. (VDC)	Must Release Voltage min. (VDC)	Max. Allowable Voltage (VDC)
1005	5	125	200	3.75	0.50	6.5
1012	12	720	200	9.00	1.20	15.6
1024	24	2880	200	18.00	2.40	31.2

Ordering codes

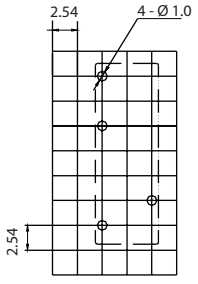


Dimensions — Fig. 1



Dimensions in millimeters

PCB Mounting Dimensions — Fig. 2



Bottom view

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

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