

NOT FOR NEW DESIGN



- Miniature - only 28.5 x 10.1 x 12.3mm
- High switching capacity 150W, 2000VA
- High sensitivity 220mW coils



ROHS
Compliant

Contacts

Contact arrangement	SPST-NO (1 Form A); SPDT (1 Form C)
Contact material	Ag alloy
Max. switching voltage	AC/DC 440VAC, 125VDC
Min. breaking capacity	W 0.5W
Rated load (resistive - cos φ=1)	AC1 8A/250VAC
	DC1 5A/30VDC
Max. switching power	2000VA / 150W
Initial resistance	≤ 100mΩ, max. at 1A/24VDC

Coil

Rated voltage	DC 5...60V
Must release voltage	≥0.10Un
Operating range	See table 1
Rated power consumption	DC See table 1 220mW & 250mW (48VDC & 60VDC)

Insulation

Insulation resistance	≥100MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact 5000Vrms, 1min (50Hz)
	contact to contact 1000Vrms, 1min (50Hz)

General Data

Operating time	typ. ≤7ms
Release time	typ. ≤3ms
Electrical life	ops. 1 x 10 ⁵
Mechanical life	ops. 1 x 10 ⁷

Environmental

Ambient temperature	operating	-40 to +85°C
	storage	-40 to +85°C
Shock resistance	functional	10g 11ms
	destructive	100g
Vibration resistance		10-500Hz 20g/5g
Dimensions	L x W x H	28.5 x 10.1 x 12.3mm
Weight	approx.	≤8.2g

Ordering Code

D G 6 L - 2 0 1 1 - 3 5 - 1 0 1 2

Series

Contact material

20: AgNi 90/10

30: AgSnO₂

Coil code:

See table 1

Contact arrangement

11: SPDT (1C/O) (3.2mm pitch)

21: SPST-NO (1N/O) (5mm pitch)

Environmental protection

2: In cover - IP40

3: In cover, sealed - IP67

Mounting & terminations

5: For PCB

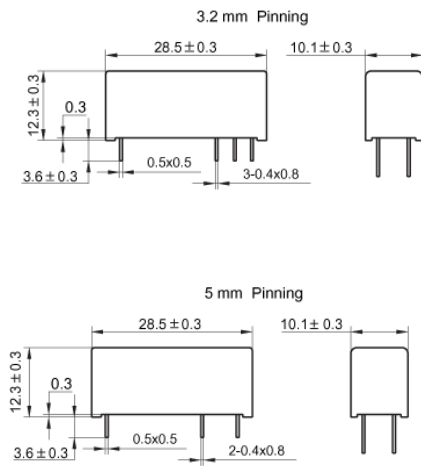
Coil Data (at 20°C)

Table 1

Coil 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	113	220	3.75	0.50	11.8
1006	6	164	220	4.50	0.60	14.1
1012	12	620	220	9.0	1.20	28.2
1018	18	1295	220	13.5	1.80	42.3
1024	24	2350	220	18.0	2.40	56.4
1048	48	9600	250	36.0	4.80	112.8
1060	60	12500	250	45.0	6.00	141.0

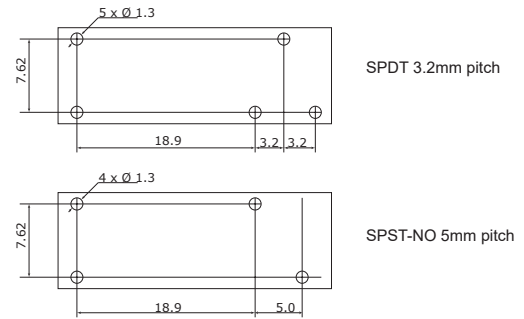
Dimensions mm

Fig. 1



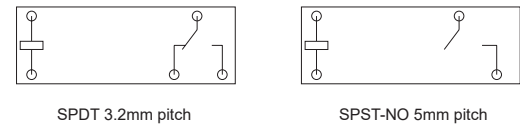
PCB Mounting Dimensions mm (bottom view)

Fig. 2



Wiring Diagrams

Fig. 3



Reference Curves

Fig. 4

