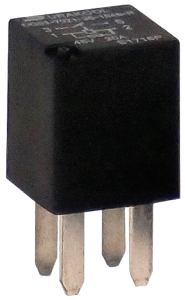
DG93 Series
Ultra Micro ISO 280 Automotive Relays



- Industry standard ISO 280 relay
- Up to 25A 12VDC inrush capability
- 2.8mm QC Terminals
- -40°C to 100°C
- RoHS & ELV Compliant
- Complies with EN IEC 61810

RoHS Compliant ✓

Contacts

Contact arrangement		SPST-NO (1 Form A)
Contact material		$AgSnO_2$
Rated current	DC1	25A,14VDC
Max. switching voltage		16VDC
Max. breaking capacity		350W
Max. switching current		25A
Initial contact resistance		100mΩ (1A 6VDC)
Min. switched load	recommended	100mA / 12VDC
Max. operating frequency	rated load	360 cycles/hour

Coil

Operating range	DC	See table 1
Rated power consumption	W	1.09 (with resistor)
Operate / Release time	ms	≤ 10

Insulation

Coil insulaton system		IEC 31, CLASS F 155°C
	Insulation resistance	>100 MΩ at 500VDC, 50%RH
Dielectric strength	coil to contact	$500V_{rms}$ (50/60Hz, 1min, <1mA leakage)
	open contacts	$500V_{rms}$ (50/60Hz, 1min, <1mA leakage)

General Data

Electrical life at full rated load	cycles	> 1 x 10^5
Mechanical life	cycles	> 1 x 10^6

Environmental

Environmental protection		IP67
Ambient temperature		-40 to +85°C (100°C consult factory)
Relative humidity		5 to 85% (IEC 61810-7 Item 4.16)
Mechanical shock		98m/s², 11ms
Vibration resistance		10-55Hz: DA1.5mm (IEC 61810-7 Item 4.28)
Terminal strength		8N
Dimensions	L x W x H	15.5 x 15 x 16.4 (excluding terminals)
Weight	approx.	10g

Ordering Code

D G 9 3 - 3 0 2 1 - 3 6 - 1 0 1 2 - R

Series

Coil code:
See table 1

Contact material
30: $AgSnO_2$

Contact arrangement
21: SPST-NO (1 Form A)

Mounting & terminations
36: Plug-in, 2.8mm QC

R: Parallel resistor (fitted as standard)

DC Coil Data

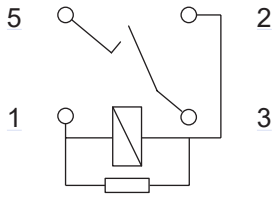
Table 1

Coil code	Nominal voltage (VDC)	Must operate voltage Max. (VDC@ 23°C)	Max. allowable voltage (VDC)	Must release voltage min. (VDC)	Coil resistance Ω ±10% (at 23°C)	Coil power consumption (W)
1012	12	7.8	15.6	1.0	132 (with resistor)	1.09

Circuit Diagram

Fig 1

Bottom view

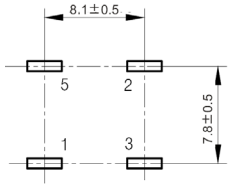


SPST-NO

Mounting

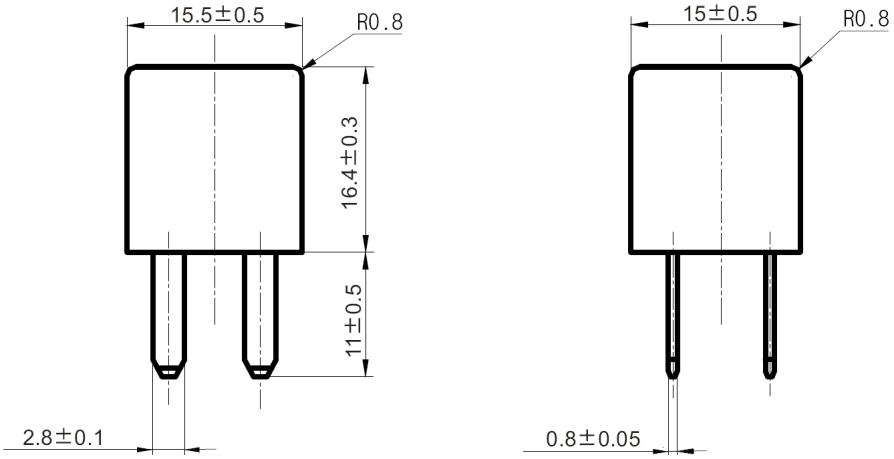
Fig 2

Bottom view



Dimensions

Fig 3



Dimensions mm