

Main Feature

1. The Contact form construction is 1a (SPST).
2. Miniature size with high sensitive type 200mW, high contact reliability with sealed type.
3. The Surge Resistance of GQ Series is 10,000V.
4. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

Application

Domestic Appliances, Office Machines, Audio Equipment, etc.

Contact Rating

- Nominal Load (Resistive Load $\cos \varphi = 1$)
Contact Capacity 5A at 250VAC.
5A at 30VDC.
TV-3 at 120VAC.
Rated Carrying Current 5A.
Max. Allowable Current 5A.
Max. Allowable Voltage AC 250V, DC 30V.
Max. Allowable Power Force 1,250 VA, 300W.
Min. Switching Load DC 5V, 10mA.
- Contact Material Ag Alloy.
- Contact Form SPST.

Performance (at Initial Value)

- Contact Resistance 100m Ω Max. @1A, 6VDC
- Operate Time 10 mSec. Max.
- Release Time 5 mSec. Max.
- Dielectric Strength :
Between Coil & Contact 4,000VAC at 50/60 Hz
for one minute.
Between Contacts 1,000VAC at 50/60 Hz
For one minute.
- Surge Resistance 10,000V (between coil
& contact 1.2x50 μ Sec.)
- Insulation Resistance 100 Mega Ω Min. at
500VDC.
- Max. On/Off Switching :
Electrical 30 Ops per Minute.
Mechanical 300 Ops per Minute.
- Temperature Range -40 ~ 70°C
- Humidity Range 45 ~ 85% RH.

- Coil Temperature Rise 40°C Max.
- Vibration :
Endurance 10 to 55 Hz dual
amplitude width 1.5mm.
Error Operation 10 to 55 Hz dual
amplitude width 1.5mm.
- Shock :
Endurance 1,000 m/S² Min.
Error Operation 100 m/S² Min.
- Life Expectancy :
Mechanical 10⁷ Operations at No
Load condition.
Electrical 10⁵ Operations at
Rated Resistive Load.
2.5x10⁴ Operations at
TV Rated Load.
- Weight About 9.0 g.

Safety Standard & Its File Number

- C-UL E175730
- TÜV R9750747
- VDE 40002204
- SEMKO 9837061/01

Coil Specification (at 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ($\Omega \pm 10\%$)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GQ	3	67	45	Abt. 0.20	80% Maximum	5% Minimum	110%
	5	40	125				
	6	33.3	180				
	9	22.5	400				
	12	16.7	720				
	24	8.3	2,800				

Ordering Information

GQ - SS - 1 12 L M

Contact Form: M: One Form A

Coil Type: L: High Sensitivity DC Coil

Coil Voltage: 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V

Number of Pole: 1: One Pole

Type of Sealing: SS: Flow Solder Type

SH: Plastic Sealed Type

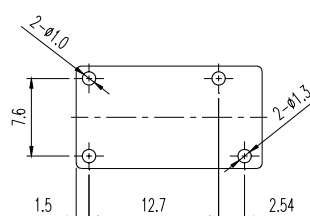
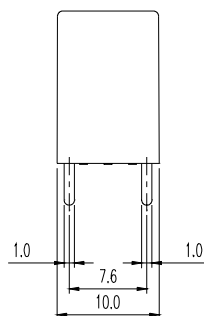
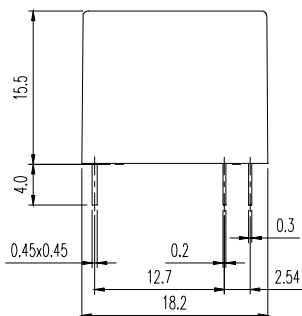
Type: GQ

Classification

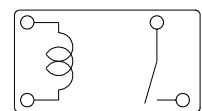
Model	GQ
Coil Sensitivity	High Sensitivity DC Coil
Flow Solder Type	GQ-SS-1□□LM
Plastic Sealed Type	GQ-SH-1□□LM

Dimension

GQ-SS/SH



BOTTOM VIEW



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