



MAIN FEATURE

1. Miniature size with low power consumption for rated loading to 12A.
2. Surge Strength up to 10,000V.
3. Operating temperature up to 105°C.
4. Halogen Free series available.
5. UL Class F insulation available.
6. Comply with RoHS and REACH regulations.

CONTACT RATING

Load Type	GQ (LM)	GQ (LM1)
Rated Load (Resistive)	5A 250VAC	10A 250VAC
	-	12A 125VAC
	5A 30VDC	10A 30VDC
	-	10A 277VAC
Contact Capacity	-	TV-5 120VAC
Rated Carrying Current	5A	10A
Max. Allowable Voltage	AC 250V	AC 250V
	DC 30V	DC 30V
Max. Allowable Current	5A	12A
Max. Allowable Power Force	1,250VA	2,500VA
	150W	300W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST

APPLICATION

Domestic Appliances, Office Machines, Audio Equipment, etc.

PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance 100mΩ Max. @1A,6VDC
- Operate Time..... 10mSec. 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 Strength 10,000V (between coil & contact 1.2x50μSec.)
- Insulation Resistance 100 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
 - Electrical 6 Cycles per Minute
 - Mechanical..... 300 Cycles per Minute
- Temperature Range -40~+105°C
- Humidity Range 45~85% RH.
- Coil Temperature Rise 40°C Max.

- Vibration:
 - Destruction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
 - Malfunction 10 to 55 to 10 Hz, 0.75 mm single amplitude (1.5mm double amplitude)
- Shock:
 - Destruction 1,000 m/S²
 - Malfunction 100 m/S²
- 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 & FILE NUMBER

- LM:
 - UL & C-UL..... E141060
 - TÜV R50121172
 - VDE 40025456
- LM1:
 - UL & C-UL E141060
 - TÜV R50121172
 - CQC..... 14002112636

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				
	15	13.3	1,125				
	18	11.1	1,620				
	24	8.3	2,880				
	48	4.2	11,520				

ORDERING INFORMATION

GQ - SS - 1 12 L M 1 F

	Insulation System:	Nil: Standard Class F: Class F
	Rated Carrying Current:	Nil: 5A 1: 10A
	Contact Form:	M: One Form A
	Coil Sensitivity:	L: High DC
	Coil Voltage:	03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V 15: 15V, 18: 18V, 24: 24V, 48: 48V
	Number of Pole:	1: One Pole
	Type of Sealing:	SS: RT II Flux Proofed SH: RT III Wash Tight
	Type:	GQ

CLASSIFICATION

Model	GQ	
Rated Carrying Current	5A	10A
Flux Proofed	GQ-SS-1□□LM	GQ-SS-1□□LM1/F
Wash Tight	GQ-SH-1□□LM	GQ-SH-1□□LM1/F

DIMENSION (≤ 5mm ± 0.2mm, > 5mm ± 0.3mm, the tolerance of PCB thru hole: +0.1mm)

