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Please note that the number of variants of Goodsky relay part numbers means that it is not possible to maintain stock of every one. If you are researching to replace just one relay on a component, say as a spare part for domestic equipment, you may need to contact the manufacturer of that equipment. Stock of Goodsky relays is maintained in the UK for those exact parts where there is a continuous demand within the UK.

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Important Note

The information shown in these documents is for guidance only. No liability is accepted for any errors or omissions. The designer or user is solely responsible for the safe and proper application of the parts, assemblies or equipment described.

GQ SERIES

For Home Appliance

Application : Wind-Volume Control on Air- Conditioner;
Power Control on Power Supply / TV; etc.

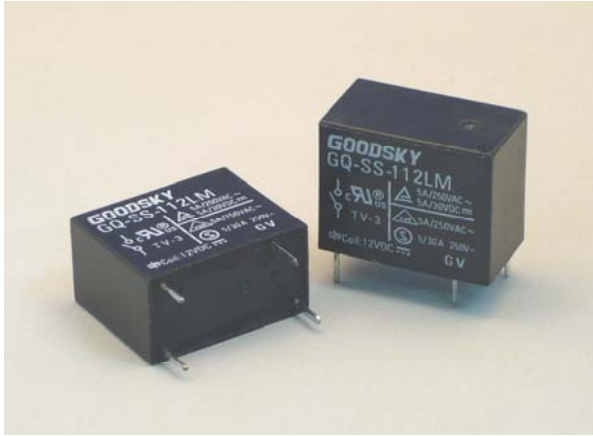
Features : ◆ Small Size (18.2×10.0×15.5mm)
◆ Automation Production
◆ 5A, 250VAC; TV3;
>6mm Creepage / Clearance

Safety Standard : VDE, C-UL, TÜV

RoHS Compliant

GQ性能比較表 (Performance Comparison List)

品牌 Supplier		GOODSKY	Tyco OEG	Soung Chuan	
型號 Item		GQ	OJ/OJE	835	
Coil Type		DCV	DCV	DCV	
接點部 Contact Specs	開關型式 Contact Configuration	1a	1A,1B	1A,,1C	
	接點材質 Contact Material	Ag Alloy	Ag Alloy	Ag Alloy	
	接點規格 Contact Rating	5A 250VAC 5A30VDC TV3 120VAC	(cosφ=1) 5A 250VAC 5A 28VDC (cosφ=0.4) 1.5A 250VAC 1.5A 28VDC	10A240VAC/30VDC 12A120VAC 8A240VAC	
	最大流通電流 Max. Allowable Current	5A	10A	10A	
	最大承受電壓 Max. Allowable Voltage	250 VAC,30VDC	265VAC,30VDC	277VAC/30VDC	
線圈部 Coil Specs	額定電壓 Nominal Voltage	3,5,6,9,12,24	3,5,6,9,12,24,48	3,5,6,9,12,18,24	
	動作電壓 Pull-In Voltage %	80%	75%	80%	
	開放電壓 Drop-Out Voltage %	5%	5%	5%	
	額定消耗功率 Power Consumption	0.20W	0.45 / 0.2W	0.45 /0.2 W	
	最大承受電壓 Max. Allowable Voltage	110%	120% / 130%	160%	
性能 Performance	接點阻抗 Contact Resistance	100mΩ	100mΩ	100mΩ	
	動作時間 Operate Time	10mS	10ms	10ms	
	開放時間 Release Time	5mS	4ms	5ms	
	最大開閉頻率 Max. On/Off Switching:	機械 Mechanical	300/min	300/min	-
		電氣 Electrical	20/min	30/min	-
	耐電壓(AC) Dielectric Strength	I/O	4000V	OJ:4000VAC OJE:3000VAC	1000VAC
		O/O	1000V	750VAC	750VAC
	振動 Vibration	耐久 Endurance	100m/S2	10G	10G
		誤動作 Error Operation	100m/S ²	100G	100G
	壽命 Life Expectancy	機械 Mechanical	1x107	1x107	1x107
		電氣 Electrical	1x105	1x105	1x105
	使用環境溫度 Temperature Range		-40~70℃	-30~55℃	-30~85℃
	使用環境溼度 Humidity Range		45~85%RH	45~85%	-
重量 Weight		9g	9g	6g	
安全規格 Safety Standard		C-UL / TUV VDE / SEMKO	UL / CSA / TUV / VDE / UG	UL / CSA / TUV / VDE	
寸法 Dimension	外型尺寸 Dimension	18.2x10x15.5	12.7x10x14.7	18.8x10.6x15.6	
端腳外型 Terminal Type	直Pin(DIP)	V	V	V	
	90°Pin(SMD)				



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 Strength of GQ Series is 10,000V.
4. The selection of plastic insulation material is designed for high temperature and provides better chemical solution performance.

Contact Rating

Load Type	GQ (LM)
Rated Load (Resistive)	5A 250VAC
	5A 30VDC
Contact Capacity	TV-3 120VAC
Rated Carrying Current	5A
Max. Allowable Voltage	AC 250V
	DC 30V
Max. Allowable Current	5A
Max. Allowable Power Force	1,250VA
	300W
Contact Material	Ag Alloy
Contact Form	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..... 20 Cycles per Minute.
Mechanical 300 Cycles 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 .
Error Operation..... 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 & Its File Number

- C-UL E175730
- TÜV R9750747
- VDE 40002204

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 : RT II flux proofed relays

SH : RT III wash tight relays

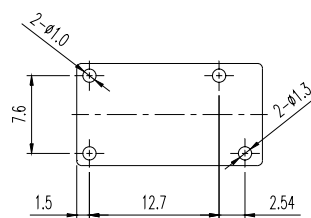
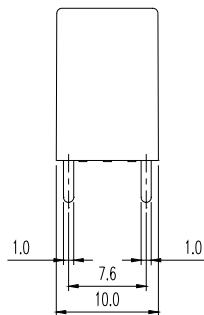
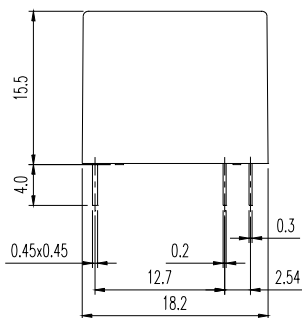
Type: GQ

Classification

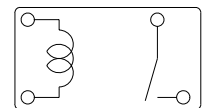
Model	GQ
Coil Sensitivity	High Sensitivity DC Coil
Flux Proofed Relay	GQ-SS-1□□LM
Wash Tight Relay	GQ-SH-1□□LM

Dimension ($\leq 5\text{mm} \pm 0.2\text{mm}$, $> 5\text{mm} \pm 0.3\text{mm}$, the tolerance of PCB thru hole: $+0.1\text{mm}$)

GQ-SS/SH



BOTTOM VIEW



BOTTOM VIEW