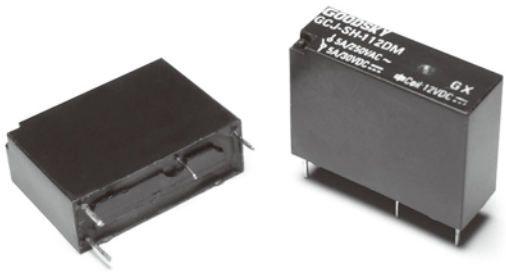
GCJ



MAIN FEATURE

1. Slim size with 10A switching current.
2. Low power consumption 200 mW with Dielectric Strength up to 4,000VAC.
3. UL Class F insulation available.
4. Halogen Free series available.
5. Comply with RoHS and REACH regulations.

CONTACT RATING

Load Type	GCJ (DM)	GCJ (DMN1 / DMS1)
Rated Load (Resistive)	5A 277VAC	10A 277VAC
	5A 30VDC	10A 30VDC
	5A 250VAC (VDE)	-
Contact Capacity	1/8HP 250VAC	-
Rated Carrying Current	5A	10A
Max. Allowable Voltage	AC 400V	AC 400V
	DC 30V	DC 30V
Max. Allowable Current	5A	10A
Max. Allowable Power Force	1385VA	2770VA
	150W	300W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPST	SPST

APPLICATION

Home Appliance, General Control...etc.

PERFORMANCE (AT INITIAL VALUE)

- Contact Resistance ..... 100mΩ Max.@1A,6VDC
- Operate Time ..... 10 mSec. Max.
- Release Time ..... 4 mSec. Max.
- Dielectric Strength:
  Between Coil & Contact..... 4,000VAC at 50/60 Hz for one minute
  Between Contacts..... 1,250VAC at 50/60 Hz for one minute
- Surge Strength ..... 7,000V (between coil & Contact 1.2 / 50μSec.)
- Insulation Resistance..... 1,000 MegaΩ Min. at 500VDC
- Max. On/Off Switching:
  Electrical ..... 6 Cycles per Minute
  Mechanical..... 300 Cycles per Minute
- Temperature Range ..... -30～+85°C
- Humidity Range ..... 20~85% RH.
- Coil Temperature Rise ..... 45°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/S^2
  Malfunction ..... 100 m/S^2
- Life Expectancy:
  Mechanical ..... $5x10^6$ Operations at No Load condition
  Electrical..... 10^5 Operations at Rated Resistive Load
  10^4 Operations at Rated Resistive Load (DMN1.DMS1 Type)
- Weight ..... About 4 g

SAFETY STANDARD & FILE NUMBER

- UL & C-UL E141060
- DMN1 / DMS1 (Pending)
- VDE 40026954

COIL SPECIFICATION (AT 20°C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω±10%)	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)
GCJ	3	66.7	45	Abt. 0.2	75% Maximum	5% Minimum	130%
	5	40	125				
	6	33.3	180				
	9	22.5	405				
	12	16.7	720				
	15	13.3	1125				
	18	11.1	1620				
	24	8.3	2880				

ORDERING INFORMATION

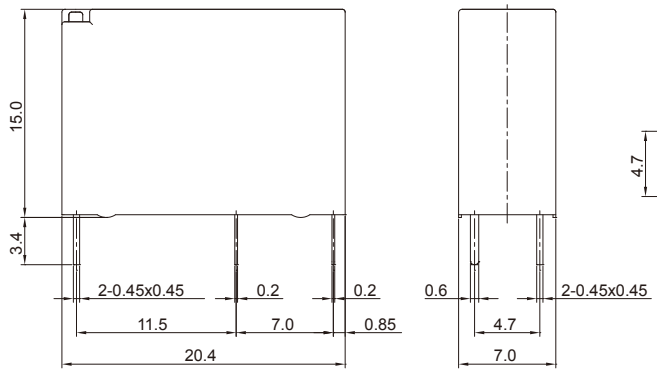
GCJ - SH - 1 12 D M N 1 F

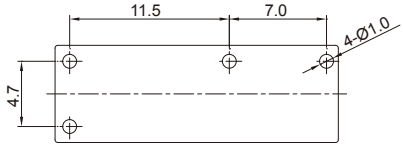
Insulation System:	**Nil:** Standard **F:** Class F
Rated Carrying Current:	**Nil:** Standard **1:**10A (Contact Material Available $AgSnO_2$)
Contact Material:	**Nil:** AgNi **N:** $AgSnO_2$ **S:** $AgSnO_2$ Gilded
Contact Form:	**M:** One Form A
Coil Type:	**D:** Standard DC
Coil Voltage:	**03:** 3V, **05:** 5V, **06:** 6V, **09:** 9V, **12:** 12V, **15:** 15V, **18:** 18V, **24:** 24V
Number of Pole:	**1:** One Pole
Type of Sealing:	**SS:** RT II Flux Proofed **SH:** RT III Wash Tight
Type:	**GCJ**

CLASSIFICATION

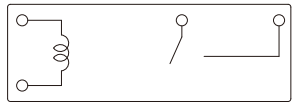
Model	GCJ	
Rated Carrying Current	5A	10A
Contact Form	1A	1A
Flux Proofed	GCJ-SS-1□□DM	GCJ-SS-1□□DMN1 / DMS1
Wash Tight	GCJ-SH-1□□DM	GCJ-SH-1□□DMN1 / DMS1

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





P.C.B Layout
Bottom View



Bottom View

V.01EO