



Main Feature

1. Two Change-Over Contacts available.
2. 6mm insulation distance with Surge Strength 5,000V.
3. TV-5 120VAC certified by UL.
4. Dielectric Strength up to 3,000VAC.
5. Comply with RoHS and REACH regulations

Contact Rating

| Load Type | GSA (DM) |
|----------------------------|-------------|
| Rated Load (Resistive) | 5 A 250VAC |
| | 5 A 120VAC |
| | 5 A 30 VDC |
| Contact capacity | TV-5 120VAC |
| Rated Carrying Current | 5A |
| Max. Allowable Voltage | AC 250V |
| | DC 30V |
| Max. Allowable Current | 5A |
| Max. Allowable Power Force | 1250VA |
| | 150W |
| Contact Material | Ag Alloy |
| Contact Form | DPST |

Application

Audio Equipment, Controlling Equipment, Home Appliance...etc.

Performance (at Initial Value)

- Contact Resistance 100mΩMax. @1A,6VDC
- Operate Time..... 20 mSec. Max.
- Release Time 10 mSec. Max.
- Dielectric Strength:
 - Between Coil & Contact..... 3,000VAC at 50/60 Hz for one minute
 - Between Contacts 1,000VAC at 50/60 Hz for one minute
- Surge Strength..... 5,000V (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..... -30~+55°C
- Humidity Range 45~85% RH.

- Coil Temperature Rise55°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
 - TV Rated Load 2.5x10⁴ Operations at
- Weight.....About 13.8 g

Safety Standard & File Number

- UL & C-UL.....E141060
- TÜV.....R09854034

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) |
|------------------|-----------------------|----------------------|---------------------------------------|-----------------------|-----------------------|------------------------|---------------------------------|
| GSA | 3 | 176.5 | 17 | Abt. 0.54 | 80% Maximum | 5% Minimum | 130% |
| | 5 | 106.4 | 47 | | | | |
| | 6 | 88 | 68 | | | | |
| | 9 | 58 | 155 | | | | |
| | 12 | 44.4 | 270 | | | | |
| | 24 | 21.8 | 1,100 | | | | |
| | 48 | 11 | 4,400 | | | | |

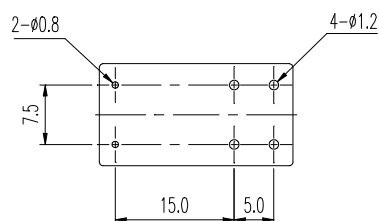
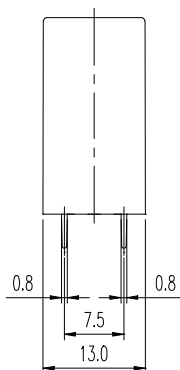
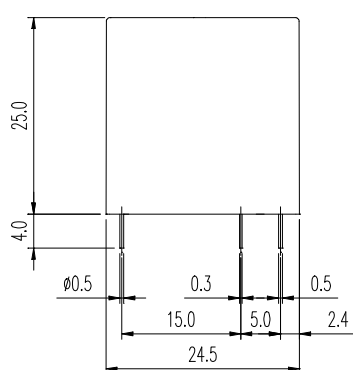
Ordering Information

| | | |
|----------------------------|-------------------------|--|
| GSA - SS - 2 12 D M | Contact Form: | M: Form A |
| | Coil Type: | D: Standard DC Coil |
| | Coil Voltage: | 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V |
| | Number of Pole: | 2: Two Poles |
| | Type of Sealing: | SS: RT II Flux Proofed SH: RT III Wash Tight |
| | Type: | GSA |

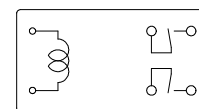
Classification

| Model | GSA |
|--------------|--------------|
| Contact Form | 2A |
| Flux Proofed | GSA-SS-2□□DM |
| Wash Tight | GSA-SH-2□□DM |

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



P.C.B. Layout



BOTTOM VIEW