

## Main Feature



1. Smaller size with 16A switching capacity is designed for high density P.C. Board mounting technique.
2. 8mm Creepage distance. Surge Resistance of 10,000V and Dielectric Strength of 5,000V are available.
3. High Sensitivity DC Coil Type of low power consumption is available.
4. 1/3 Horse Power at 250VAC of GZ Series is certified by UL.
5. TV-8 at 120VAC rating of GZT Model is approved by UL.
6. SPST (1a) is available for Relay GZT model. Both of SPST & SPDT are available for Relay GZ Series.
7. Halogen Free series is available.

## Contact Rating

Load Type	GZ	GZT (DM/LM)
Rated Load (Resistive)	N.O.:16A 250VAC N.O.:16A 24VDC N.C.:10A 250VAC N.C.:10A 24VDC	16A 250VAC 16A 24VDC
	20A 120 VAC (U.L)	20A 120 VAC (U.L)
	20A 24 VDC(U.L)	20A 24 VDC(U.L)
Contact Capacity Rated Carrying Current	-	TV-8 120VAC
	16A	16A
Max. Allowable Voltage	AC: 240V	AC: 240V
	DC: 110V	DC: 110V
Max. Allowable Current	16A	16A
Max. Allowable Power Force	4,000VA	4,000VA
	380W	380W
Contact Material	Ag Alloy	Ag Alloy
Contact Form	SPDT	SPST

## Application

Cooking Appliances, Air Conditioner, Audio Equipment, Domestic Appliances, Controlling Equipment...etc.

## Performance (at Initial Value)

- Contact Resistance ..... 100mΩMax.@1A,6VDC
- Operate Time..... 15 mSec. Max. (D Type)  
20 mSec. Max. (L Type)
- Release Time ..... 8 mSec. Max.
- Dielectric Strength:  
Between Coil & Contact ..... 5,000VAC 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..... -30~55°C
- Humidity Range..... 45~85% RH.
- Coil Temperature Rise..... 45°C Max. (D Type)  
35°C Max. (L Type)

- 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/S<sup>2</sup>.  
Error Operation ..... 100 m/S<sup>2</sup>.
- Life Expectancy:  
Mechanical ..... 10<sup>7</sup> Operations at No  
Load condition.  
Electrical ..... 10<sup>5</sup> Operations at  
Rated Resistive Load.  
2.5x10<sup>4</sup> Operations at  
TV Rated Load.
- Weight.....About 13.2 g.

## Safety Standard & Its File Number

- UL & C-UL.....E141060
- TÜV .....R9854192
- VDE.....40006999
- CQC.....02001001374

## 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)
GZ/D/DM GZT/DM	3	240	12.5	Abt. 0.72	80% Maximum	5% Minimum	130%
	5	138.9	36				
	6	120	47				
	9	78.3	115				
	12	60	200				
	24	29.3	820				
GZ/L/LM GZT/LM	3	176.5	17	Abt. 0.54	80% Maximum	5% Minimum	130%
	5	100	50				
	6	88	68				
	9	58	155				
	12	44.4	270				
	24	21.8	1,100				
	48	10.9	4,400				

## Ordering Information

GZ - SS - 1 12 D M

**Contact Form:** Nil: One Form C

M: One Form A

B: One Form B

**Coil Type:** D: Standard DC Coil

L: High Sensitivity DC Coil

**Coil Voltage:** 03: 3V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V, 48: 48V

**Number of Pole:** 1: One Pole

**Type of Sealing:** SS : RT II Flux Proofed Relays

SH : RT III Wash Tight Relays

**Type:** GZ

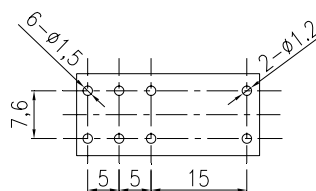
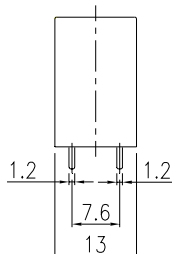
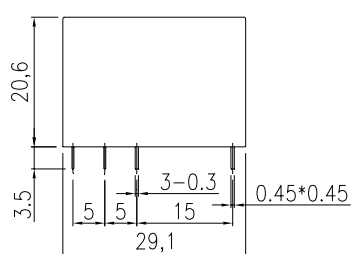
GZT

## Classification

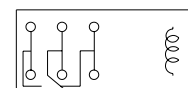
Model	GZ / GZT					
	Standard DC Coil			High Sensitivity DC Coil		
Coil Sensitivity						
Contact Form	1C	1A	1B	1C	1A	1B
Flux Proofed Relay	GZ-SS-1□□D	GZ (T)-SS-1□□DM	GZ-SS-1□□DB	GZ-SS-1□□L	GZ (T)-SS-1□□LM	GZ-SS-1□□LB
Wash Tight Relay	GZ-SH-1□□D	GZ (T)-SH-1□□DM	GZ-SH-1□□DB	GZ-SH-1□□L	GZ (T)-SH-1□□LM	GZ-SH-1□□LB

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

GZ

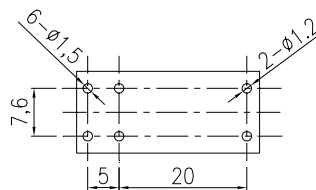
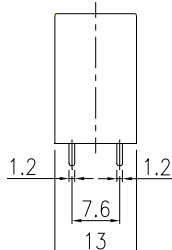
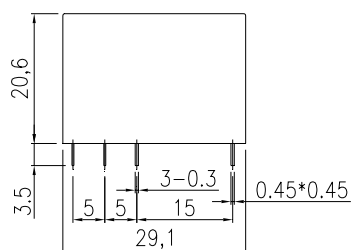


P.C.B. Layout

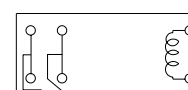


Bottom View

GZT



P.C.B. Layout



Bottom View