

● Features

- 15A switching capability
- 1 Form A and 1 Form C configurations
- Subminiature, standard PCB layout
- Plastic sealed and flux proofed types available
- Environmental friendly product (RoHS compliant)
- Dimensions: 19.0 x 15.2 x 15.5 mm



● Application

- Smart Home Solution / Home Appliance / Temperature Control / Industrial Control / Security System / Anti-Theft System, etc.

● Contact Data

Contact Arrangement	1A, 1C
Contact Material	Ag Alloy
Contact Rating	10A 250VAC / 30VDC TV-5 15A125VAC
Max. Switching Power	2500VA / 300W
Max. Switching Voltage	250VAC / 30VDC
Max. Switching Current	15A
Contact Resistance	$\leq 100\text{m}\Omega$
Electrical Endurance	1×10^5
Mechanical Endurance	1×10^7

● Coil Parameter

0.36W Type

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
3	3.9	25	2.25	0.30	0.36

● Coil Parameter

0.36W Type

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
5	6.5	70	3.75	0.50	0.36
6	7.8	100	4.50	0.60	
9	11.7	225	6.75	0.90	
12	15.6	400	9.00	1.20	
24	31.2	1600	18.0	2.40	
48	62.4	6400	36.0	4.80	

0.45W Type

Coil voltage (VDC)		Coil resistance ($\Omega \pm 10\%$)	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
3	3.9	20	2.25	0.30	0.45
5	6.5	55.6	3.75	0.50	
6	7.8	80	4.50	0.60	
9	11.7	180	6.75	0.90	
12	15.6	320	9.00	1.20	
24	31.2	1280	18.0	2.40	
48	62.4	5120	36.0	4.80	

● Operation Condition

Insulation resistance		100M Ω min (at 500VDC)
Dielectric strength	Between contacts	750V
	Between contact and coil	1500V
Vibration resistance		10~55Hz double amplitude 1.5mm

● Operation Condition

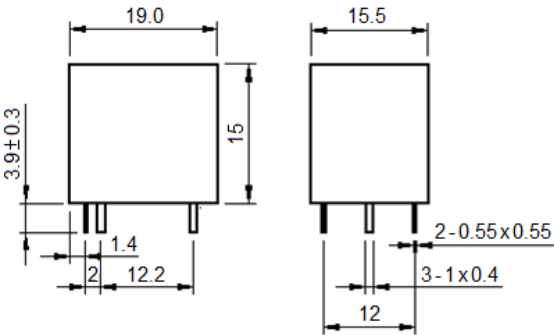
Shock resistance	Functional	98m/s ²
	Endurance	980m/s ²
Ambient temperature		-40~85℃
Operate time		≤ 10ms
Release time		≤ 5ms
Relative Humidity		5%~85%
Weight		Approx. 9.5g

● Ordering Information

			GF	-12D	45	-C	-S	(XXX)
Model								
Coil Voltage	3, 5, 6, 9, 12, 24, 48 VDC							
Coil Power	Nil: 360mW 45: 450mW							
Contact Arrangement	A: 1 Form A C: 1 Form C							
Construction	Nil: Flux tight S: Sealed							
Special Code	Nil: Standard XXX: Customer special requirement							

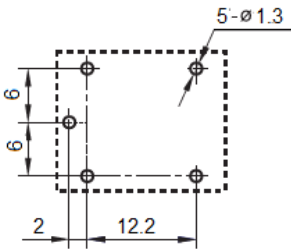
● Dimensions (UNIT: mm)

Outline Dimensions



Mounting

(Bottom views)



Wiring Diagram

(Bottom views)

