

## ● Features

- Quiet relay. Operation noise <45dB
- 20A 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: 22.3 x 16.5 x 16 mm



## ● Application

- Suitable for quiet working environment applications
- 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	20A / 15A 14VDC
Max. Switching Power	280W
Max. Switching Voltage	14VDC
Max. Switching Current	20A
Contact Resistance	≤ 100mΩ
Electrical Endurance	1x10 <sup>5</sup>
Mechanical Endurance	1x10 <sup>7</sup>

## ● Coil Parameter

Coil voltage (VDC)		Coil resistance ( $\Omega \pm 10\%$ )	Pickup voltage(max) (VDC)	Release voltage(min) (VDC)	Coil power consumption (W)
Rated	Max.				
6	7.8	64	3.5	0.75	0.57
12	15.6	254	6.9	1.5	
24	31.2	1000	14.0	3.0	

## ● Operation Condition

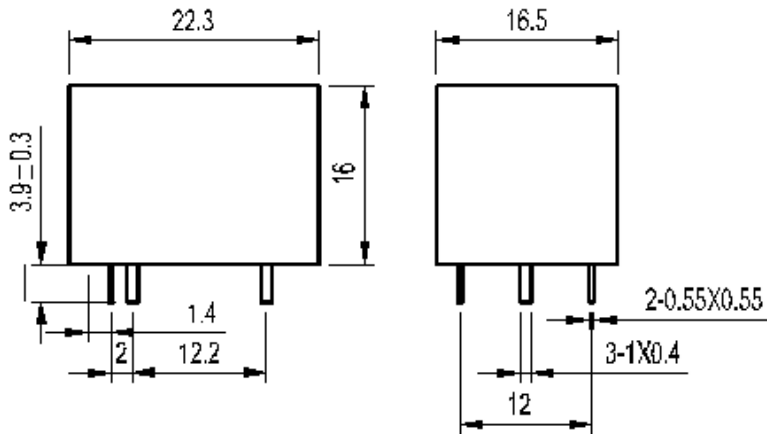
Insulation resistance		100M $\Omega$ min (at 500VDC)
Dielectric strength	Between contacts	500V
	Between contact and coil	500V
Shock resistance	Functional	98m/s <sup>2</sup>
	Endurance	980m/s <sup>2</sup>
Vibration resistance		10~55Hz double amplitude 1.5mm
Ambient temperature		-40~105 $^{\circ}$ C
Operate time		$\leq 3$ ms
Release time		$\leq 1.5$ ms
Relative Humidity		5%~85%
Weight		Approx. 9.5g

## ● Ordering Information

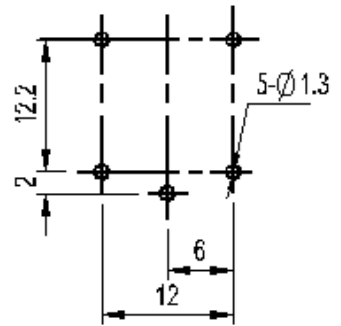
	GFQ	-12D	-C	-S	(XXX)
<b>Model</b>					
<b>Coil Voltage</b>	6, 12, 24 VDC				
<b>Contact Arrangement</b>	A: 1 Form A		C: 1 Form C		
<b>Construction</b>	Nil: Flux tight		S: Sealed		
<b>Special Code</b>	Nil: Standard		XXX: Customer special requirement		

● Dimensions (UNIT: mm)

Outline Dimensions



Mounting (Bottom views)



Wiring Diagram (Bottom views)

