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## General Relay I GF

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#### 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	$\leq$ 100m $\Omega$
Electrical Endurance	1x10 <sup>5</sup>
Mechanical Endurance	1x10 <sup>7</sup>

### • Coil Parameter (at 23°C)

Coil v	oltage	Coil	Pickup	Release	Coil Power
(VE	DC)	Resistance	Voltage(max)	Voltage(min)	Consumption
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)
3	3.9	25	2.25	0.30	0.36
5	6.5	70	3.75	0.50	0.30

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Coll Parameter (at 23 ()					
Coil voltage		Coil	Pickup	Release	Coil Power
(VDC)		Resistance	Voltage(max)	Voltage(min)	Consumption
Rated	Max.	(Ω±10%)	(VDC)	(VDC)	(W)
6	7.8	100	4.50	0.60	
9	11.7	225	6.75	0.90	
12	15.6	400	9.00	1.20	0.36
24	31.2	1600	18.0	2.40	
48	62.4	6400	36.0	4.80	

#### ■ Coil Parameter (at 23°C)

### Operation Condition

Insulation Resistance		100MΩ min (at 500VDC)	
Dielectric	Between Contacts	750V	
Strength	Between Contact and Coil	1500V	
Vibration Resistance		10~55Hz double amplitude 1.5mm	
Shock	Functional	98m/s²	
Resistance	Endurance	980m/s²	
Ambient Temperature		<b>-40~85</b> ℃	
Operate Time		≦10ms	
Release Time		≦5ms	
Relative Humidity		5%~85%	
Weight		Approx. 9.5g	

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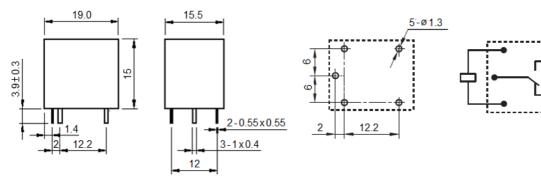
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#### Ordering Information GF -12D (XXX) -C -S Model **Coil Voltage** 3, 5, 6, 9, 12, 24, 48 VDC Contact A: 1 Form A C: 1 Form C Arrangement Construction Nil: Flux tight S: Sealed **Special Code** Nil: Standard XXX: Customer special requirement

 Dimensions (UNIT: mm) Outline Dimensions

Mounting (Bottom views)

Wiring Diagram (Bottom views)



- Remark: 1) In case of no tolerance shown in outline dimension: outline dimension  $\leq$  1mm, tolerance should be  $\pm$ 0.2mm; outline dimension >1mm and  $\leq$  5mm, tolerance should be  $\pm$ 0.3mm; outline dimension >5mm, tolerance should be  $\pm$ 0.5mm.
  - 2) The tolerance without indicating for PCB layout is always  $\pm 0.1$ mm.

#### Disclaimer

The specification is for reference only. See to"Terminology and Guidelines" for more information. Specifications subject to change without notice. We could not evaluate all the performance and all the parameters for every possible application. Thus the user should be in a right position to choose the suitable product for their own application. If there is any query, please contact IOEC for the technical service. However, it is the user's responsibility to determine which product should be used only.

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