

# G2F Series



## 3-10 Amp Miniature, PC Board Relay

UL File No.: E322513

TUV File No.: R50153265

- Designed to meet 4kv dielectric between coil and contacts.
- Sensitive and standard coils available.
- Immersion cleanable, sealed version available.

### Contact Data

Arrangements	1 Form A(SPST-NO)	
Material	Ag, Ag Alloy	
Initial Contact resistance (1A 6VDC)	100m_ @ 1A, 6VDC	
Minimum Load	100MmA @5VDC	
Max. Switching Rate	300ops/min(no load)	
	30ops/min(rated load)	
Max. Switched Voltage	AC: 265V	DC: 30V
Max. Switched Power	G2F-L:720VA,90W	
	G2F-LH:1,800VA,200W	
	G2F-D:1,200VA,150W	
	G2F-H:2,500VA,280W	
Life	Mechanical Life	1×10 <sup>7</sup>
	Electronical Life	5×10 <sup>4</sup>

### Coil Data

Nominal Power	G2F-L & LH:200mW
	G2F-D & H:450mW

### Operate Data

Operate Time	G2F-L: 15 ms max.	
	G2F-D and -H: 10ms max.	
Release Time	4ms max.	
Operating Humidity	20-85%RH	
Initial Dielectric Strength	Between Coil and Contacts	4,000VAC(50/60HZ) for 1 min
	Between Open Contacts	750VAC(50/60HZ) for 1 min.
Initial Insulation Resistance	1,000MΩ Min. (500VDCM)	
A(105 °C) Environmental Temperature	Operating, Class Insulation	G2F-L: -30°C ~ +80°C
	Operating, Class F (155 °C) Insulation	G2F-D7&-H: -30°C ~ +80°C
Shock	Mechanical	100G approximately
	Operational	10G approximately
Vibration	Mechanical	10 to 55Hz,1.5mm double amplitude.
	Operational	10 to 55Hz,1.5mm double amplitude.
Weight	9g approximately	

### Applications

- Appliance
- HVAC
- Industrial Control

### Ordering Information

<div style="display: flex; justify-content: space-around; align-items: center;"> <div style="border: 1px solid black; padding: 2px 10px;">G2F</div> <div style="border: 1px solid black; padding: 2px 10px;">12</div> <div style="border: 1px solid black; padding: 2px 10px;">L</div> <div style="border: 1px solid black; padding: 2px 10px;">v</div> <div style="border: 1px solid black; padding: 2px 10px;">F</div> <div style="border: 1px solid black; padding: 2px 10px;">,000</div> </div>					
Basic Series	Coil Voltage	Type	Enclosure	Insulation System	Suffix
G2F	05,06,09 12,24,48	L=Sensitive(200mW)Coil,3A Contacts LH=Sensitive(200mW)Coil,8A Contacts D=Standard(450Mw)Coil,5A Contacts H=Standard(450Mw)Coil,10A Contacts	V=Vented plastic cover S=Sealed plastic cover	Blank=Class A(105 °C ) F=Class F(155 °C )	,000=Standard model Other Suffix=Customer model

**Coil Data(20°C)**

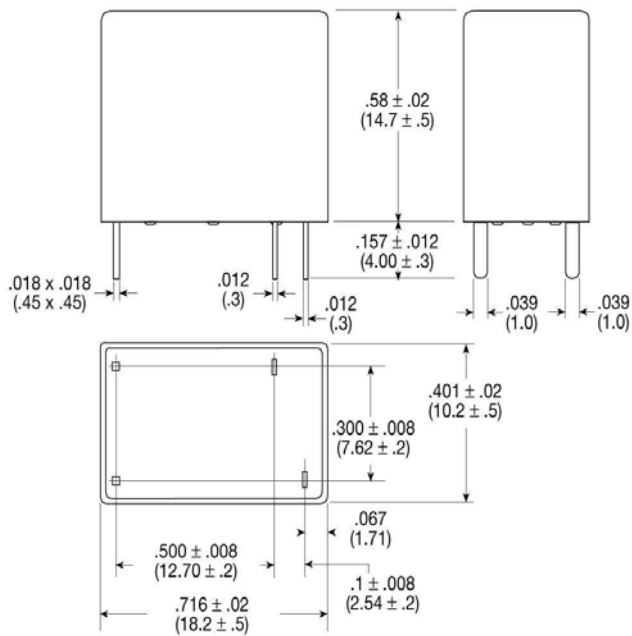
**G2F-D &-H Standard**

Voltage Code	Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Nominal Power (W)	Max. Coil Power
05	5	91.0	55	3.5	0.25	0.45	130% of nominal
06	6	75.0	80	4.2	0.30		
09	9	50.0	180	6.3	0.45		
12	12	37.5	320	8.4	0.60		
24	24	18.8	1,280	16.8	1.20		
48	48	9.4	5,100	33.6	2.40		

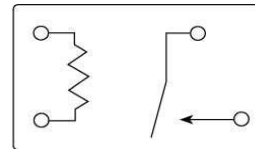
**G2F-L Sensitive**

Voltage Code	Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Nominal Power (W)	Max. Coil Power
05	5	40.0	125	3.75	0.25	0.2	130% of nominal
06	6	33.3	180	4.50	0.30		
09	9	22.5	400	6.75	0.45		
12	12	16.7	720	9.00	0.60		
24	24	8.6	2,800	18.00	1.20		

**Outline dimensions、 Wiring Diagram & PC Board Layout (mm)**



Wiring Diagram



PC Board Layout

