

# G6S Relays

- True surface mount, low signal relay
- Unique multi-bend lead frame design
- Exceptional, long term solder joint reliability by means of longer leads
- Excellent solderability
- Advanced sealability tested to +290° and beyond
- Constructed entirely of high-temp materials
- Proven thermal cycling performance
- High dielectric strength that meets with FCC Part 68 and Bellcore surge and isolation requirements

State-of-the-Art  
SMT Design  
Industry Standard



*For today's high-reliability  
switching applications*

Made in the

**U.S.A.**

See back for product data

## Ordering Information:

Part Number	Rated Voltage (VDC)	Coil Resistance (Ohms)	Power (mW)	Contact Form	Type	
<b>G6S-2F</b>	-DC4.5	4.5 DC	145	140	DPDT	<ul style="list-style-type: none"> <li>• Surface Mount</li> <li>• Gull-wing Terminals</li> <li>• Fully Sealed</li> </ul>
	-DC5	5 DC	178	140	DPDT	
	-DC12	12 DC	1,028	140	DPDT	
	-DC24	24 DC	2,880	200	DPDT	
<b>G6S-2G</b>	-DC4.5	4.5 DC	145	140	DPDT	<ul style="list-style-type: none"> <li>• Surface Mount</li> <li>• Inside "L" Terminals</li> <li>• Fully Sealed</li> </ul>
	-DC5	5 DC	178	140	DPDT	
	-DC12	12 DC	1,028	140	DPDT	
	-DC24	24 DC	2,880	200	DPDT	
<b>G6S-2</b>	-DC4.5	4.5 DC	145	140	DPDT	<ul style="list-style-type: none"> <li>• PCB Terminals</li> <li>• Fully Sealed</li> </ul>
	-DC5	5 DC	178	140	DPDT	
	-DC12	12 DC	1,028	140	DPDT	
	-DC24	24 DC	2,880	200	DPDT	

## Specs:

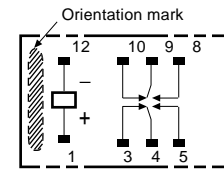
CONTACT DATA	
Contact ratings	0.5 A at 125 VAC 2 A at 30 VAC
Maximum operating voltage	250 VAC, 220 VDC
Carry current	2 A
Maximum operating current	2 A
Maximum switching capacity	62.5 VA, 60 W
Minimum permissible load	10 mVDC, 10 µA
COIL DATA	
Pickup voltage	75% max.
Dropout voltage	10% min.
Maximum voltage	200% at 23°C max.
CHARACTERISTIC DATA	
Initial contact resistance	75 mΩ max.
Operate time	4 ms max. (actual value: approx. 2.5 ms)
Release time	4 ms max. (actual value: approx. 1.5 ms)
Insulation resistance	1,000 MΩ min. (at 500 VDC)
Dielectric strength	2,000 VAC, 50/60 Hz for 1 minute between coil and contacts 1,500 VAC, 50/60 Hz for 1 minute between contacts of different poles 1,000 VAC, 50/60 Hz for 1 minute between contacts of same pole
Surge withstand voltage	2,500 V, 2 x 10 µS (conforms to Bellcore specs.) between coil and contacts and between contacts of different poles 1,500 V, 10 x 160 µS (conforms to FCC part 68) between contacts of same pole
Ambient temperature	-40° to 85°C
Service life	<i>Mechanical:</i> 100,000,000 operations min. (at operating frequency of 36,000 operations/hour) <i>Electrical:</i> 500,000 operations min. at 1A, 30 VDC
CONSTRUCTION DATA	
Termination	SMT gull-wing, SMT inside "L", PCB terminals
Construction	Fully-sealed
Weight	.07oz. (2g)
Packaging method	Tubes, tape & reel

## Cross Reference:

PART NUMBER	FTA			
Omron	Aromat	Fujitsu	Takamisawa	NEC
G6S-2-DC5 to 48	TX2-5V to 48V	FBR12ND05 to 48	NA-5 to 48W-K	EC2-5 to 48NU
G6S-2F-DC5 to 48	TX2SA-5V to 48V	-----	NAS-5 to 48W-K	EE2-5 to 48NU
G6S-2F-TR-DC5 to 48	TX2SA-5V to 48V-Z	FBR18ND05 to 48	-----	EE2-5 to 48NU-L
G6S-2G-DC5 to 48	TX2SS-5V to 48V	-----	-----	EE2-5 to 48NUN
G6S-2G-TR-DC5 to 48	TX2SS-5V to 48V-Z	FBR18ND05 to 48-M	-----	EE2-5 to 48NUN-L

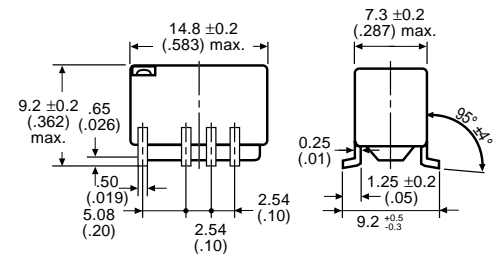
## Dimensions:

### Terminal Arrangement / Internal Connections

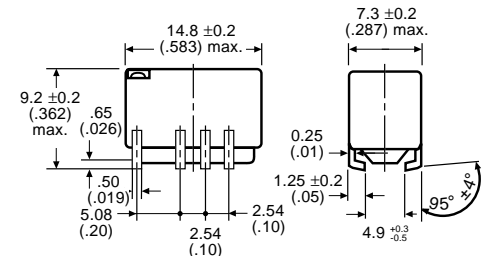


Top View

### G6S-2F



### G6S-2G



### G6S-2

