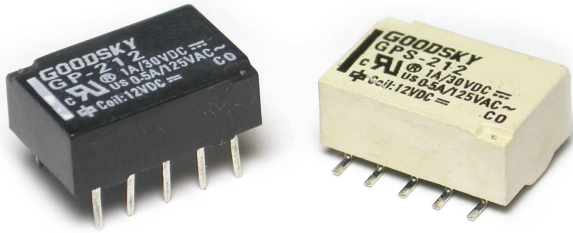


## Main Feature



1. Double-In-Line pitch terminals high sensitivity: 0.14W, 0.10W nominal power.
2. Conforms to FCC Part 68 1,500V Surge Strength and Dielectric Strength 1,000VAC.
3. Monostable or Bistable relays of single coil magnet latching type available.
4. Comply with RoHS and REACH regulations



## Contact Rating

Load Type	GP	GPS
Rated Load (Resistive)	0.5A 125VAC	0.5A 125VAC
	1A 30VDC	1A 30VDC
Rated Carrying Current	1A	1A
Max. Allowable Voltage	DC 30V	DC 30V
	AC 125V	AC 125V
Max. Allowable Current	1A	1A
Max. Allowable Power Force	62.5VA	62.5VA
	30W	30W
Min. Switching Load	DC 10mV, 1mA	DC 10mV, 1mA
Contact Material	Ag Alloy	Ag Alloy
Contact Form	DPDT	DPDT

## Application

Application for Telecommunication Equipment, Office Equipment, Security Alarm Systems, Measuring instruments, Medical Monitoring Equipment, Audio Visual Equipment, Flight Simulator, Sensor Control.

## Performance (at Initial Value)

- Contact Resistance ..... 50mΩ Max. @100mA, 6VDC
- Operate Time..... 3 mSec. Max.
- Release Time ..... 3 mSec. Max.
- Dielectric Strength:
  - Between Coil & Contact..... 1,000VAC at 50/60 Hz for one minute
  - Between Contacts..... 1,000VAC at 50/60 Hz for one minute
  - Between Contact Poles ..... 1,000VAC at 50/60 Hz for one minute
- Surge Strength..... 1,500V (between coil & contact 1x40 μ Sec.)
- Insulation Resistance ..... 100Mega Ω min. at 500VDC
- Max. On/Off Switching:
  - Electrical ..... 6 Cycles per Minute
  - Mechanical ..... 300 Cycles per Minute

- Temperature Range .....-40~+70°C
- Humidity Range.....45~85% RH.
- Coil Temperature Rise .....50°C Max.
- Vibration:
  - Endurance..... 10 to 55 Hz dual amplitude width 1.5mm
  - Error Operation ..... 10 to 55 Hz dual amplitude width 1.5mm
- Shock:
  - Endurance.....1,000 m/S<sup>2</sup>
  - Error Operation .....100 m/S<sup>2</sup>
- Life Expectancy:
  - Mechanical .....10<sup>8</sup> Operations at No Load condition
  - Electrical.....1A/30VDC: 2x10<sup>5</sup>
  - 0.5A/125VAC: 1x10<sup>5</sup> Operations at Rated Resistive Load
- Weight.....About 1.5 g

## Safety Standard & File Number

- UL & C-UL .....E141060

## Coil Specification (at 20 °C)

Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Maximum Allowable Voltage (VDC)	
GP/GPS (Single Side Stable)	3	46.7	64.3	Abt. 0.14	75% Maximum.	10% Minimum.	150%	
	4.5	31.1	145					
	5	28.0	178					
	6	23.3	257					
	9	15.5	579					
	12	11.7	1,028					
	24	8.3	2,880	Abt. 0.2				
Coil Sensitivity	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance ( $\Omega \pm 10\%$ )	Power Consumption (W)	Set Voltage (VDC)	Reset Voltage (VDC)		
GP/GPS (1Coil Latching)	3	33.3	90	Abt. 0.1	75% Maximum.	-75% Maximum.		
	4.5	22.2	203					
	5	20.0	250					
	6	16.7	360					
	9	11.1	810					
	12	8.3	1,440					
	24	6.3	3,840	Abt. 0.15				

## Ordering Information

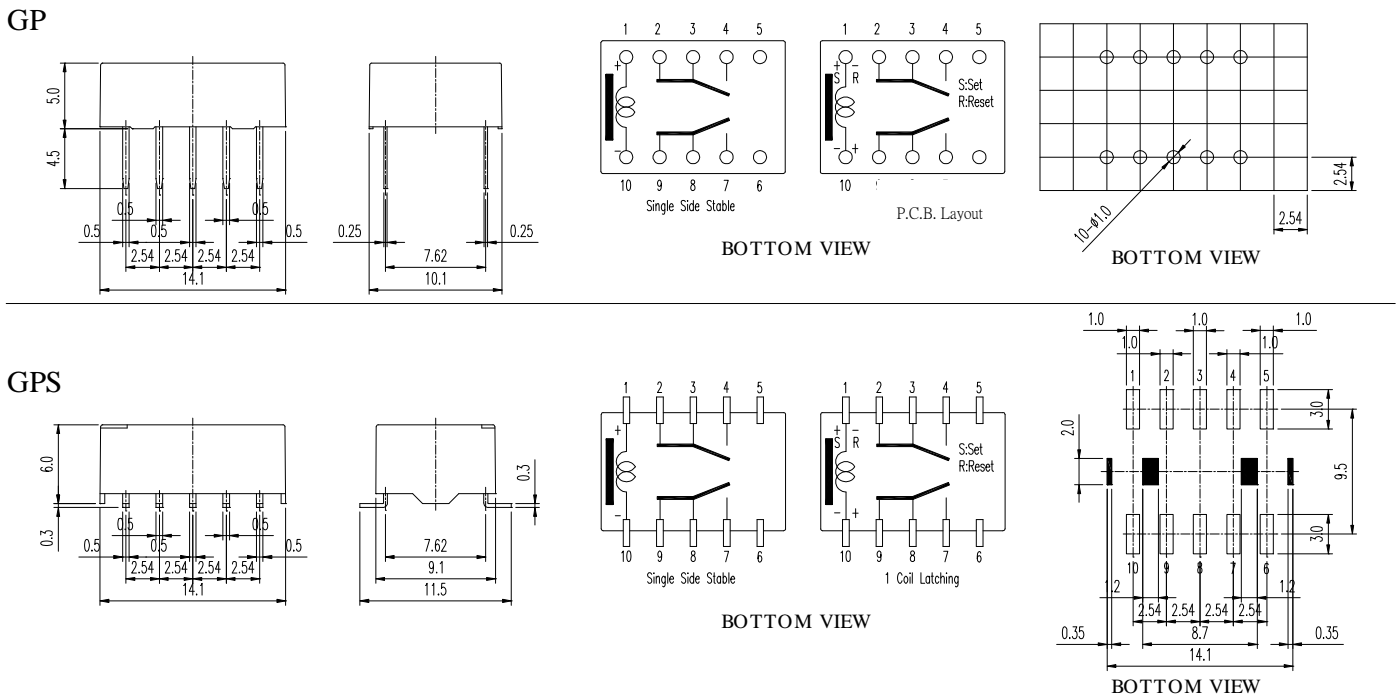
GP - L - 2 12

**Coil Voltage:** 03: 3V, 4.5: 4.5V, 05: 5V, 06: 6V, 09: 9V, 12: 12V, 24: 24V  
**Number of Pole:** 2: Two Poles  
**Coil Type:** Nil: Single Side Stable  
 L: 1 Coil Latching  
**Type:** GP: (PCB Terminal)  
 GPS: (SMD Terminal)

## Classification

Model	GP / GPS	
Contact Material	AgPd (Gold clad)	
Coil Type	Single Side Stable	1 Coil Latching
Ordering Type	GP/GPS-2□□	GP/GPS-L-2□□

Dimension ( $\leq 5\text{mm} \pm 0.2\text{mm}$ ,  $> 5\text{mm} \pm 0.3\text{mm}$ , the tolerance of PCB thru hole:  $+0.1\text{mm}$ )



V.01DS