

# Signal Relays



## SS03

Ultra High Sensitivity,  
High Reliability Bifurcated Contact Signal Relay

### Applications:

- Telecommunication Equipment
- Office Equipment
- Security Alarm Systems
- Measuring Instruments
- Medical Monitoring Equipment
- Audio / Visual Equipment
- Sensor Controls

### Features:

- Ultra High Sensitivity
- High Reliability Bifurcated Contact
- DIL Patch Terminals
- Washable / Immersion Cleanable
- Conforms to FCC Part 68 1500V Surge and Dielectric Strength 1000V<sub>AC</sub>
- UL / cUL E148480

### Contact Characteristics

<b>Arrangement</b>	2C
<b>Material</b>	Silver Palladium w/Gold Clad or Silver Nickel w/Gold Clad
<b>Rating</b>	1A @ 24V <sub>DC</sub> / 0.5A @ 120V <sub>AC</sub>
<b>Max. Switching Power</b>	30W or 125VA
<b>Max. Switching Voltage</b>	220V <sub>DC</sub> or 250V <sub>AC</sub>
<b>Max. Switching Current</b>	2A
<b>Min. Switching Load</b>	0.01mA @ 10mV
<b>Initial Resistance</b>	≤50mΩ

### General Characteristics

<b>Life</b> Mechanical Electrical	100,000,000 ops. 500,000 ops. (1A@24V <sub>DC</sub> and AgPd) 100,000 ops. (1A@24V <sub>DC</sub> and AgNi) 200,000 (0.5A@120V <sub>AC</sub> )
<b>Insulation Resistance</b>	1000MΩ @ 500V <sub>DC</sub> (Min.)
<b>Dielectric Strength</b> Contact-Contact Contact Pole-Pole Contact-Coil	1000V <sub>AC</sub> with 1500V Surge 1000V <sub>AC</sub> with 1500V Surge 1000V <sub>AC</sub> with 1500V Surge
<b>Electrostatic Capacitance</b> Contact-Contact Contact Pole-Pole Contact-Coil	0.7pF 0.9pF 1.0pF
<b>Shock Resistance</b> Functional Destructive	500m/s <sup>2</sup> (10G) 1000m/s <sup>2</sup> (100G)
<b>Vibration Resistance</b> Functional Destructive	1.5mm (2x Ampl. @ 10-55Hz) 5.0mm (2x Ampl. @ 10-55Hz)
<b>Operating Temperature</b>	-40 to +90°C -40 to +80°C* *(48V Ultra-Low Power Coil)
<b>Weight</b>	4.5g
<b>Operate Time</b> (Set and Reset)	≤2ms
<b>Release Time</b>	≤2ms



Stetron - USA  
☎: 716-854-3443  
Fax: 716-854-3448

Web site: [www.stetron.com](http://www.stetron.com)  
✉: [relays@stetron.com](mailto:relays@stetron.com)

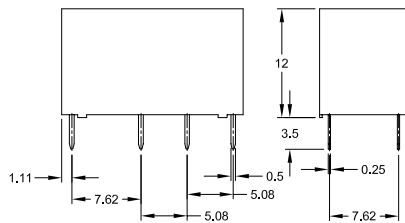
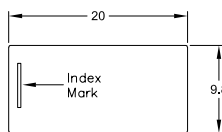
Stetron - Canada  
☎: 905-475-6202  
Fax: 905-475-1926

## Coil Characteristics Measured @ 25°C

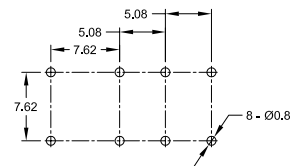
Coil Voltage [V <sub>DC</sub> ]		Coil Resistance [Ω ±10%]		Pull-in [V <sub>DC</sub> max]		Drop-out [V <sub>DC</sub> min]		
Rated	Maximum		Ultra-Low Power	Low Power	Ultra-Low Power	Low Power	Ultra-Low Power	Low Power
	Ultra-Low Power	Low Power						
3	7.5	6.5	60	45	2.1	2.1	0.15	0.3
5	12.5	10.8	167	125	3.5	3.5	0.25	0.5
6	15	13	240	180	4.2	4.2	0.3	0.6
9	22.5	19.5	540	405	6.3	6.3	0.45	0.9
12	30	26.5	960	720	8.4	8.4	0.6	1.2
18	40	-	1620	-	12.6	-	0.9	-
24	48	52.9	2880	2880	16.8	16.8	1.2	2.4
48	84.9	103.9	7680	11520	33.6	33.6	2.4	4.8

## Mechanical Data

**Dimensions**  
(all dimensions shown in millimeters)

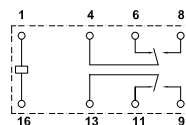


**PCB Layout**  
(bottom view)



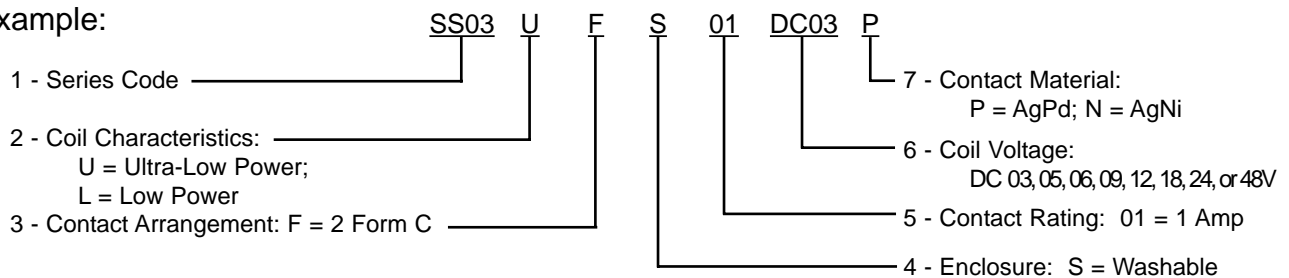
Tolerance +/- 0.1

**Schematic**  
(bottom view)



## PART NUMBER CODE

Example:



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 ☎: 716-854-3443  
 📠: 716-854-3448

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