SPDT Relay for Signal Circuits Ultra-miniature, Highly Sensitive

High sensitivity: 150mW nominal coil power.

Conforms to FCC Part 68 requirements for International 2.54mm terminal pitch.

୯୧ନ-ଏ	Fully sealed	(yollA uA) ĐA	Single crossbar	SPDT
	Structure	Contact material	Contact type	Contact form
leboM		noitsoi	Classif	

Note: When ordering, add the rated coil voltage to the model number. Example: G5V-1 12 VDC

1. Contact Form 1: SPDT

2. Rated Coil Voltage 3, 5, 6, 9, 12, 24 VDC

10% min. of rated voltage 80% max. of rated voltage 6.03 14.0 0.29 ۲۲.(۶9.9 £9.1 90.0 3.48 6.85 S⊅.0 0.20 0.1E 3,840 Ω 096 შ Q40 Q 540 🛛 ଅ 781 Q 08 Am 25.8 Am 8.St Am 7.81 Am 2S Am 05 Am 0d 54 ADC 15 ADC 9 ADC 6 ADC 2 ADC ٨DC

Wm 051 .xorqq 200% of rated voltage at 23°C

1 A, 30 VDC (resistive load) 0.5 A, 125 VPC (general use) 0.3 A, 110 VDC (resistive load) 3 to 24 VDC SPDT GeV-1 Contact ratings Coil ratings Contact form leboM

UL (File No. E41515)/CSA C22.2 No.0, No.14 (File No. LR31928) Approved Standards

between contacts with the same polarity applied to the same parts as those used for checking the dielectric strength. 2. Values in parantheses are actual values. 3. The insulation resistance was measured with a 500VDC megohmeter between coil and contacts with a 250VDC megohmeter 3. The insulation resistance measured with a 500VDC megohmeter petween coil and contacts with a 250VDC megohmeter

Note: 1. The contact resistance was measured wih 10mA at 1VDC with a voltage drop method.

theight	g S.xorgqA
Vtibimud tneidmA	Operating: 5% to 85%
Ambient temperature	Operating: -40°C to 70°C (with no icing)
Endurance	Mechanical: 5,000,000 operations min. (at 18,000 operations/hr) Electrical: 100,000 operations min. (under rated load, at 1,800 operations/hr)
Shock resistance	Destruction: 1,000 m/s ² Malfunction: 100 m/s ²
Vibration resistance	Destruction: 10 to 55 to 10 Hz, 1.65mu single amplitude (3.3mm double amplitude) Malfunction: 10 to 55 to 10 Hz, 1.65mu single amplitude (3.5mm double amplitude)
epetiov bristantiw eslugmi	(86 hs 10C Part 60 V 002, t continuous) stasting the root of the term of term
Dielectric strength	1,000 VPC, 50/60 Hz for 1 min between coil and contacts 400 VPC, 50/60 Hz for 1 min between contacts of same polarity
Insulation resistance (see note 2)	$1,000~{\rm M}\Omega$ min. (at 500 VDC between coil and contacts, at 250 VDC between contacts of same polarit
Max. operating frequency	Mechanical: 36,000 operations/hr Electrical: 1,800 operations/hr at rated load
Release time (see note 2)	5 ms. (mean value: approx. 0.9 ms). zam am 5
Operate time (see note 2)	5 ms max. (mean value: approx. 2.5 ms)
Contact resistance (see note 1)	100 mg max.

Characteristics

conditions.

■ Contact Ratings

PCB Signal Relay – G5V-1

₿₽

This value was measured at a switching trequency of 120 operations/min and the criterion of contact resistance is 100. This value may valve may be preding on the operating environment. Always double-check relay suitability under actual operating conditions of operating environment.

-uoita-
The st 5 VDC
W 0£ ,AV 3.6
A f
125 VAC, 60 VDC
A 2
(yolls uA) pA
0.5 A 8t 125 VAC; 1 A 8t 24 VDC
$f = \phi soad (cosq f = 1)$

PCB Signal Relay – G5V-1

- ROHS compliant.
- .(H × W × J) mm 01 x 2.7 x 2.21 ts autsinim-mtlU
- Wide switching power of 1 m to 1 A.
- Fully sealed construction.
- coil to contacts.

Ordering Information

Model Number Legend

1 5 G5V - 🗌 🗍 VDC

■ Coil Ratings Specifications -

A	uoitar	Power consum
2		Aax. voltage
L	Must release voltage	
8	Must operate voltage	
0	NO enuterrnA	(H) (ref. value)
0	Armature OFF	Soil inductance
9		Coil resistance
G		Rated current
6		Rated voltage

 ${\bf 3.}$ The maximum voltage is the highest that can be imposed on the relay coil. Note: 1. The rated current and coil resistance are measured at a coil temperature of 23°C with a tolerance of ±10%. 2. Operating characteristics are measured at a coil temperature of 23°C.

98 L

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98 L





The maximum coil voltage refers to the maxi-mum value in a varying range of operating power voltage, not a continuous voltage.





Relay Handling

cold cleaning bath immediately after soldering. solvent temperature to less than $40\infty C.$ Do not put the Relay in a a water-based solvent or alcohol-based solvent, and keep the When washing the product after soldering the Relay to a PCB, use

protection against contact failure or coil burnout. will affect the insulation, causing a film to develop on the contact surfaces. Be sure to use a fail-safe circuit design that provides unstable contacts, because the heat generated by the coil itself continuously for long periods (without switching) can lead to Using the Relay in a circuit where the Relay will be ON Long-term Continuously ON Contacts

6. Special Function P: Straight PCB C: Curved tail 5. Terminals 4: Fully sealed 3' 2' 6' 6' 15' 54' 48 ADC Enclosure Ratings 9. Rated Coil Voltage AgNi (Au-clad) contact U: For ultrasonically cleanable 9: Bifurcated crossbar US: UL, CSA certified8. Special Function 3: Bifurcated crossbar Ag (Au-clad) contact 7. Approved Standards

L: Low sensitivity coil (400 mW)

PCB Signal Relay - G6E

Signal Switching Relay Sub-miniature, Sensitive SPDT

- ROHS compliant.
- High sensitivity: 98mW pickup coil power.
- requirements. Impulse withstand voltage meets FCC Part 68
- Fully sealed construction.
- size, magnetic interference, and contact Unique moving loop armature reduces relay
- also available. seqvt gnidotal gnibniw-elduob bna -elgni2 bounce time.

Ordering Information –

nal Gingle-side stable Single-winding latching Double-winding latching nal G6EV-134P-US G6EV-134P-US G6EV-134P-US	Terminal Straight termina	t form Bifurcated	Contac SPDT
^{USI} G6E-134P-US G6EU-134P-US G6EK-134P-US	Straight termina	Bifurcated	SPDT
		1 .	
G6E-134C-02 G6E0-134C-02 G6EK-134C-02	Self-clinching terminal	clossbar	

When ordering, add the race. Example: G4A-1A-E 12 VDC Note: When ordering, add the rated coil voltage to the model number.

Model Number Legend



681

BK

PCB Signal Relay – G5V-1

Engineering Data -

(V) egettov gninttive

- snoisnemiD

2. Numbers in parentheses are reference values. Note: 1. All units are in millimetres unless otherwise indicated.

3. Tolerance: ±0.1



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Precautions -

88 F CAT. No. K048-E2-02A-X

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