

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PCB Relay

Slim Relay capable of switching up to 5 A, Ideal for use In Air Conditioners, Water Heaters, and Small Electrical Appliances

- Economical slim relay ideal for high density mounting
- Low power consumption (200mW)
- 10-kV impulse withstand voltage (between coil and contacts)
- UL recognized / CSA certified. VDE Approved.
- Tracking Resistance: CTI ≥ 250 V
- RoHS compliant



Ordering Information

■ List of Models

Models	Enclosure rating	Contact form
G5T-1A	Flux protection	SPST-NO

Note: When ordering, add the rated coil voltage to the model number.

Example: G5T-1A DC 24

Rated coil voltage

Model Number Legend

G5T-
$$\square$$
 DC \square

1. Number of Poles

1: 1pole

2. 2. Contact Form

A: SPST-NO

3. 3. Rated Coil Voltage

5, 12, 24

Specifications @ 23°C (coil resistance ± 10%)

■ Coil Ratings

Rated voltage (VDC)	Rated current (mA)	Coil resistance (Ω)	Pick-up voltage	Dropout voltage	Maximum voltage	Power consumption (mW)
5	40	125	75% max.	5% min.	110%	Approx. 200
12	16.7	720				
24	8.3	2880				

■ Contact Ratings

Rated load (resistive)	5 A at 250 VAC 5 A at 30 VDC
Rated carry current	5 A
Max. switching voltage	250 VAC, 30 VDC
Max. switching current	5 A
Max. switching capacity	1250 VA, 150 W
Minimum Permissible Load*	10 mA at 5 VDC

^{*}P level: λ_{60} = 0.1 X 10⁻⁶/operation

■ Characteristics

Contact resistance		100 m Ω max. (measured by voltage drop method using 1 A @ 5 VDC)	
Operate time		10 ms max.	
Release time		10 ms max.	
Insulation resistance		1,000 MΩ min. (at 500 VDC)	
Dielectric strength		4,000 VAC, 50/60 Hz for 1 min. between coil and contacts 750 VAC, 50/60 Hz for 1 min. between contacts of same polarity	
Vibration resistance Destruction Malfunction		10 to 55 Hz, 1.5 mm double amplitude	
		10 to 55 Hz, 1.5 mm double amplitude	
Shock resistance	Destruction	1,000 m/s ² (approx.100 G)	
	Malfunction	100 m/s ² (approx. 10 G)	
Service Life Mechanical Electrical (resistive load)		2,000,000 operations min. (at 18,000 operations/hr)	
		100,000 operations min. (3 A at 250 VAC, 30 VDC) 30,000 operations min. (5 A at 250 VAC, 30 VDC) (at 1,800 operations/hr)	
Ambient operating temperature -40°C to 70°C (with no icing or condensation)		-40°C to 70°C (with no icing or condensation)	
Ambient operating humidity		5% to 85%	
Weight		Approx. 3 g	

Note: 1. Data shown above are of initial value.

■ Approvals

UL Recognized (File No. E41515) / CSA Certified (File No. 1527954) - - Ambient Temp. = 40°C

Model	Coil rating	Contact rating
G5T-1A		5 A, 250 VAC (resistive), 6,000 cycles 5 A, 30 VDC (resistive), 6,000 cycles

VDE0435 🏝 (EN61810-1)

Model	Coil rating	Contact rating
G5T-1A	, ,	5 A, 250 VAC ($\cos\phi = 1$) 10,000 cycles 5 A, 30 VDC ($L/R = 0$ ms) 10,000 cycles 3 A, 250 VAC ($\cos\phi = 1$) 100,000 cycles

CQC (license No. 04001010419)

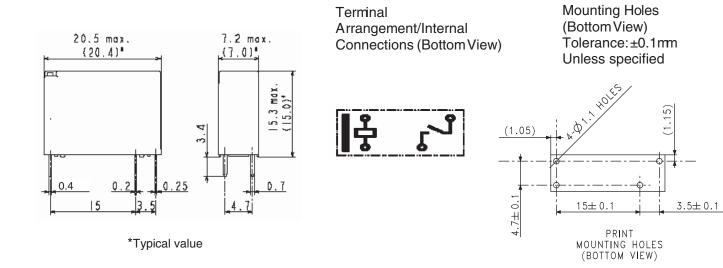
Model	Coil rating	Contact rating
G5T-1A		5 A, 250 VAC resistive,10,000 cycles 5 A, 30 VAC resistive,10,000 cycles

^{2.} Please avoid ultrasonic cleaning this relay.

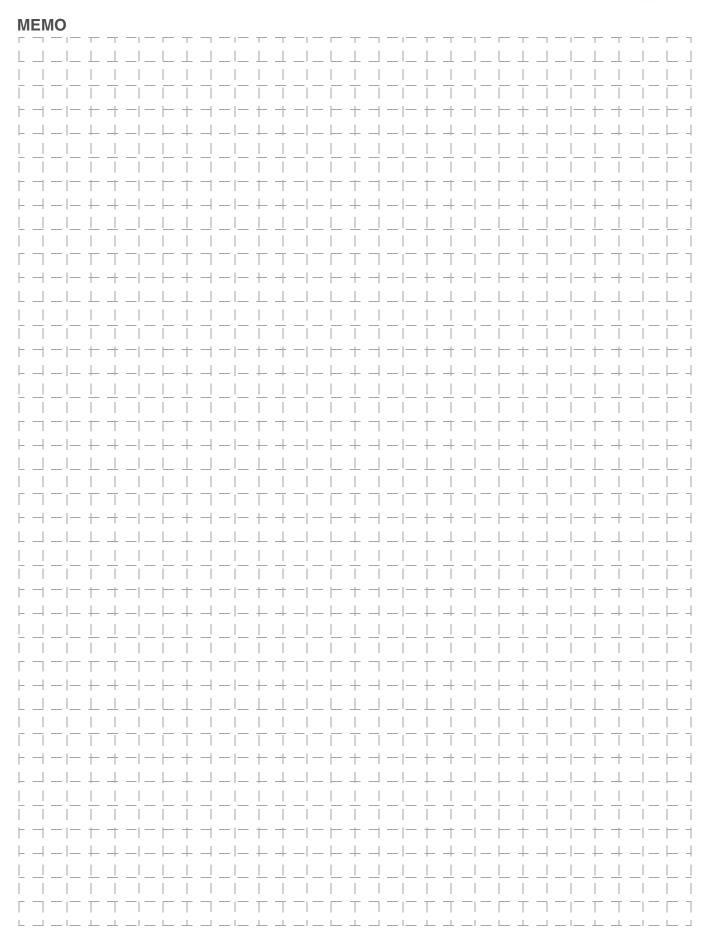
Dimensions

Note: All units are in millimeters unless otherwise indicated.

G5T-1A







Omron Electronic Components, LLC

Terms and Conditions of Sales

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Definitions: The words used herein are defined as follows.

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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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