OMRON

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 $\geq 250~V$
- 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



- 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 10 to 55 Hz, 1.5 mm double amplitu		10 to 55 Hz, 1.5 mm double amplitude			
	Malfunction	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	2,000,000 operations min. (at 18,000 operations/hr)			
	Electrical (resistive load)	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 ter	nperature	-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.

2. Please avoid ultrasonic cleaning this relay.

■ 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 (cosφ = 1) 10,000 cycles 5 A, 30 VDC (L/R = 0 ms) 10,000 cycles 3 A, 250 VAC (cosφ = 1) 100,000 cycles

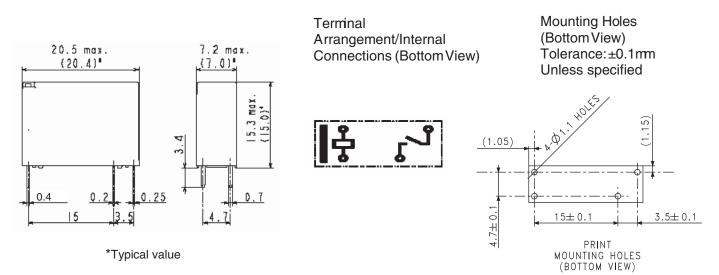
CQC (license No. 04001010419)

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

Dimensions

Note: All units are in millimeters unless otherwise indicated.

G5T-1A



OMRON

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Omron Electronic Components, LLC

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- 5.
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ALL DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.



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