

OMRON Low Signal Relays

OMRON G5V-1 & G5V-13 SERIES: 1A SPDT SMALL LOW SIGNAL RELAYS

Specifications:

- Contact resistance: 100mΩ max.
- Contact material: Ag (Au clad)
- Power consumption: 150mW

Features:

- Ultra-miniature, highly sensitive relay for signal circuits
- High sensitivity: 150mW nominal power consumption
- Wide switching power of 1mA to 1A
- Conforms to FCC part 68 requirements for coil to contacts.
- Fully-sealed construction
- Ideal for use in telecommunications, security, and computer/peripheral equipment



* 2% pickup voltage

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Current (mA)	Coil (VDC)	Coil Resistance (Ω)	Price Each			
						1	25	50	100
Single Contact - Minimum Permissible Load DC5V, 1mA									
653-G5V-1-DC3	G5V-1-DC3	A1	50.0	3	60.0	1.65	1.55	1.38	1.31
653-G5V-1-DC5	G5V-1-DC5	A1	30.0	5	166.7	1.85	1.80	1.66	1.52
653-G5V-1-DC6	G5V-1-DC6	A1	25.0	6	240.0	1.94	1.82	1.72	1.63
653-G5V-1-DC9	G5V-1-DC9	A1	16.7	9	540.0	1.94	1.82	1.63	1.54
653-G5V-1-DC12	G5V-1-DC12	A1	12.5	12	960.0	1.94	1.82	1.63	1.54
* 653-G5V-1-2DC12	G5V-1-2 DC12	A1	12.5	12	960.0	2.42	2.25	2.01	1.81
653-G5V-1-DC24	G5V-1-DC24	A1	6.3	24	3840.0	1.97	1.85	1.72	1.57
Double Contact - Minimum Permissible Load DC100mV, 100uA									
653-G5V-13DC3	G5V-13DC3	A1	50.0	3	60.0	2.09	1.91	1.76	1.63
653-G5V-13DC5	G5V-13DC5	A1	30.0	5	167.0	2.64	2.22	2.17	1.82
653-G5V-13-DC12	G5V-13-DC12	A1	12.5	12	960.0	3.19	2.84	2.59	2.28
653-G5V-13-DC24	G5V-13-DC24	A1	3.25	24	3840.0	3.19	2.84	2.59	2.28

OMRON G5V-2 SERIES: 2A DPDT GENERAL USAGE LOW SIGNAL RELAYS

Specifications:

- Contact resistance: 50mΩ max.
- Power consumption: Standard type 500mW, High-sensitivity type 360mW, Ultra-sensitive type 150mW

Features:

- Miniature relay for signal circuits
- Suitable for handling low signals in computer peripherals, telecommunications and security equipment
- Capable of switching loads 10uA to 2A
- Conforms to FCC part 68: 1500V surge withstand
- Reliable Ag + Au-clad, bifurcated crossbar contacts
- Fully-sealed construction



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MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Current (mA)	Coil (VDC)	Coil Resistance (Ω)	Price Each			
						1	25	50	100
Standard Type									
653-G5V-2-DC3	G5V-2-DC3	B2	166.70	3	18.0	2.27	2.15	1.90	1.72
653-G5V-2-DC5	G5V-2-DC5	B2	100.00	5	50.0	2.13	2.00	1.89	1.79
653-G5V-2-DC6	G5V-2-DC6	B2	83.30	6	72.0	2.63	2.53	2.24	2.02
653-G5V-2-DC9	G5V-2-DC9	B2	55.60	9	162.0	1.82	1.67	1.55	1.50
653-G5V-2-DC12	G5V-2-DC12	B2	41.70	12	288.0	2.02	1.90	1.80	1.71
653-G5V-2-DC24	G5V-2-DC24	B2	20.80	24	1152.0	2.02	1.90	1.80	1.71
653-G5V-2-DC48	G5V-2-DC48	B2	12.00	48	4000.0	2.81	2.71	2.50	2.30
High-Sensitivity Type									
653-G5V-2-H-DC5	G5V-2-H-DC5	B2	30.00	5	166.7	2.18	2.05	1.93	1.83
653-G5V-2-H-DC9	G5V-2-H-DC9	B2	16.70	9	540.0	2.47	2.30	2.18	2.05
653-G5V-2-H-DC12	G5V-2-H-DC12	B2	12.50	12	960.0	2.17	2.05	1.93	1.83
653-G5V-2-H-DC24	G5V-2-H-DC24	B2	8.33	24	2880.0	2.61	2.45	2.31	2.19
Ultra-Sensitive Type									
653-G5V-2-H1-DC5	G5V-2-H1-DC5	B2	30.00	5	166.7	2.49	2.05	1.94	1.73
653-G5V-2-H1-DC9	G5V-2-H1-DC9	B2	16.70	9	540.0	3.03	2.45	2.33	2.08
653-G5V-2-H1-DC12	G5V-2-H1-DC12	B2	12.50	12	960.0	3.01	2.91	2.52	2.27
653-G5V-2-H1-DC24	G5V-2-H1-DC24	B2	8.33	24	2880.0	2.76	2.45	2.33	2.08
653-G5V-2-H1-DC48	G5V-2-H1-DC48	B2	6.25	48	7680.0	2.78	2.61	2.33	2.09

OMRON G6L SERIES: 1A SPST-NO LOW PROFILE LOW SIGNAL RELAYS

Specifications:

- Contact resistance: 100mΩ max.
- Max. switching current: 1A
- Power consumption: 180mW

Features:

- Extremely thin and flat relay, one of the thinnest relays in the world
- Uses 20% less mounting area and 67% less volume in comparison with the G5V-1 relay
- High dielectric strength: 1000VAC between coil and contacts and 750VAC between contacts of the same polarity
- Conforms to FCC part 68



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MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Current (mA)	Coil (VDC)	Coil Resistance (Ω)	Price Each			
						1	25	50	100
Standard Type									
653-G6L-1F-DC3	G6L-1F-DC3	C3	60.0	3	50.0	2.47	2.22	1.97	1.78
653-G6L-1F-DC4.5	G6L-1F-DC4.5	C3	40.0	4.5	112.5	2.96	2.66	2.36	2.13
653-G6L-1F-DC5	G6L-1F-DC5	C3	36.0	5	139.0	2.01	1.81	1.62	1.45
653-G6L-1F-DC12	G6L-1F-DC12	C3	15.0	12	800.0	2.18	1.96	1.76	1.57
653-G6L-1F-DC24	G6L-1F-DC24	C3	9.6	24	2504.0	3.01	2.71	2.40	2.16
High-Sensitivity Type									
653-G6L-1P-DC3	G6L-1P-DC3	D3	60.0	3	50.0	2.74	2.46	2.19	1.97
653-G6L-1P-DC4.5	G6L-1P-DC4.5	D3	40.0	4.5	112.5	1.90	1.81	1.77	1.68
653-G6L-1P-DC5	G6L-1P-DC5	D3	36.0	5	139.0	2.28	2.05	1.62	1.45
653-G6L-1P-DC12	G6L-1P-DC12	D3	15.0	12	800.0	2.01	1.81	1.62	1.46
653-G6L-1P-DC24	G6L-1P-DC24	D3	9.6	24	2504.0	2.18	1.96	1.76	1.57

