

OMRON Power PCB Relays



OMRON G2RL-TP SERIES: HIGH TEMPERATURE APPLICATION POWER PCB RELAYS

- Features:**
- Low profile for total size reduction
 - Simplified and efficient harnessing with quick-connect terminals

- Specifications:**
- Switching Capacity: 16A @250VAC@105°C
 - Contact Rating: 16A @ 250VAC



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part Number	Fig.	Contact Form	Rated Coil Voltage	Rated Coil Current	Terminal Pitch	Price Each			
							1	25	50	100
653-G2RL1ATP7EDC12	G2RL-1ATP7-E-DC12	A1	SPST-NO	12VDC	33.3mA	7mm	5.16	4.65	4.13	3.71

OMRON G2RL SERIES: LOW PROFILE POWER PCB RELAYS

- Contact rating: 1-pole - 12A @ 250VAC/24VDC; 2-pole - 8A @ 250VAC/30VDC
- Contact material: 1-pole - AgSnO, 2-pole - AgNi
- Power consumption: 400mW - 5, 12, 24VDC; 430mW - 48VDC
- Class F coil insulation



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MOUSER STOCK NO.	Omron Part Number	Fig.	Contact Form	Rated Coil Voltage	Rated Coil Current	Price Each				
						1	25	50	100	
General Purpose, Flux Protection										
653-G2RL-1-DC12	G2RL-1-DC12	B2	SPDT	12VDC	33.33mA	1.88	1.76	1.70	1.60	
653-G2RL-2-DC5	G2RL-2-DC5	B3	DPDT	5VDC	80.0mA	2.32	2.20	2.06	2.01	
653-G2RL-2-DC12	G2RL-2-DC12	B3	DPDT	12VDC	33.33mA	2.32	2.20	2.06	2.01	
653-G2RL-2-DC24	G2RL-2-DC24	B3	DPDT	24VDC	16.7mA	2.32	2.20	2.06	2.01	
653-G2RL-1A-DC5	G2RL-1A-DC5	B4	SPST-NO	5VDC	80mA	1.84	1.74	1.63	1.50	
653-G2RL-1A-DC12	G2RL-1A-DC12	B4	SPST-NO	12 VDC	33.33 mA	1.84	1.74	1.63	1.50	
653-G2RL-1A-DC24	G2RL-1A-DC24	B4	SPST-NO	24 VDC	16.7 mA	1.84	1.74	1.63	1.50	
General Purpose, Fully Sealed										
653-G2RL-14-DC5	G2RL-14-DC5	B2	SPDT	5VDC	80mA	2.08	1.97	1.85	1.80	
653-G2RL-14-DC12	G2RL-14-DC12	B2	SPDT	12VDC	33.33mA	2.08	1.97	1.85	1.80	
653-G2RL-14-DC24	G2RL-14-DC24	B2	SPDT	24VDC	16.7mA	2.08	1.97	1.85	1.80	
653-G2RL-14DC48	G2RL-14-DC48	B2	SPDT	48VDC	8.96mA	2.32	2.19	2.06	1.75	
653-G2RL-24-DC5	G2RL-24-DC5	B3	DPDT	5VDC	80mA	3.00	2.84	2.67	2.60	
653-G2RL-24-DC24	G2RL-24-DC24	B3	DPDT	24VDC	16.7mA	3.00	2.84	2.67	2.60	
653-G2RL-24-DC12	G2RL-24-DC12	B3	DPDT	12VDC	33.33mA	3.00	2.84	2.67	2.60	
653-G2RL-1A4-DC12	G2RL-1A4-DC12	B4	SPST-NO	12VDC	33.33mA	2.50	2.31	1.96	1.82	
High-Capacity, Flux Protection										
653-G2RL-1-E-DC12	G2RL-1-E-DC12	B5	SPDT	12VDC	33.33mA	2.60	2.38	2.35	2.27	
653-G2RL-1-E-DC24	G2RL-1-E-DC24	B5	SPDT	24VDC	16.7mA	2.08	1.97	1.85	1.80	
653-G2RL-14-E-DC5	G2RL-14-E-DC5	B5	SPDT	5 VDC	80.0 mA	2.43	2.30	2.16	2.11	
653-G2RL-1A-E-DC12	G2RL-1A-E-DC12	B6	SPST-NO	12VDC	33.33mA	1.88	1.80	1.69	1.65	
653-G2RL-1A4E-DC24	G2RL-1A4-E-CF-DC24	B6	SPST-NO	24 VDC	16.7 mA	2.46	2.33	2.19	2.14	
High-Sensitivity, Flux Protection										
653-G2RL1HDC5	G2RL-1-H-DC5	B2	SPDT	5VDC	50mA	2.68	2.53	2.38	2.32	
653-G2RL1HDC9	G2RL-1-H-DC9	B2	SPDT	9VDC	27.8mA	2.68	2.53	2.38	2.32	
653-G2RL1HDC12	G2RL-1-H-DC12	B2	SPDT	12VDC	20.8mA	2.68	2.53	2.38	2.32	
653-G2RL1HDC24	G2RL-1-H-DC24	B2	SPDT	24VDC	10.4mA	2.68	2.53	2.38	2.32	

OMRON G5RL SERIES: SINGLE-POLE, 16-A POWER PCB RELAYS

- Contact Rating: High-Capacity 16A; Standard 12A
- Clearance and creepage distance:
 - Between coil and contacts: 8mm/8mm
 - Between contacts of the same polarity: 3mm/4mm
- Inrush peak currents up to 100A (DC models only)
- High Capacity - Class F
- Flux Protection



*Rated Coil Current @ 60Hz

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MOUSER STOCK NO.	Omron Part Number	Fig.	Contact Form	Rated Coil Voltage	Rated Coil Current	Price Each				
						1	25	50	100	
High-Capacity, AC Coil										
*653-G5RL-1E-AC24	G5RL-1-E-AC24	C5	SPDT	24VAC	28.3mA	5.75	5.18	4.60	4.14	
*653-G5RL-1E-AC120	G5RL-1-E-AC115/120	C5	SPDT	120VAC	5.35/5.70mA	5.49	5.28	5.17	4.88	
*653-G5RL-1E-AC240	G5RL-1-E-AC230/240	C5	SPDT	240VAC	2.76/2.88mA	10.49	9.41	8.87	8.25	
High-Capacity, High-Inrush										
653-G5RL-1AEHR-DC5	G5RL-1A-E-HR-DC5	C5	SPST-NO	5VDC	80mA	2.95	2.72	2.44	2.20	
653-G5RL-1AEHR-DC12	G5RL-1A-E-HR-DC12	C5	SPST-NO	12VDC	33.3mA	2.95	2.72	2.45	2.20	
653-G5RL-1AEHR-DC24	G5RL-1A-E-HR-DC24	C5	SPST-NO	24VDC	16.7mA	2.81	2.54	2.25	2.03	
653-G5RL-1-E-HR-DC5	G5RL-1-E-HR-DC5	C5	SPDT	5VDC	80.0mA	2.85	2.62	2.38	2.22	
653-G5RL-1-E-HR-DC12	G5RL-1-E-HR-DC12	C5	SPDT	12VDC	33.3mA	2.85	2.62	2.38	2.22	
653-G5RL-1-E-HR-DC24	G5RL-1-E-HR-DC24	C5	SPDT	24VDC	16.7mA	2.85	2.62	2.38	2.22	
Standard, Low Noise										
653-G5RL-1A-LN-DC5	G5RL-1A-LN-DC5	C5	SPST-NO	5VDC	106.0mA	3.05	2.87	2.79	2.65	
653-G5RL-1A-LN-DC12	G5RL-1A-LN-DC12	C5	SPST-NO	12VDC	44.2mA	3.05	2.87	2.79	2.65	
653-G5RL-1A-LN-DC24	G5RL-1A-LN-DC24	C5	SPST-NO	24VDC	22.1mA	3.05	2.87	2.79	2.65	
High-Capacity, Low Noise										
653-G5RL-1A-E-LN-DC5	G5RL-1A-E-LN-DC5	C5	SPST-NO	5VDC	106.0mA	3.05	2.87	2.79	2.65	
653-G5RL-1A-E-LNDC12	G5RL-1A-E-LN-DC12	C5	SPST-NO	12VDC	44.2mA	3.05	2.87	2.79	2.65	
653-G5RL-1A-ELNDC24	G5RL-1A-E-LN-DC24	C5	SPST-NO	24VDC	22.1mA	3.05	2.87	2.79	2.65	

OMRON G5SB SERIES: COMPACT POWER PCB RELAYS

- Contact rating: 5A (NO) 3A (NC)
- Power consumption: 400mW
- Impulse withstand voltage: 8,000V between coil and contacts



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MOUSER STOCK NO.	Omron Part Number	Fig.	Contact Form	Rated Coil Voltage	Rated Coil Current	Price Each			
						1	25	50	100
653-G5SB-1DC12	G5SB-1 DC12	D7	SPDT	12VDC	33.3mA	1.57	1.41	1.26	1.13
653-G5SB-14-DC5	G5SB-14-DC5	D7	SPDT	5VDC	80mA	1.63	1.40	1.28	1.14
653-G5SB-14-DC9	G5SB-14-DC9	D7	SPDT	9VDC	44.4mA	1.57	1.41	1.26	1.13
653-G5SB-14-DC12	G5SB-14-DC12	D7	SPDT	12VDC	33.3mA	1.28	1.21	1.14	1.04
653-G5SB-14-DC24	G5SB-14-DC24	D7	SPDT	24VDC	16.7mA	1.75	1.57	1.29	1.17

DIMENSIONS: mm

TERMINAL ARRANGEMENT

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