

OMRON Power PCB Relays

OMRON
ELECTRONIC COMPONENTS

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

RoHS Compliant This page of product is compliant.



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				

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					
653-G2RL-2-DC5	G2RL-2-DC5	B3	DPDT	5VDC	80.0mA					
653-G2RL-2-DC12	G2RL-2-DC12	B3	DPDT	12VDC	33.33mA					
653-G2RL-2-DC24	G2RL-2-DC24	B3	DPDT	24VDC	16.7mA					
653-G2RL-1A-DC5	G2RL-1A-DC5	B4	SPST-NO	5VDC	80mA					
653-G2RL-1A-DC12	G2RL-1A-DC12	B4	SPST-NO	12 VDC	33.33 mA					
653-G2RL-1A-DC24	G2RL-1A-DC24	B4	SPST-NO	24 VDC	16.7 mA					
General Purpose, Fully Sealed										
653-G2RL-14-DC5	G2RL-14-DC5	B2	SPDT	5VDC	80mA					
653-G2RL-14-DC12	G2RL-14-DC12	B2	SPDT	12VDC	33.33mA					
653-G2RL-14-DC24	G2RL-14-DC24	B2	SPDT	24VDC	16.7mA					
653-G2RL-14DC48	G2RL-14 DC48	B2	SPDT	48VDC	8.96mA					
653-G2RL-24-DC5	G2RL-24-DC5	B3	DPDT	5VDC	80mA					
653-G2RL-24-DC24	G2RL-24-DC24	B3	DPDT	24VDC	16.7mA					
653-G2RL-24-DC12	G2RL-24-DC12	B3	DPDT	12VDC	33.33mA					
653-G2RL-1A4-DC12	G2RL-1A4-DC12	B4	SPST-NO	12VDC	33.33mA					
High-Capacity, Flux Protection										
653-G2RL-1-E-DC12	G2RL-1-E-DC12	B5	SPDT	12VDC	33.33mA					
653-G2RL-1-E-DC24	G2RL-1-E-DC24	B5	SPDT	24VDC	16.7mA					
653-G2RL-1A-E-DC5	G2RL-1A-E-DC5	B5	SPDT	5 VDC	80.0 mA					
653-G2RL-1A-E-DC12	G2RL-1A-E-DC12	B6	SPST-NO	12VDC	33.33mA					
653-G2RL-1A4E-DC24	G2RL-1A4E-CF-DC24	B6	SPST-NO	24 VDC	16.7 mA					
High-Sensitivity, Flux Protection										
653-G2RL1HDC9	G2RL-1-H-DC5	B2	SPDT	5VDC	50mA					
653-G2RL1HDC9	G2RL-1-H-DC9	B2	SPDT	9VDC	27.8mA					

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					
*653-G5RL-1E-AC120	G5RL-1-E-AC115/120	C5	SPDT	120VAC	5.35/5.70mA					
*653-G5RL-1E-AC240	G5RL-1-E-AC230/240	C5	SPDT	240VAC	2.76/2.88mA					
High-Capacity, High-Inrush										
653-G5RL-1AEHR-DC5	G5RL-1A-E-HR-DC5	C5	SPST-NO	5VDC	80mA					
653-G5RL-1AEHR-DC12	G5RL-1A-E-HR-DC12	C5	SPST-NO	12VDC	33.3mA					
653-G5RL-1AEHR-DC24	G5RL-1A-E-HR-DC24	C5	SPST-NO	24VDC	16.7mA					
653-G5RL-1-E-HR-DC5	G5RL-1-E-HR-DC5	C5	SPDT	5VDC	80.0mA					
653-G5RL-1-E-HR-DC12	G5RL-1-E-HR-DC12	C5	SPDT	12VDC	33.3mA					
653-G5RL-1-E-HR-DC24	G5RL-1-E-HR-DC24	C5	SPDT	24VDC	16.7mA					
Standard, Low Noise										
653-G5RL-1A-LN-DC5	G5RL-1A-LN-DC5	C5	SPST-NO	5VDC	106.0mA					
653-G5RL-1A-LN-DC12	G5RL-1A-LN-DC12	C5	SPST-NO	12VDC	44.2mA					
653-G5RL-1A-LN-DC24	G5RL-1A-LN-DC24	C5	SPST-NO	24VDC	22.1mA					
High-Capacity, Low Noise										
653-G5RL-1A-E-LN-DC5	G5RL-1A-E-LN-DC5	C5	SPST-NO	5VDC	106.0mA					
653-G5RL-1A-ELNDC12	G5RL-1A-E-LN-DC12	C5	SPST-NO	12VDC	44.2mA					
653-G5RL-1A-ELNDC24	G5RL-1A-E-LN-DC24	C5	SPST-NO	24VDC	22.1mA					

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					
653-G5SB-14-DC5	G5SB-14-DC5	D7	SPDT	5VDC	80mA					
653-G5SB-14-DC9	G5SB-14-DC9	D7	SPDT	9VDC	44.4mA					
653-G5SB-14-DC12	G5SB-14-DC12	D7	SPDT	12VDC	33.3mA					
653-G5SB-14-DC24	G5SB-14-DC24	D7	SPDT	24VDC	16.7mA					

DIMENSIONS: mm

A

B

C

D

TERMINAL ARRANGEMENT

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