

# OMRON Low Signal Relays



## OMRON G6A SERIES: 3A LOW SIGNAL RELAYS

- Unique moving magnet armature (Moving Loop System) reduces relay size, magnetic interference, and contact bounce time.
- High sensitivity allowing for digital circuitry control
- Due to low magnetic leakage, units can be mounted side by side.

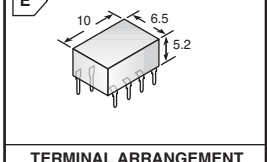
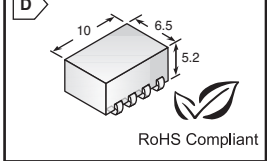
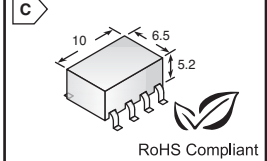
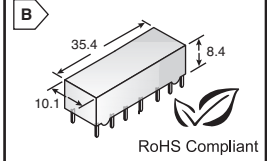
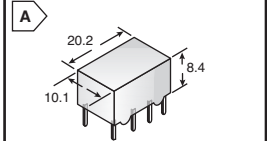
- Low profile design allows use in 12.70mm PCB board rack
- Conforms to FCC part 68 voltage surge
- Contact material: G6A-234P and G6A-434P AgPd (Au clad); G6A-274P and G6A-474Ag(Au clad)



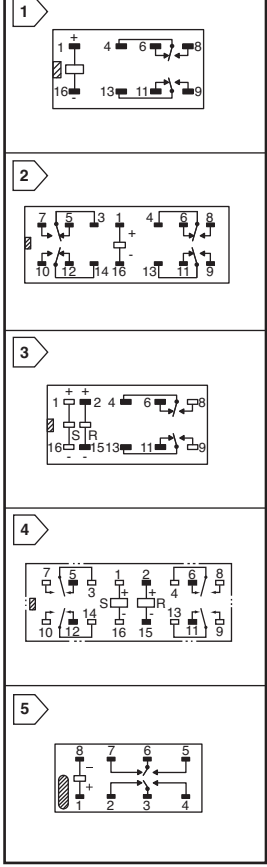
For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Contact Form	Type	Rated Coil Curr. (mA)	Coil VDC	Coil Res. (Ω)	Price Each			
								1	25	50	100
<b>Non-Latching Coil</b>											
653-G6A-234P-DC3	G6A-234P-ST-US-DC3	A1	DPDT	Standard	66.7	3	45	5.30	5.24	4.76	4.44
653-G6A-234P-DC5	G6A-234P-ST-US-DC5	A1	DPDT	Standard	40	5	125	3.50	3.29	3.14	2.99
653-G6A-234P-DC12	G6A-234P-ST-US-DC12	A1	DPDT	Standard	16.7	12	720	3.67	3.43	3.28	3.14
653-G6A-234P-DC24	G6A-234P-ST-US-DC24	A1	DPDT	Standard	8.3	24	2880	4.31	3.87	3.44	3.10
653-G6A-234P-DC48	G6A-234P-ST-US-DC48	A1	DPDT	Standard	4.9	48	9750	6.55	5.41	4.92	4.58
653-G6A-274P-STUSDC3	G6A-274P-ST-US-DC3	A1	DPDT	Standard	66.7	3	45	4.04	3.94	3.74	3.33
653-G6A-274P-DC5	G6A-274P-ST-US-DC5	A1	DPDT	Standard	40	5	125	3.33	3.23	3.07	2.87
653-G6A-274P-DC6	G6A-274P-ST-US-DC6	A1	DPDT	Standard	33.3	6	180	4.37	4.11	3.92	3.73
653-G6A-274P-DC12	G6A-274P-ST-US-DC12	A1	DPDT	Standard	16.7	12	720	7.21	7.01	6.83	6.50
653-G6A-274P-DC24	G6A-274P-ST-US-DC24	A1	DPDT	Standard	8.3	24	2880	4.19	4.04	3.65	3.24
653-G6A-274P-DC48	G6A-274P-ST-US-DC48	A1	DPDT	Standard	4.9	48	9750	4.16	4.06	3.85	3.43
653-G6A-234P-ST-DC5	G6A-234P-ST15-US-DC5	A1	DPDT	High-Sensitivity	30	5	167	4.67	4.40	4.19	4.00
653-G6A-234P-ST40	G6A-234P-ST40-US-DC12	A1	DPDT	Low-Sensitivity	133.3	12	22.5	3.48	3.39	3.22	2.87
653-G6A-274P40-DC5	G6A-274P-ST40-US-DC5	A1	DPDT	Low-Sensitivity	80	5	62.5	3.75	3.48	3.31	3.14
653-G6A-274P40-DC9	G6A-274P-ST40-US-DC9	A1	DPDT	Low-Sensitivity	44.3	9	203	3.75	3.48	3.31	3.14
653-G6A-274P40-DC12	G6A-274P-ST40-US-DC12	A1	DPDT	Low-Sensitivity	33.3	12	360	3.75	3.48	3.31	3.14
653-G6A-274P40-DC24	G6A-274P-ST40-US-DC24	A1	DPDT	Low-Sensitivity	16.7	24	1440	3.75	3.48	3.31	3.14
653-G6A-274P40-DC48	G6A-274P-ST40-US-DC48	A1	DPDT	Low-Sensitivity	8.3	48	5760	5.31	4.78	4.52	4.25
653-G6A-434P-DC5	G6A-434P-ST-US-DC5	B2	4PDT	Standard	72.5	5	69	8.65	8.05	6.34	5.65
653-G6A-434P-DC12	G6A-434P-ST-US-DC12	B2	4PDT	Standard	30	12	400	6.53	6.17	5.87	5.50
653-G6A-434P-DC24	G6A-434P-ST-US-DC24	B2	4PDT	Standard	15	24	1600	7.36	6.85	6.68	6.34
653-G6A-474P-ST-US	G6A-474P-ST-US-DC5	B2	4PDT	Standard	72.5	5	69	7.29	6.93	6.34	5.65
653-G6A-474PSTUSDC12	G6A-474P-ST-US DC12	B2	4PDT	Standard	30	12	400	6.86	6.34	6.25	5.65
653-G6A-474P20-DC5	G6A-474P-ST20-US-DC5	B2	4PDT	High-Sensitivity	40	5	125	10.07	9.37	9.13	8.67
653-G6A-474P20-DC6	G6A-474P-ST20-US-DC6	B2	4PDT	High-Sensitivity	33.3	6	180	12.76	12.08	11.51	11.06
653-G6A-474P20DC12	G6A-474P-ST20-US-DC12	B2	4PDT	High-Sensitivity	16.7	12	720	10.07	9.37	9.13	8.67
653-G6A-474P20-DC24	G6A-474P-ST20-US-DC24	B2	4PDT	High-Sensitivity	8.3	24	2880	10.07	9.37	9.13	8.67
653-G6A-474P40-DC5	G6A-474P-ST40-US-DC5	B2	4PDT	Low-Sensitivity	80	5	62.5	6.93	6.45	6.28	5.96
653-G6A-474P40-DC12	G6A-474P-ST40-US-DC12	B2	4PDT	Low-Sensitivity	33.3	12	360	6.94	6.45	6.28	5.96
653-G6A-474P40-DC24	G6A-474P-ST40-US-DC24	B2	4PDT	Low-Sensitivity	16.7	24	1440	6.94	6.45	6.28	5.96
653-G6A-474P40-DC48	G6A-474P-ST40-US-DC48	B2	4PDT	Low-Sensitivity	8.3	48	5760	7.77	7.22	6.86	6.50
<b>Latching Dual Coil</b>											
653-G6AK-234P-DC5	G6AK-234P-ST-US-DC5	A3	DPDT	Standard	36	5	139	5.40	4.94	4.69	4.18
653-G6AK-234P-DC12	G6AK-234P-ST-US-DC12	A3	DPDT	Standard	15	12	800	5.46	5.08	4.82	4.57
653-G6AK-234P-DC24	G6AK-234P-ST-US-DC24	A3	DPDT	Standard	7.5	24	3200	5.46	5.08	4.83	4.56
653-G6AK-274P-DC5	G6AK-274P-ST-US-DC5	A3	DPDT	Standard	36	5	139	5.46	5.08	4.82	4.57
653-G6AK-274P-DC12	G6AK-274P-ST-US-DC12	A3	DPDT	Standard	15	12	800	5.46	5.08	4.82	4.57
653-G6AK-274P-DC24	G6AK-274P-ST-US-DC24	A3	DPDT	Standard	7.5	24	3200	5.46	5.08	4.83	4.56
653-G6AK-274P-DC48	G6AK-274P-ST-US-DC48	A3	DPDT	Standard	4.2	48	11520	6.19	5.81	5.66	5.37
653-G6AK-474P40-DC5	G6AK-474P-ST40-US-DC5	B4	4PDT	Low-Sensitivity	72.5	5	69	9.66	8.85	8.39	7.49

### DIMENSIONS: mm



### TERMINAL ARRANGEMENT



## OMRON G6K SERIES: ULTRA SMALL 1A DPDT LOW SIGNAL RELAYS

- Meets 2.5kV Bellcore surge requirements
- Fourth generation design based on worldwide communications, office automation, and computer peripheral relay requirements
- DPDT Contact Form

- Contact resistance: 100mΩ max.
- Power consumption: 100mW
- Complies with UL 1950 basic insulation at 125V



For quantities of 500 and up, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Rated Coil Curr. (mA)	Coil VDC	Coil Res. (Ω)	Price Each				
						1	25	50	100	
<b>SMT Gull-Wing - Non-Latching, 2.54mm Lead Spacing</b>										
653-G6K-2FDC3	G6K-2F-DC3	C5	33.0	3	91	3.13	2.71	2.57	2.29	
653-G6K-2F-DC4.5	G6K-2F-DC4.5	C5	23.2	4.5	194	3.79	3.41	3.22	3.03	
653-G6K-2F-DC5	G6K-2F-DC5	C5	21.1	5	237	3.13	2.71	2.57	2.29	
653-G6K-2F-DC12	G6K-2F-DC12	E5	9.1	12	1315	3.13	2.71	2.57	2.29	
653-G6K-2F-DC24	G6K-2F-DC24	C5	4.6	24	5220	3.38	3.03	2.71	2.57	
<b>SMT Gull-Wing - Non-Latching, 3.2mm Coil-Contact Lead Spacing</b>										
653-G6K-2F-Y-DC3	G6K-2F-Y-DC3	C5	33	3	91	3.41	3.06	2.71	2.44	
653-G6K-2F-Y-DC4.5	G6K-2F-Y-DC4.5	C5	23.2	4.5	194	3.41	3.06	2.71	2.44	
653-G6K-2F-Y-DC5	G6K-2F-Y-DC5	C5	21.1	5	237	3.05	2.74	2.57	2.29	
653-G6K-2F-Y-DC12	G6K-2F-Y-DC12	C5	9.1	12	1315	3.41	3.06	2.71	2.44	
653-G6K-2F-Y-DC24	G6K-2F-Y-DC24	C5	4.6	24	5220	3.41	3.06	2.71	2.44	
<b>SMT Inside "L" - Non-Latching, 2.54mm Lead Spacing</b>										
653-G6K-2G-DC5	G6K-2G-DC5	D5	21.1	5	237	3.48	2.93	2.57	2.29	
653-G6K-2G-DC12	G6K-2G-DC12	D5	9.1	12	1,315	3.13	2.71	2.57	2.29	
<b>SMT Inside "L" - Non-Latching, 3.2mm Coil-Contact Lead Spacing</b>										
653-G6K-2G-Y-DC3	G6K-2G-Y-DC3	D5	33.0	3	91	3.79	3.41	3.22	3.03	
653-G6K-2G-Y-DC4.5	G6K-2G-Y-DC4.5	D5	23.2	4.5	194	3.48	3.13	2.96	2.78	
653-G6K-2G-Y-DC5	G6K-2G-Y-DC5	D5	21.1	5	237	3.41	3.06	2.71	2.44	
653-G6K-2G-Y-DC12	G6K-2G-Y-DC12	D5	9.1	12	1315	3.79	3.41	3.22	3.03	
653-G6K-2G-Y-DC24	G6K-2G-Y-DC24	D5	4.6	24	5220	3.48	3.13	2.96	2.78	
<b>PCB Thru-Hole - Non-Latching, 2.54mm Lead Spacing</b>										
653-G6K-2P-DC4.5	G6K-2P-DC4.5	E5	23.2	4.5	194	3.79	3.41	3.22	3.03	
653-G6K-2P-DC5	G6K-2P-DC5	E5	21.1	5	237	3.13	2.71	2.57	2.29	
653-G6K-2P-DC12	G6K-2P-DC12	E5	9.1	12	1315	3.39	2.71	2.57	2.29	
653-G6K-2P-DC24	G6K-2P-DC24	E5	4.6	24	5220	3.79	3.41	3.22	3.03	
<b>PCB Thru-Hole - Non-Latching, 3.2mm Coil-Contact Lead Spacing</b>										
653-G6K-2P-Y-DC3	G6K-2P-Y-DC3	E5	33	3	91	3.79	3.41	3.22	3.03	
653-G6K-2P-Y-DC4.5	G6K-2P-Y-DC4.5	E5	23.2	4.5	194	3.79	3.41	3.22	3.03	
653-G6K-2P-Y-DC5	G6K-2P-Y-DC5	E5	21.1	5	237	3.13	2.71	2.57	2.29	
653-G6K-2P-Y-DC12	G6K-2P-Y-DC12	E5	9.1	12	1315	3.48	3.13	2.96	2.78	
653-G6K-2P-Y-DC24	G6K-2P-Y-DC24	E5	4.6	24	5220	3.48	3.13	2.96	2.78	

