

OMRON Sealed Basic Switches

OMRON
ELECTRONIC COMPONENTS

RoHS Compliant This product is RoHS compliant.

DIMENSIONS: mm

A

B

C

D

OMRON D2FD SERIES: DUST-PROOF, ULTRA-SUBMINIATURE BASIC SWITCHES

Specifications:

- Contact form: SPDT
- Contact material: D2FD-2 Silver alloy, D2FD-2 Gold alloy
- Contact gap: 0.25mm

Features:

- Sealing by using rubber packing means the switch can be used in dust-proof environments (IEC IP6X).
- Switch rating of 2A @ 125VAC possible with a single-leaf movable spring.

NEW
PRODUCT

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Operating Force (Max.)	Terminals	Price Each			
						1	25	50	100
Rating 0.1A @ 125VAC/30VDC									
653-D2FD-01L0-1T	D2FD-01L0-1T	A	Pin plunger	204 gf	PCB	4.40	4.23	3.29	2.91
653-D2FD-01L0-1H	D2FD-01L0-1H	A	Pin plunger	204 gf	Solder	4.40	4.23	3.29	2.91
653-D2FD-01L1-1T	D2FD-01L1-1T	A	Hinge lever	66 gf	PCB	4.05	3.78	2.94	2.60
653-D2FD-01L1-1H	D2FD-01L1-1H	A	Hinge lever	66 gf	Solder	4.70	3.96	3.08	2.73
653-D2FD-01L30-1T	D2FD-01L30-1T	A	Simulated roller lever	66 gf	PCB	4.70	3.96	3.08	2.73
653-D2FD-01L30-1H	D2FD-01L30-1H	A	Simulated roller lever	66 gf	Solder	4.70	3.96	3.08	2.73
Rating 2A @ 125VAC/30VDC									
653-D2FD-2L0-1T	D2FD-2L0-1T	A	Pin plunger	204 gf	PCB	4.20	4.05	3.15	2.79
653-D2FD-2L0-1H	D2FD-2L0-1H	A	Pin plunger	204 gf	Solder	4.20	4.05	3.15	2.79
653-D2FD-2L1-1T	D2FD-2L1-1T	A	Hinge lever	66 gf	PCB	4.50	4.05	3.15	2.79
653-D2FD-2L1-1H	D2FD-2L1-1H	A	Hinge lever	66 gf	Solder	4.05	3.15	2.79	2.68
653-D2FD-2L30-1T	D2FD-2L30-1T	A	Simulated roller lever	66 gf	PCB	4.05	4.23	3.29	2.91
653-D2FD-2L30-1H	D2FD-2L30-1H	A	Simulated roller lever	66 gf	Solder	4.50	4.23	3.29	2.91

OMRON D2HW SERIES: SEALED, SUBMINIATURE SNAP ACTION SWITCHES

Specifications:

- Contact rating: 0.1mA @ 125VAC / 2A @ 12VDC
- Contact material: Gold alloy
- Contact gap: 0.5mm
- Molded lead wire length: 30cm

Features:

- Smallest sealed snap action switch in the industry with long stroke for reliable ON/OFF action
- Case dimensions 22% smaller than conventional models
- Extra-long stroke even without levers (OT: 1.4mm)

For quantities greater than listed, call for quote.

MOUSER STOCK NO.	Omron Part No.	Fig.	Contact Form	Actuator Type	Operating Force (Max.)	Terminals	Mounting Structure	Price Each			
								1	25	50	100
653-D2HW-A201D	D2HW-A201D	B	SPDT	Pin plunger	76 gf	PCB straight	Without post	2.34	2.23	2.05	1.89
653-D2HW-BL201DL	D2HW-BL201DL	B	SPDT	Pin plunger	76 gf	PCB angled	Posts on left	2.21	2.13	1.99	1.86
653-D2HW-C201H	D2HW-C201H	B	SPDT	Pin plunger	76 gf	Solder	M-3 Screw mount	2.44	2.23	2.04	1.89
653-D2HW-C201M	D2HW-C201M	B	SPDT	Pin plunger	76 gf	Lead wire: Downwards	M-3 Screw mount	4.93	4.53	4.22	3.98
653-D2HW-C211M	D2HW-C211M	B	SPDT	Hinge lever	76 gf	Lead wire: Downwards	M-3 Screw mount	6.39	5.85	5.57	5.38
653-D2HW-A221D	D2HW-A221D	B	SPDT	Long hinge lever	50 gf	PCB straight	Without post	2.46	2.24	2.06	1.90
653-D2HW-BL221DL	D2HW-BL221DL	B	SPDT	Long hinge lever	50 gf	PCB angled	Posts on left	2.61	2.38	2.19	2.02
653-D2HW-A231D	D2HW-A231D	B	SPDT	Simulated roller hinge lever	66 gf	PCB straight	Without post	2.28	2.08	1.91	1.76
653-D2HW-BR231DR	D2HW-BR231DR	B	SPDT	Simulated roller hinge lever	66 gf	PCB angled	Posts on right	2.61	2.38	2.19	2.02
653-D2HW-C212MR	D2HW-C212MR	B	SPST-NC	Hinge lever	76 gf	Lead wire: Right-side	M-3 Screw mount	6.78	6.20	5.80	5.44
653-D2HW-BL212ML	D2HW-BL212ML	B	SPST-NC	Hinge lever	76 gf	Lead wire: Left-side	Posts on left	6.24	5.69	5.21	4.81
653-D2HW-BL203MR	D2HW-BL203MR	B	SPST-NO	Pin plunger	76 gf	Lead wire: Right-side	Posts on left	6.29	5.72	5.25	4.84
653-D2HW-C203MR	D2HW-C203MR	B	SPST-NO	Pin plunger	76 gf	Lead wire: Right-side	M-3 Screw mount	7.48	6.81	6.24	5.75
* 653-D2HW-C203MRS	D2HW-C203MRS	B	SPST-NO	Pin plunger	76 gf	Lead wire: Right-side	M-3 Screw mount	7.98	7.25	6.66	6.14
653-D2HW-C213MR	D2HW-C213MR	B	SPST-NO	Hinge lever	76 gf	Lead wire: Right-side	M-3 Screw mount	6.41	5.86	5.58	5.39

OMRON D2QW SERIES: SEALED, ULTRA-SUBMINIATURE BASIC SWITCHES

Specifications:

- Contact rating: 1mA @ 5VDC / 0.1A @ 30VDC
- Contact material: Gold plated
- Insulation resistance: 100MQ min. @ 500VDC
- Use M3 screws to mount the switch

Features:

- Clip contacts with highly reliable slide contact mechanism
- Sliding contact allows for quiet operating sound
- High temperature resistance and drip-proof structure for wide range of applications and environmental conditions
- Extra long stroke (OT 2.7mm)

NEW
PRODUCT

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MOUSER STOCK NO.	Omron Part No.	Fig.	Contact Form	Actuator Type	Operating Force (Max.)	Terminals	Price Each			
							1	25	50	100
653-D2QW-C003H	D2QW-C003H	C	SPST-NO	Pin plunger	153 gf	Solder	7.23	6.35	5.65	5.07
653-D2QW-C073H	D2QW-C073H	C	SPST-NO	Simulated roller leaf lever	153 gf	Solder	6.53	5.73	5.09	4.59

OMRON D2VW SERIES: MINIATURE, WATERTIGHT SNAP ACTION SWITCHES

Specifications:

- Contact form: SPDT
- Contact material: D2VW-01 Gold alloy, D2VW-5 Silver alloy
- Mechanical life: 10,000,000 operations min.
- Molded lead wire length: 30cm

Features:

- High-quality watertight, high-precision miniature snap action switches meet IP67 (IEC 529) requirements (for lead wire types) and IP50 (for terminal types)
- Monoblock construction assures high sealing capability and is ideal for dusty environments or where water is sprayed



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MOUSER STOCK NO.	Omron Part No.	Fig.	Actuator Type	Operating Force (Max.)	Terminals	Price Each			
						1	25	50	100
Rating 0.1A @ 30VDC									
653-D2VW-01-1HS	D2VW-01-1HS	D	Pin plunger	200 gf	Solder and QC #187	4.17	3.90	3.65	3.49
653-D2VW-01L2-1HS	D2VW-01L2-1HS	D	Hinge roller lever	120 gf	Solder and QC #187	7.23	6.89	6.58	6.08
653-D2VW-01L2-1MS	D2VW-01L2-1MS	D	Hinge roller lever	120 gf	Molded lead wires	12.32	11.67	10.37	9.92
Rating 5A @ 250VAC									
653-D2VW-5-1HS	D2VW-5-1HS	D	Pin plunger	200 gf	Solder and QC #187	4.39	3.94	3.51	3.36
653-D2VW-5-1MS	D2VW-5-1MS	D	Pin plunger	200 gf	Molded lead wires	7.25	6.52	5.79	5.21
653-D2VW-5L1-1MS	D2VW-5L1-1MS	D	Hinge lever	120 gf	Molded lead wires	7.19	6.54	6.01	5.54
653-D2VW-5L3-1HS	D2VW-5L3-1HS	D	Simulated roller lever	120 gf	Solder and QC #187	3.92	3.66	3.59	3.46
653-D2VW-5L3-1MS	D2VW-5L3-1MS	D	Simulated roller lever	120 gf	Molded lead wires	11.41	10.64	10.43	9.86
653-D2VW-5L2A-1HS	D2VW-5L2A-1HS	D	Short hinge roller lever	230 gf	Solder and QC #187	4.49	4.20	4.09	3.74
653-D2VW-5L2A-1MS	D2VW-5L2A-1MS	D	Short hinge roller lever	230 gf	Molded lead wires	7.51	6.75	6.00	5.74
653-D2VW-5L2-1HS	D2VW-5L2-1HS	D	Hinge roller lever	120 gf	Solder and QC #187	5.49	5.24	5.00	4.61
653-D2VW-5L2-1MS	D2VW-5L2-1MS	D	Hinge roller lever	120 gf	Molded lead wires	7.45	7.10	6.76	6.23

Basic/Snap Switches Omron