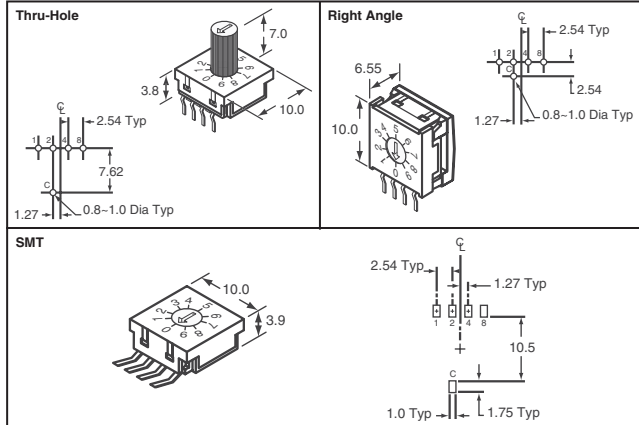


10mm Rotary DIP Switches

Specifications: • Switching Rating: 100mA @ 5VDC; Non-switching Rating: 100mA @ 50VDC; • Contact Resistance: 100mΩ maximum • Mechanical Life: 10,000 detent operations minimum • Electrical Life: 10,000 detent operations minimum **Materials and Finishes:** • Actuators: Glass fiber reinforced polyamide (UL94V-0) • Movable Contacts: Copper alloy with gold plating • Stationary Contacts: Phosphor bronze with gold plating • Terminals: Phosphor bronze with gold plating **Operating Temperature Range:** -25°C ~ 85°C **Note:** These devices are not process sealed. Hand clean locally using alcohol based solution.



Code	Termination	Actuator	Digi-Key Part No.	Price Each			NKK Part No.
				1	25	100	
BCD	SMT	Flush	360-2211-1-ND†	2.96	2.37	1.88	FR02FR10P-R
	SMT	Flush	360-2211-2-ND‡	715.84/500			FR02FR10P-R
	Thru-Hole	Flush	360-2206-ND	2.65	1.65	1.50	FR01FR10P-S
	Thru-Hole	Extended	360-2206-ND	2.65	1.65	1.50	FR01KR10P-S
	Right Angle	Flush	360-2197-ND	2.90	1.81	1.64	FR01FR10H-S
	Right Angle	Extended	360-2205-ND	2.90	1.81	1.64	FR01KR10H-S
BCD Comp	SMT	Flush	360-2209-1-ND†	2.96	2.37	1.88	FR02FC10P-R
	SMT	Flush	360-2209-2-ND‡	715.84/500			FR02FC10P-R
	Thru-Hole	Flush	360-2194-ND	2.65	1.65	1.50	FR01FC10P-S
	Thru-Hole	Extended	360-2202-ND	2.65	1.65	1.50	FR01KC10P-S
	Right Angle	Flush	360-2193-ND	2.90	1.81	1.64	FR01FC10H-S
	Right Angle	Extended	360-2201-ND	2.90	1.81	1.64	FR01KC10H-S
Hex	SMT	Flush	360-2212-1-ND†	2.96	2.37	1.88	FR02FR16P-R
	SMT	Flush	360-2212-2-ND‡	715.84/500			FR02FR16P-R
	Thru-Hole	Flush	360-2200-ND	2.65	1.65	1.50	FR01FR16P-S
	Thru-Hole	Extended	360-2208-ND	2.65	1.65	1.50	FR01KR16P-S
	Right Angle	Flush	360-2199-ND	2.90	1.81	1.64	FR01FR16H-S
	Right Angle	Extended	360-2207-ND	2.90	1.81	1.64	FR01KR16H-S
Hex Comp	SMT	Flush	360-2210-1-ND†	2.96	2.37	1.88	FR02FC16P-R
	SMT	Flush	360-2210-2-ND‡	715.84/500			FR02FC16P-R
	Thru-Hole	Flush	360-2196-ND	2.65	1.65	1.50	FR01FC16P-S
	Thru-Hole	Extended	360-2204-ND	2.65	1.65	1.50	FR01KC16P-S
	Right Angle	Flush	360-2195-ND	2.90	1.81	1.64	FR01FC16H-S
	Right Angle	Extended	360-2203-ND	2.90	1.81	1.64	FR01KC16H-S
Snap-On Knob for Flush Actuators			360-2246-ND	.81	.45	.38	AT4180

† Cut Tape ‡ Tape and Reel

COPAL ELECTRONICS

CUS Series – Low Profile Compact Slide Switches



Features: • Low profile version of 1.4mm **Specifications:** • Operating Temperature: -20°C ~ 70°C • Switching Current: 300mA @ 4VDC • Insulation Resistance: 100MΩ minimum • Contact Resistance: 70mΩ maximum **Applications:** • Mobile stereos • LCD TVs • Camcorders

Dim. in mm

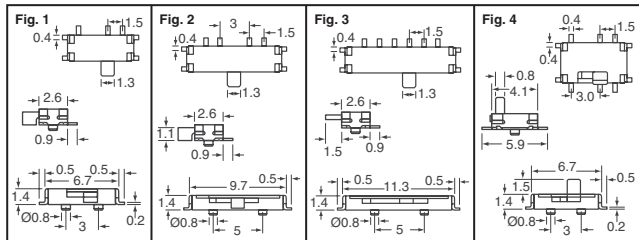


Fig.	Description	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel ‡	Copal Electronics Part No.	
			1	10	100			
1	SPDT, Gull Wing	563-1102-1-ND	.78	.50	.36	2,500	284.60/M	CUS-12TB
2	SP3T, Gull Wing	563-1103-1-ND	.81	.52	.38	2,500	296.21/M	CUS-13TB
3	SP4T, Gull Wing	563-1104-1-ND	.89	.57	.41	2,500	323.80/M	CUS-14TB
4	DPDT, Gull Wing	563-1105-1-ND	.84	.54	.39	1,400	307.10/M	CUS-22TB

‡ For Tape and Reel part number, change 1-ND to 2-ND.

DIP Switches

CES Series

Features: • Excellent contact stability by twin gold-plated contacts • Fine click action **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CHS Series

Features: • Meets EIAJ SOP standard outline dimensions (B type) • Low profile design of 2.5mm • Excellent contact stability by twin gold-plated contact **Specifications:** • Operating Temperature: -40°C ~ 85°C • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CHP Series

Features: • High-reliability **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 50mΩ

CVS Series

Features: • Low profile design of 1.45mm • Fine pitch of 1mm • Easy motion with knob height of 0.2mm **Specifications:** • Operating Temperature: -40°C ~ 85°C • Non-washable • Contact Rating (non-switching): 50VDC @ 100mA • Contact Rating (switching): 6VDC @ 100mA or 24VDC @ 25mA • Maximum Contact Resistance: 200mΩ

Fig. 1 — CES Series

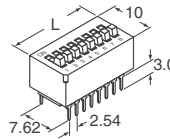


Fig. 2 — CHS Series, J-Lead Type

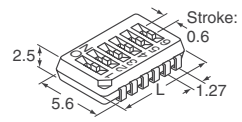


Fig. 3 — CHS Series, Gull Wing Type

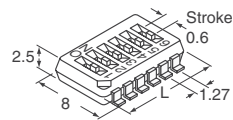


Fig. 4 — CHP Series, J-Lead Type

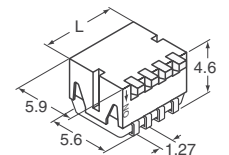


Fig. 5 — CHP Series, Gull Wing Type

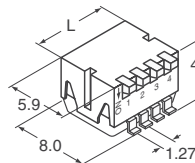


Fig. 6 — CVS Series, Gull Wing Type

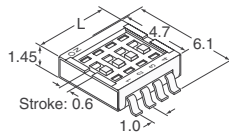


Fig.	No. of Pos.	Dim. L mm	Digi-Key Part No.	Cut Tape Price Each			Tape and Reel ‡ Qty.	Pricing	Copal Electronics Part No.
				1	10	100			
CES Series, Through-Hole Type									
1	4	12.74	563-1000-5-ND†	1.69	1.02	.89	—	—	CES-0402MC
	8	22.9	563-1002-5-ND†	2.07	1.27	1.10	—	—	CES-0802MC
CHS Series, J-Lead Type - Half Pitch									
2	1	2.5	563-1003-1-ND	1.10	.71	.54	1,000	470.45	CHS-01TA
	2	4.1	563-1005-1-ND	2.14	1.38	1.04	500	458.83	CHS-02TA
	4	6.6	563-1007-1-ND	1.76	1.18	.95	500	441.05	CHS-04TA
	6	9.2	563-1009-1-ND	2.26	1.51	1.21	500	545.59	CHS-06TA
	8	11.7	563-1011-1-ND	2.40	1.60	1.28	500	579.71	CHS-08TA
10	14.3	563-1013-1-ND	2.64	1.76	1.41	500	636.70	CHS-10TA	
	CHS Series, Gull Wing Type - Half Pitch								
3	1	2.5	563-1004-1-ND	1.10	.71	.54	1,000	470.45	CHS-01TB
	2	4.1	563-1006-1-ND	2.14	1.38	1.04	500	458.83	CHS-02TB
	4	6.6	563-1008-1-ND	1.97	1.32	1.06	500	494.04	CHS-04TB
	6	9.2	563-1010-1-ND	2.26	1.51	1.21	500	545.59	CHS-06TB
	8	11.7	563-1012-1-ND	2.40	1.60	1.28	500	579.71	CHS-08TB
10	14.3	563-1014-1-ND	2.64	1.76	1.41	500	636.70	CHS-10TB	
	CHP Series, J-Lead Type - Half Pitch								
4	2	4.6	563-1015-1-ND	2.14	1.38	1.04	500	458.83	CHP-021TA
	8	12.2	563-1019-1-ND	2.40	1.60	1.28	500	579.71	CHP-081TA
CHP Series, Gull Wing Type									
5	4	7.1	563-1018-1-ND	1.97	1.32	1.06	500	494.04	CHP-041TB
	8	12.2	563-1020-1-ND	2.40	1.60	1.28	—	—	CHP-081TB
CVS Series, Gull Wing Type									
6	4	5	563-1041-1-ND	2.58	1.73	1.38	2,000	1186.29/M	CVS-04TB
	8	9	563-1042-1-ND	3.36	2.25	1.80	2,000	1513.71/M	CVS-08TB

† Bulk ‡ For Tape and Reel part number, change 1-ND to 2-ND.

Digi-Reel® Most SMT cutdown parts are available on a Digi-Reel®. For Digi-Reel part number, change 1-ND to 6-ND or CT-ND to DKR-ND. See Digi-Key® Services on page 2 for additional information.

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