

CTS DIP Switches

Electrical Specifications:

Initial Contact Resistance: 25mΩ (209, 219 Series); 50mΩ (193, 194, 204, and 206 Series); 100mΩ (195, 208, and 218 Series).

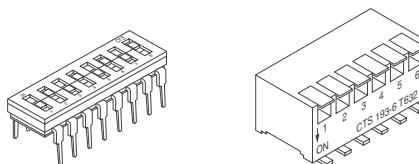
Maximum Contact Resistance: 100mΩ after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100mΩ after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500mΩ after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500mΩ after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles switching 25mA @ 24VDC (208 Series); 50mΩ maximum at end of life (209 and 219 Series). Gold finish refers to internal contact area of the switch, terminals are solder coated.

Maximum Non-Switching Rating: 100mA or 50VDC.

Insulation Resistance: Across open switch and between adjacent closed switches - 1 x 10¹⁰Ω (218 Series: 100mΩ minimum).

Dielectric Breakdown: 500VDC maximum for 1 minute (218 Series - 300VDC maximum).

Switch Capacitance: Between adjacent switches maximum - 5.0pF (218 Series: 10pF).



Shock: Per MIL-STD-202F, method 213B, condition A with no contact inconsistencies greater than 1μsec (206, 208, 209, 218 and 219 Series); no mechanical damage or changes of switch settings with 25G applied (193, 194, 195 and 204 Series).

Vibration: Per MIL-STD-202F, method 204D, condition B (.06" or 15G's between 10Hz to 2KHz) with no contact inconsistencies greater than 1μsec (204, 206, 208, 209, 218, and 219 Series). No mechanical damage or changes of switch settings during or after testing when tested in three mutually perpendicular planes at 10-50Hz sweep or at 60Hz constant vibration (193, 194 and 195 Series).

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing 1 10 100	CTS Part No.
206 Series — SPST, Gold Finish, Lt. Blue Body					
1	2	7.26	CT2062ND	.71 6.46 58.74	206-2
	3	9.80	CT2063ND	.56 5.11 46.48	206-3
	4	12.34	CT2064ND	.32 3.00 27.26	206-4
	5	14.88	CT2065ND	.40 3.68 33.46	206-5
	6	17.42	CT2066ND	.60 5.49 49.95	206-6
	7	19.96	CT2067ND	.61 5.54 50.32	206-7
	8	22.50	CT2068ND	.36 3.27 29.74	206-8
	9	25.04	CT2069ND	.58 5.36 48.71	206-9
	10	27.58	CT20610ND	.60 5.51 50.07	206-10
	12	32.66	CT20612ND	.68 6.27 57.01	206-12
206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body					
1	2	7.26	CT2062ST-ND	.75 6.87 62.46	206-2ST
	3	9.80	CT2063ST-ND	.60 5.48 49.82	206-3ST
	4	12.34	CT2064ST-ND	.37 3.41 30.98	206-4ST
	5	14.88	CT2065ST-ND	.53 4.88 44.37	206-5ST
	6	17.42	CT2066ST-ND	.69 6.32 57.50	206-6ST
	7	19.96	CT2067ST-ND	.70 6.39 58.13	206-7ST
	8	22.50	CT2068ST-ND	.40 3.68 33.46	206-8ST
	9	25.04	CT2069ST-ND	.67 6.11 55.52	206-9ST
	10	27.58	CT20610ST-ND	.57 5.18 47.09	206-10ST
	12	32.66	CT20612ST-ND	.57 5.18 47.09	206-12ST
208 Series — SPST, Tin Finish, Black Body					
1	2	7.26	CT2082ND	.58 5.32 48.33	208-2
	3	9.80	CT2083ND	.53 4.91 44.61	208-3
	4	12.34	CT2084ND	.28 2.59 23.55	208-4
	5	14.88	CT2085ND	.43 3.95 35.94	208-5
	6	17.42	CT2086ND	.45 4.09 37.18	208-6
	7	19.96	CT2087ND	.47 4.36 39.66	208-7
	8	22.50	CT2088ND	.30 2.73 24.79	208-8
	9	25.04	CT2089ND	.51 4.64 42.14	208-9
	10	27.58	CT20810ND	.55 5.05 45.85	208-10
	12	32.66	CT20812ND	.61 5.59 50.81	208-12
206-124 — SPDT, Gold Finish, Lt. Blue Body					
1	4	22.50	CT206124ND	1.15 10.48 95.30	206-124
206-214 — DPST, Gold Finish, Lt. Blue Body					
1	4	22.50	CT206214ND	.89 8.19 74.48	206-214
194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body					
2	2	7.26	CT1942MST-ND	.77 7.09 64.44	194-2MST
	3	9.80	CT1943MST-ND	.52 4.77 43.38	194-3MST
	4	12.34	CT1944MST-ND	.47 4.36 39.66	194-4MST
	5	14.88	CT1945MST-ND	.80 7.36 66.92	194-5MST
	6	17.42	CT1946MST-ND	.74 6.82 61.97	194-6MST
	7	19.96	CT1947MST-ND	.88 8.04 73.12	194-7MST
	8	22.50	CT1948MST-ND	.52 4.77 43.38	194-8MST
	9	25.04	CT1949MST-ND	.94 8.59 78.08	194-9MST
	10	27.58	CT19410MST-ND	.85 7.77 70.64	194-10MST
	12	32.66	CT19412MST-ND	1.04 9.55 86.75	194-12MST
195-MST Series — SPST, Tin Finish, Sealed, Black Body					
2	2	7.26	CT1952MST-ND	.45 4.09 37.18	195-2MST
	4	12.34	CT1954MST-ND	.49 4.48 40.78	195-4MST
	5	14.88	CT1955MST-ND	.72 6.54 59.49	195-5MST
	6	17.42	CT1956MST-ND	.64 5.86 53.29	195-6MST
	7	19.96	CT1957MST-ND	.73 6.69 60.85	195-7MST
	8	22.50	CT1958MST-ND	.67 6.14 55.77	195-8MST
	9	25.04	CT1959MST-ND	.83 7.63 69.40	195-9MST
	10	27.58	CT19510MST-ND	.73 6.68 60.73	195-10MST
	12	32.66	CT19512MST-ND	.88 8.04 73.12	195-12MST
206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body					
3	2	7.26	CT2062RAST-ND	.90 8.26 75.10	206-2RAST
	3	9.80	CT2063RAST-ND	.72 6.54 59.49	206-3RAST
	4	12.34	CT2064RAST-ND	.57 5.18 47.09	206-4RAST
	5	14.88	CT2065RAST-ND	.55 5.06 45.98	206-5RAST
	6	17.42	CT2066RAST-ND	.70 6.41 58.25	206-6RAST
	7	19.96	CT2067RAST-ND	.84 7.66 69.65	206-7RAST
	8	22.50	CT2068RAST-ND	.70 6.41 58.25	206-8RAST
	9	25.04	CT2069RAST-ND	.83 7.58 68.91	206-9RAST
	10	27.58	CT20610RAST-ND	1.06 9.72 88.36	206-10RAST
	12	32.66	CT20612RAST-ND	.95 8.74 79.44	206-12RAST
209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body					
4	2	6.55	CT2092LPST-ND	.37 3.41 30.98	209-2LPST
	3	9.09	CT2093LPST-ND	.40 3.68 33.46	209-3LPST
	4	11.63	CT2094LPST-ND	.31 2.86 26.03	209-4LPST
	5	14.17	CT2095LPST-ND	.51 4.64 42.14	209-5LPST
	6	16.71	CT2096LPST-ND	.40 3.68 33.46	209-6LPST

Fig.	No. of Pos.	Dim. A (mm)	Digi-Key Part No.	Pricing			CTS Part No.
				1	10	100	
4	2	19.25	CT2097LPST-ND	.59	5.45	49.57	209-7LPST
	8	21.79	CT2098LPST-ND	.40	3.68	33.46	209-8LPST
	9	24.33	CT2099LPST-ND	.70	6.41	58.25	209-9LPST
	10	26.87	CT20910LPST-ND	.74	6.62	61.97	209-10LPST
	12	31.95	CT20912LPST-ND	.83	7.63	69.40	209-12LPST
209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body							
4	2	6.55	CT2092MS-ND	.36	3.27	29.74	209-2MS
	3	9.09	CT2093MS-ND	.39	3.55	32.22	209-3MS
	4	11.63	CT2094MS-ND	.43	3.95	35.94	209-4MS
	5	14.17	CT2095MS-ND	.49	4.50	40.90	209-5MS
	6	16.71	CT2096MS-ND	.53	4.91	44.61	209-6MS
	7	19.25	CT2097MS-ND	.58	5.32	48.33	209-7MS
	8	21.79	CT2098MS-ND	.62	5.73	52.05	209-8MS
	9	24.33	CT2099MS-ND	.68	6.27	57.01	209-9MS
	10	26.87	CT20910MS-ND	.73	6.68	60.73	209-10MS
	12	31.95	CT20912MS-ND	.82	7.50	68.16	209-12MS
219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body							
5	2	6.55	CT2192LPST-ND	.32	2.92	26.52	219-2LPST
	3	9.09	CT2193LPST-ND	.43	3.95	35.94	219-3LPST
	4	11.63	CT2194LPST-ND	.32	3.00	27.26	219-4LPST
	5	14.17	CT2195LPST-ND	.52	4.77	43.38	219-5LPST
	6	16.71	CT2196LPST-ND	.48	4.42	40.15	219-6LPST
	7	19.25	CT2197LPST-ND	.62	5.73	52.05	219-7LPST
	8	21.79	CT2198LPST-ND	.51	4.64	42.14	219-8LPST
	9	24.33	CT2199LPST-ND	.72	6.54	59.49	219-9LPST
	10	26.87	CT21910LPST-ND	.63	5.81	52.79	219-10LPST
	12	31.95	CT21912LPST-ND	.85	7.77	70.64	219-12LPST
219-MST Series — SPST, Gold Finish, Extended, Sealed, Brown Body							
5	2	6.55	CT2192MST-ND	.27	2.46	22.31	219-2MST
	3	9.09	CT2193MST-ND	.43	3.95	35.94	219-3MST
	4	11.63	CT2194MST-ND	.32	3.00	27.26	219-4MST
	5	14.17	CT2195MST-ND	.52	4.77	43.38	219-5MST
	6	16.71	CT2196MST-ND	.57	5.18	47.09	219-6MST
	7	19.25	CT2197MST-ND	.62	5.73	52.05	219-7MST
	8	21.79	CT2198MST-ND	.52	4.77	43.38	219-8MST
	9	24.33	CT2199MST-ND	.72	6.54	59.49	219-9MST
	10	26.87	CT21910MST-ND	.74	6.82	61.97	219-10MST
	12	31.95	CT21912MST-ND	.85	7.77	70.64	219-12MST
193 Series — SPST, Gold Finish, Brown Body							
6	2	7.26	CT1932MS-ND	1.07	8.58	75.80	193-2MS
	3	9.80	CT1933MS-ND	1.11	8.91	78.80	193-3MS
	4	12.34	CT1934MS-ND	.98	7.85	71.95	193-4MS
	5	14.88	CT1935MS-ND	1.13	9.09	83.31	193-5MS
	6	17.42	CT1936MS-ND	1.15	9.22	81.52	193-6MS
	7	19.96	CT1937MS-ND	1.26	10.02	88.61	193-7MS
	8	22.50	CT1938MS-ND	1.09	8.70	76.89	193-8MS
204 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
7	2	7.26	CT2042ST-ND	.97	8.38	76.80	204-2ST
	3	9.80	CT2043ST-ND	.99	7.87	69.53	204-3ST
	4	12.34	CT2044ST-ND	.83	7.11	65.13	204-4ST
	5	14.88	CT2045ST-ND	.87	7.44	68.16	204-5ST
	6	17.42	CT2046ST-ND	.89	7.60	69.68	204-6ST
	7	19.96	CT2047ST-ND	.93	7.93	72.71	204-7ST
	8	22.50	CT2048ST-ND	.95	8.10	74.22	204-8ST
	9	25.04	CT2049ST-ND	.99	8.43	77.25	204-9ST
	10	27.58	CT20410ST-ND	1.04	8.92	81.79	204-10ST
	12	32.66	CT20412ST-ND	1.14	9.75	89.37	204-12ST
204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204121ST-ND	1.07	9.19	84.22	204-121ST
	2	7.26	CT204121LPST-ND	1.20	10.24	93.91	204-121LPST
204 Series — DPST, Tape Sealed, Gold Finish, Brown Body							
7	1	7.26	CT204211ST-ND	.85	6.79	59.98	204-211ST
	2	12.34	CT204212ST-ND	1.04	8.33	73.61	204-212ST
	3	17.42	CT204213ST-ND	1.12	9.58	87.85	204-213ST
	4	22.50	CT204214ST-ND	1.20	9.56	84.52	204-214ST
	5	27.58	CT204215ST-ND	1.21	10.08	92.40	204-215ST
	6	32.66	CT204216ST-ND	1.33	12.35	114.02	204-216ST
204 Series — DPDT, Tape Sealed, Gold Finish, Brown Body							
7	1	12.34	CT204221ST-ND	1.65	14.13	129.51	204-221ST
	2	22.50	CT204222ST-ND	1.04	8.33	73.61	204-222ST
	3	32.66	CT204223ST-ND	1.20	9.56	84.52	204-223ST
218 Series — SPST, Tape Sealed, Gold Finish, Brown Body							
8	2	3.71	CT2182LPST-ND	1.05	8.36	73.89	218-2LPST
	4	6.25	CT2184LPST-ND	1.04	8.33	73.61	218-4LPST
	6	8.79	CT2186LPST-ND	1.39	11.09	98.01	218-6LPST
	8	11.33	CT2188LPST-ND	1.79	14.31	126.51	218-8LPST
	10	13.87	CT21810LPST-ND	.98	7.85	69.39	218-10LPST
12	16.41	CT21812LPST-ND	1.64	15.06	136.95	218-12LPST	