

# 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).

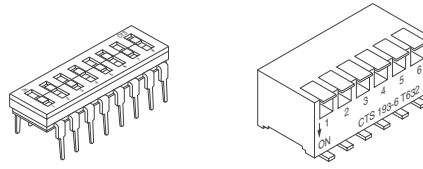
**Maximum Contact Resistance:** 100mΩ after 10,000 cycles switching 50mA @ 24VDC (206 Series); 100mΩ after 7,000 cycles switching 50mA @ 24VDC (193 and 194 Series); 500mΩ after 2,000 cycles switching 50mA @ 24VDC (195 Series); 500mΩ after 2,000 cycles switching 50mA @ 15VDC or 100mΩ after 1,000 cycles 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 10<sup>10</sup>Ω (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.	1	10	100	CTS Part No.	
<b>206 Series — SPST, Gold Finish, Lt. Blue Body</b>								
1	2	7.26	CT2062-ND	.71	6.46	58.74	206-2	
	3	9.80	CT2063-ND	.56	5.11	46.48	206-3	
	4	12.34	CT2064-ND	.32	3.00	27.26	206-4	
	5	14.88	CT2065-ND	.40	3.68	33.46	206-5	
	6	17.42	CT2066-ND	.60	5.49	49.95	206-6	
	7	19.96	CT2067-ND	.61	5.54	50.32	206-7	
	8	22.50	CT2068-ND	.36	3.27	29.74	206-8	
	9	25.04	CT2069-ND	.58	5.36	48.71	206-9	
	10	27.58	CT20610-ND	.60	5.51	50.07	206-10	
	12	32.66	CT20612-ND	.68	6.27	57.01	206-12	
	<b>206-ST Series — SPST, Gold Finish, Sealed, Lt. Blue Body</b>							
	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	3.99	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	
<b>208 Series — SPST, Tin Finish, Black Body</b>								
1		2	7.26	CT2082-ND	.58	5.32	48.33	208-2
	3	9.80	CT2083-ND	.53	4.91	44.61	208-3	
	4	12.34	CT2084-ND	.28	2.59	23.55	208-4	
	5	14.88	CT2085-ND	.43	3.95	35.94	208-5	
	6	17.42	CT2086-ND	.45	4.09	37.18	208-6	
	7	19.96	CT2087-ND	.47	4.36	39.66	208-7	
	8	22.50	CT2088-ND	.30	2.73	24.79	208-8	
	9	25.04	CT2089-ND	.51	4.64	42.14	208-9	
	10	27.58	CT20810-ND	.55	5.05	45.85	208-10	
	12	32.66	CT20812-ND	.61	5.59	50.81	208-12	
	<b>206-124 — SPDT, Gold Finish, Lt. Blue Body</b>							
	1	4	22.50	CT206124-ND	1.15	10.48	95.30	206-124
<b>206-214 — DPST, Gold Finish, Lt. Blue Body</b>								
1	4	22.50	CT206214-ND	.89	8.19	74.48	206-214	
<b>194-MST Series — SPST, Gold Finish, Sealed, Lt. Blue Body</b>								
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	3.36	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	.84	5.99	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	
	<b>195-MST Series — SPST, Tin Finish, Sealed, Black Body</b>							
	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	
<b>206-RAST Series — SPST, Gold Finish, Sealed, Lt. Blue Body</b>								
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	
	<b>209-LPST Series — SPST, Gold Finish, Flush, Sealed, Black Body</b>							
	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.	1	10	100	CTS Part No.	
4	7	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	6.82	61.97	209-10LPST	
	12	31.95	CT20912LPST-ND	.83	7.63	69.40	209-12LPST	
<b>209-MS Series — SPST, Gold Finish, Extended, Sealed, Black Body</b>								
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		
	31.95	CT20912MS-ND	.82	7.50	68.16	209-12MS		
	<b>219-LPST Series — SPST, Gold Finish, Flush, Sealed, Brown Body</b>							
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	
	<b>219-MS Series — SPST, Gold Finish, Extended, Sealed, Brown Body</b>							
	5	2	6.55	CT2192MS-ND	.27	2.46	22.31	219-2MS
3		9.09	CT2193MS-ND	.43	3.95	35.94	219-3MS	
4		11.63	CT2194MS-ND	.32	3.00	27.26	219-4MS	
5		14.17	CT2195MS-ND	.52	4.77	43.38	219-5MS	
6		16.71	CT2196MS-ND	.57	5.18	47.09	219-6MS	
7		19.25	CT2197MS-ND	.62	5.73	52.05	219-7MS	
8		21.79	CT2198MS-ND	.52	4.77	43.38	219-8MS	
9		24.33	CT2199MS-ND	.72	6.54	59.49	219-9MS	
10		26.87	CT21910MS-ND	.74	6.82	61.97	219-10MS	
12		31.95	CT21912MS-ND	.85	7.77	70.64	219-12MS	
<b>193 Series — SPST, Gold Finish, Brown Body</b>								
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	
	<b>204 Series — SPST, Tape Sealed, Gold Finish, Brown Body</b>							
7	2	7.26	CT2042ST-ND	.97	8.38	76.80	204-2ST	
	3	9.80	CT2043ST-ND	.99	8.77	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	9.82	81.79	204-10ST		
	32.66	CT20412ST-ND	1.14	9.75	89.37	204-12ST		
	<b>204 Series — SPDT, Tape Sealed, Gold Finish, Brown Body</b>							
7	1	7.26	CT204121ST-ND	1.07	9.19	84.22	204-121ST	
	7.26	CT204121LPST-ND	1.20	10.24	93.91	204-121LPST		
<b>204 Series — DPST, Tape Sealed, Gold Finish, Brown Body</b>								
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	