

RADIO CONSTRUCTORS DATA SHEET

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CAPACITIVE REACTANCE—AUDIO FREQUENCIES

The Table gives reactance in ohms at the capacitances and frequencies indicated. $X_C = \frac{1}{2\pi fC}$.

Capacitance	25 c/s	50 c/s	100 c/s	400 c/s	500 c/s	1 kc/s	5 kc/s	10 kc/s
50pF				3,980,000	3,180,000	3,180,000	637,000	318,000
100pF				1,990,000	1,270,000	1,590,000	318,000	159,000
250pF				796,000	637,000	637,000	127,000	63,700
500pF				398,000	318,000	318,000	63,700	31,800
1,000pF		3,180,000	3,180,000	159,000	127,000	159,000	31,800	15,900
2,500pF	2,550,000	1,270,000	637,000	79,600	63,700	63,700	12,700	6,370
5,000pF	1,270,000	637,000	318,000	39,800	31,800	31,800	6,370	3,180
0.01μF	637,000	318,000	159,000	19,900	15,900	15,900	3,180	1,590
0.02μF	318,000	159,000	79,600	9,960	6,370	3,180	1,590	796
0.05μF	127,000	63,700	31,800	3,980	3,180	1,590	637	318
0.1μF	63,700	31,800	15,900	1,990	1,590	796	318	159
0.2μF	31,800	15,900	7,960	996	637	318	159	79.6
0.5μF	12,700	6,370	3,180	398	318	159	63.7	31.8
1μF	6,370	3,180	1,590	199	159	79.6	31.8	15.9
2μF	3,180	1,590	796	99.6	63.7	31.8	15.9	7.96
5μF	1,270	637	318	39.8	31.8	15.9	6.37	3.18
10μF	637	318	159	19.9	15.9	7.96	3.18	1.59
20μF	318	159	79.6	9.96	6.37	3.18	1.59	0.796
50μF	127	63.7	31.8	3.98	3.18	1.59	0.637	0.318
100μF	63.7	31.8	15.9	1.99	1.59	0.796	0.318	0.159

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RADIO CONSTRUCTORS DATA SHEET

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CAPACITIVE REACTANCE—RADIO FREQUENCIES

The Table gives reactance in ohms at the capacitances and frequencies indicated. $X_C = \frac{1}{2\pi fC}$.

Capacitance	100 kc/s	300 kc/s	1 Mc/s	3 Mc/s	10 Mc/s	30 Mc/s	100 Mc/s	300 Mc/s
0.5pF	3,180,000	1,060,000	318,000	106,000	31,800	10,600	3,180	1,060
1pF	1,590,000	531,000	159,000	53,100	15,900	5,310	1,590	531
2pF	796,000	265,000	79,600	26,500	7,960	2,650	796	265
5pF	318,000	106,000	31,800	10,600	3,180	1,060	318	106
10pF	159,000	53,100	15,900	5,310	1,590	531	159	53.1
20pF	79,600	26,500	7,960	2,650	796	265	79.6	26.5
50pF	31,800	10,600	3,180	1,060	318	106	31.8	10.6
100pF	15,900	5,310	1,590	531	159	53.1	15.9	5.31
200pF	7,960	2,650	796	265	79.6	26.5	7.96	2.65
500pF	3,180	1,060	318	106	31.8	10.6	3.18	1.06
1,000pF	1,590	531	159	53.1	15.9	5.31	1.59	0.531
2,000pF	796	265	79.6	26.5	7.96	2.65	0.796	0.265
5,000pF	318	106	31.8	10.6	3.18	1.06	0.318	0.106
0.01μF	159	53.1	15.9	5.31	1.59	0.531	0.159	0.0531
0.02μF	79.6	26.5	7.96	2.65	0.796	0.265	0.0796	0.0265
0.05μF	31.8	10.6	3.18	1.06	0.318	0.106	0.0318	0.0106
0.1μF	15.9	5.31	1.59	0.531	0.159	0.0531	0.0159	0.00531
0.2μF	7.96	2.65	0.796	0.265	0.0796	0.0265	0.0080	0.0027
0.5μF	3.18	1.06	0.318	0.106	0.0318	0.0106	0.0032	0.0011