



MAY INC. Broadcast Transmission Line Systems, Filters & Combiners
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3 1/8" 50 Ohm Rigid Coaxial Transmission Line, FM Ratings and Efficiency in Percent

Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	250 ft	500 ft	750 ft	1000 ft	1250 ft	1500 ft	1750 ft	2000 ft
88.1	0.0872	55.751	95.10	90.44	86.01	81.80	77.79	73.98	70.36	66.91
88.3	0.0873	55.687	95.10	90.43	86.00	81.78	77.77	73.96	70.33	66.88
88.5	0.0874	55.624	95.09	90.42	85.98	81.76	77.75	73.93	70.30	66.85
88.7	0.0875	55.562	95.09	90.41	85.97	81.74	77.73	73.91	70.27	66.82
88.9	0.0876	55.499	95.08	90.40	85.95	81.73	77.70	73.88	70.25	66.79
89.1	0.0877	55.437	95.07	90.39	85.94	81.71	77.68	73.86	70.22	66.76
89.3	0.0878	55.375	95.07	90.38	85.93	81.69	77.66	73.83	70.19	66.73
89.5	0.0879	55.313	95.06	90.37	85.91	81.67	77.64	73.81	70.16	66.70
89.7	0.0880	55.251	95.06	90.36	85.90	81.65	77.62	73.78	70.14	66.67
89.9	0.0881	55.190	95.05	90.35	85.88	81.63	77.59	73.76	70.11	66.64
90.1	0.0882	55.128	95.05	90.34	85.87	81.61	77.57	73.73	70.08	66.61
90.3	0.0883	55.067	95.04	90.33	85.85	81.60	77.55	73.71	70.05	66.58
90.5	0.0884	55.006	95.04	90.32	85.84	81.58	77.53	73.68	70.02	66.55
90.7	0.0885	54.946	95.03	90.31	85.82	81.56	77.51	73.66	70.00	66.52
90.9	0.0886	54.885	95.03	90.30	85.81	81.54	77.49	73.63	69.97	66.49
91.1	0.0887	54.825	95.02	90.29	85.79	81.52	77.46	73.61	69.94	66.46
91.3	0.0888	54.765	95.02	90.28	85.78	81.50	77.44	73.58	69.91	66.43
91.5	0.0889	54.705	95.01	90.27	85.77	81.49	77.42	73.56	69.89	66.40
91.7	0.0890	54.645	95.01	90.26	85.75	81.47	77.40	73.53	69.86	66.37
91.9	0.0891	54.586	95.00	90.25	85.74	81.45	77.38	73.51	69.83	66.34
92.1	0.0892	54.527	94.99	90.24	85.72	81.43	77.36	73.48	69.81	66.31
92.3	0.0893	54.467	94.99	90.23	85.71	81.41	77.33	73.46	69.78	66.28
92.5	0.0894	54.408	94.98	90.22	85.69	81.40	77.31	73.43	69.75	66.25
92.7	0.0895	54.350	94.98	90.21	85.68	81.38	77.29	73.41	69.72	66.22
92.9	0.0896	54.291	94.97	90.20	85.67	81.36	77.27	73.39	69.70	66.19
93.1	0.0897	54.233	94.97	90.19	85.65	81.34	77.25	73.36	69.67	66.16
93.3	0.0898	54.175	94.96	90.18	85.64	81.32	77.23	73.34	69.64	66.13
93.5	0.0899	54.117	94.96	90.17	85.62	81.31	77.21	73.31	69.62	66.11
93.7	0.0900	54.059	94.95	90.16	85.61	81.29	77.18	73.29	69.59	66.08
93.9	0.0901	54.001	94.95	90.15	85.59	81.27	77.16	73.26	69.56	66.05
94.1	0.0902	53.944	94.94	90.14	85.58	81.25	77.14	73.24	69.54	66.02
94.3	0.0903	53.887	94.94	90.13	85.57	81.23	77.12	73.22	69.51	65.99
94.5	0.0904	53.830	94.93	90.12	85.55	81.22	77.10	73.19	69.48	65.96
94.7	0.0905	53.773	94.93	90.11	85.54	81.20	77.08	73.17	69.45	65.93
94.9	0.0906	53.716	94.92	90.10	85.52	81.18	77.06	73.14	69.43	65.90
95.1	0.0906	53.660	94.92	90.09	85.51	81.16	77.04	73.12	69.40	65.87
95.3	0.0907	53.603	94.91	90.08	85.50	81.14	77.01	73.09	69.37	65.84
95.5	0.0908	53.547	94.91	90.07	85.48	81.13	76.99	73.07	69.35	65.82
95.7	0.0909	53.491	94.90	90.06	85.47	81.11	76.97	73.05	69.32	65.79
95.9	0.0910	53.435	94.89	90.05	85.45	81.09	76.95	73.02	69.29	65.76
96.1	0.0911	53.380	94.89	90.04	85.44	81.07	76.93	73.00	69.27	65.73
96.3	0.0912	53.324	94.88	90.03	85.43	81.06	76.91	72.98	69.24	65.70
96.5	0.0913	53.269	94.88	90.02	85.41	81.04	76.89	72.95	69.22	65.67
96.7	0.0914	53.214	94.87	90.01	85.40	81.02	76.87	72.93	69.19	65.64
96.9	0.0915	53.159	94.87	90.00	85.38	81.00	76.85	72.90	69.16	65.61
97.1	0.0916	53.104	94.86	89.99	85.37	80.99	76.83	72.88	69.14	65.59
97.3	0.0917	53.049	94.86	89.98	85.36	80.97	76.80	72.86	69.11	65.56
97.5	0.0918	52.995	94.85	89.97	85.34	80.95	76.78	72.83	69.08	65.53
97.7	0.0919	52.941	94.85	89.96	85.33	80.93	76.76	72.81	69.06	65.50
97.9	0.0920	52.887	94.84	89.95	85.31	80.91	76.74	72.79	69.03	65.47

Standard Conditions:

Attenuation: Ambient Temperature 20°C (68°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0, 0KW

Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0



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Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	250 ft	500 ft	750 ft	1000 ft	1250 ft	1500 ft	1750 ft	2000 ft
98.1	0.0921	52.833	94.84	89.94	85.30	80.90	76.72	72.76	69.01	65.44
98.3	0.0922	52.779	94.83	89.93	85.29	80.88	76.70	72.74	68.98	65.42
98.5	0.0923	52.725	94.83	89.92	85.27	80.86	76.68	72.71	68.95	65.39
98.7	0.0923	52.672	94.82	89.91	85.26	80.84	76.66	72.69	68.93	65.36
98.9	0.0924	52.619	94.82	89.90	85.25	80.83	76.64	72.67	68.90	65.33
99.1	0.0925	52.565	94.81	89.89	85.23	80.81	76.62	72.64	68.88	65.30
99.3	0.0926	52.513	94.81	89.88	85.22	80.79	76.60	72.62	68.85	65.27
99.5	0.0927	52.460	94.80	89.88	85.20	80.78	76.58	72.60	68.82	65.25
99.7	0.0928	52.407	94.80	89.87	85.19	80.76	76.56	72.57	68.80	65.22
99.9	0.0929	52.355	94.79	89.86	85.18	80.74	76.54	72.55	68.77	65.19
100.1	0.0930	52.302	94.79	89.85	85.16	80.72	76.52	72.53	68.75	65.16
100.3	0.0931	52.250	94.78	89.84	85.15	80.71	76.50	72.50	68.72	65.14
100.5	0.0932	52.198	94.78	89.83	85.14	80.69	76.47	72.48	68.70	65.11
100.7	0.0933	52.146	94.77	89.82	85.12	80.67	76.45	72.46	68.67	65.08
100.9	0.0934	52.095	94.77	89.81	85.11	80.65	76.43	72.43	68.64	65.05
101.1	0.0935	52.043	94.76	89.80	85.09	80.64	76.41	72.41	68.62	65.02
101.3	0.0936	51.992	94.76	89.79	85.08	80.62	76.39	72.39	68.59	65.00
101.5	0.0936	51.940	94.75	89.78	85.07	80.60	76.37	72.37	68.57	64.97
101.7	0.0937	51.889	94.75	89.77	85.05	80.59	76.35	72.34	68.54	64.94
101.9	0.0938	51.838	94.74	89.76	85.04	80.57	76.33	72.32	68.52	64.91
102.1	0.0939	51.787	94.74	89.75	85.03	80.55	76.31	72.30	68.49	64.89
102.3	0.0940	51.737	94.73	89.74	85.01	80.53	76.29	72.27	68.47	64.86
102.5	0.0941	51.686	94.73	89.73	85.00	80.52	76.27	72.25	68.44	64.83
102.7	0.0942	51.636	94.72	89.72	84.99	80.50	76.25	72.23	68.41	64.80
102.9	0.0943	51.586	94.72	89.71	84.97	80.48	76.23	72.20	68.39	64.78
103.1	0.0944	51.536	94.71	89.70	84.96	80.47	76.21	72.18	68.36	64.75
103.3	0.0945	51.486	94.71	89.69	84.95	80.45	76.19	72.16	68.34	64.72
103.5	0.0946	51.436	94.70	89.68	84.93	80.43	76.17	72.14	68.31	64.69
103.7	0.0947	51.386	94.70	89.68	84.92	80.42	76.15	72.11	68.29	64.67
103.9	0.0947	51.337	94.69	89.67	84.91	80.40	76.13	72.09	68.26	64.64
104.1	0.0948	51.288	94.69	89.66	84.89	80.38	76.11	72.07	68.24	64.61
104.3	0.0949	51.238	94.68	89.65	84.88	80.37	76.09	72.05	68.21	64.59
104.5	0.0950	51.189	94.68	89.64	84.87	80.35	76.07	72.02	68.19	64.56
104.7	0.0951	51.140	94.67	89.63	84.85	80.33	76.05	72.00	68.16	64.53
104.9	0.0952	51.092	94.67	89.62	84.84	80.32	76.03	71.98	68.14	64.51
105.1	0.0953	51.043	94.66	89.61	84.83	80.30	76.01	71.95	68.11	64.48
105.3	0.0954	50.994	94.66	89.60	84.81	80.28	75.99	71.93	68.09	64.45
105.5	0.0955	50.946	94.65	89.59	84.80	80.26	75.97	71.91	68.06	64.42
105.7	0.0956	50.898	94.65	89.58	84.79	80.25	75.95	71.89	68.04	64.40
105.9	0.0957	50.850	94.64	89.57	84.77	80.23	75.93	71.86	68.01	64.37
106.1	0.0957	50.802	94.64	89.56	84.76	80.21	75.91	71.84	67.99	64.34
106.3	0.0958	50.754	94.63	89.55	84.75	80.20	75.89	71.82	67.97	64.32
106.5	0.0959	50.706	94.63	89.54	84.73	80.18	75.87	71.80	67.94	64.29
106.7	0.0960	50.659	94.62	89.53	84.72	80.16	75.85	71.78	67.92	64.26
106.9	0.0961	50.611	94.62	89.53	84.71	80.15	75.83	71.75	67.89	64.24
107.1	0.0962	50.564	94.61	89.52	84.69	80.13	75.81	71.73	67.87	64.21
107.3	0.0963	50.517	94.61	89.51	84.68	80.12	75.80	71.71	67.84	64.18
107.5	0.0964	50.470	94.60	89.50	84.67	80.10	75.78	71.69	67.82	64.16
107.7	0.0965	50.423	94.60	89.49	84.65	80.08	75.76	71.66	67.79	64.13
107.9	0.0966	50.376	94.59	89.48	84.64	80.07	75.74	71.64	67.77	64.10

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Average Power: Ambient Temperature 40°C (104°F), Inner Conductor Temperature 100°C (212°F), Dry Air, Sea Level Atmospheric Pressure, VSWR 1.0