

## 4 1/16" 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	0.06917	88.492	96.10	92.35	88.74	85.28	81.95	78.75	75.67	72.72
88.3	0.06925	88.392	96.09	92.34	88.73	85.26	81.93	78.73	75.65	72.69
88.5	0.06933	88.292	96.09	92.33	88.72	85.25	81.91	78.71	75.63	72.67
88.7	0.06941	88.192	96.08	92.32	88.70	85.23	81.89	78.68	75.60	72.64
88.9	0.06948	88.093	96.08	92.31	88.69	85.21	81.87	78.66	75.58	72.62
89.1	0.06956	87.994	96.07	92.30	88.68	85.20	81.86	78.64	75.56	72.59
89.3	0.06964	87.895	96.07	92.30	88.67	85.18	81.84	78.62	75.53	72.56
89.5	0.06972	87.797	96.07	92.29	88.66	85.17	81.82	78.60	75.51	72.54
89.7	0.06980	87.699	96.06	92.28	88.64	85.15	81.80	78.58	75.48	72.51
89.9	0.06987	87.602	96.06	92.27	88.63	85.14	81.78	78.56	75.46	72.49
90.1	0.06995	87.504	96.05	92.26	88.62	85.12	81.76	78.54	75.44	72.46
90.3	0.07003	87.407	96.05	92.25	88.61	85.11	81.75	78.52	75.41	72.43
90.5	0.07011	87.311	96.04	92.25	88.60	85.09	81.73	78.49	75.39	72.41
90.7	0.07018	87.214	96.04	92.24	88.59	85.08	81.71	78.47	75.37	72.38
90.9	0.07026	87.118	96.04	92.23	88.57	85.06	81.69	78.45	75.34	72.36
91.1	0.07034	87.023	96.03	92.22	88.56	85.05	81.67	78.43	75.32	72.33
91.3	0.07042	86.927	96.03	92.21	88.55	85.03	81.65	78.41	75.30	72.30
91.5	0.07049	86.832	96.02	92.20	88.54	85.02	81.64	78.39	75.27	72.28
91.7	0.07057	86.738	96.02	92.20	88.53	85.00	81.62	78.37	75.25	72.25
91.9	0.07065	86.643	96.01	92.19	88.51	84.99	81.60	78.35	75.23	72.23
92.1	0.07072	86.549	96.01	92.18	88.50	84.97	81.58	78.33	75.20	72.20
92.3	0.07080	86.455	96.01	92.17	88.49	84.96	81.56	78.31	75.18	72.18
92.5	0.07088	86.362	96.00	92.16	88.48	84.94	81.55	78.29	75.16	72.15
92.7	0.07095	86.268	96.00	92.16	88.47	84.93	81.53	78.27	75.13	72.13
92.9	0.07103	86.176	95.99	92.15	88.46	84.91	81.51	78.24	75.11	72.10
93.1	0.07111	86.083	95.99	92.14	88.44	84.90	81.49	78.22	75.09	72.08
93.3	0.07118	85.991	95.99	92.13	88.43	84.88	81.47	78.20	75.06	72.05
93.5	0.07126	85.899	95.98	92.12	88.42	84.87	81.46	78.18	75.04	72.02
93.7	0.07134	85.807	95.98	92.12	88.41	84.85	81.44	78.16	75.02	72.00
93.9	0.07141	85.715	95.97	92.11	88.40	84.84	81.42	78.14	74.99	71.97
94.1	0.07149	85.624	95.97	92.10	88.39	84.82	81.40	78.12	74.97	71.95
94.3	0.07156	85.533	95.96	92.09	88.37	84.81	81.39	78.10	74.95	71.92
94.5	0.07164	85.443	95.96	92.08	88.36	84.79	81.37	78.08	74.93	71.90
94.7	0.07172	85.353	95.96	92.08	88.35	84.78	81.35	78.06	74.90	71.87
94.9	0.07179	85.263	95.95	92.07	88.34	84.76	81.33	78.04	74.88	71.85
95.1	0.07187	85.173	95.95	92.06	88.33	84.75	81.31	78.02	74.86	71.82
95.3	0.07194	85.084	95.94	92.05	88.32	84.73	81.30	78.00	74.83	71.80
95.5	0.07202	84.994	95.94	92.04	88.31	84.72	81.28	77.98	74.81	71.77
95.7	0.07209	84.906	95.93	92.04	88.29	84.70	81.26	77.96	74.79	71.75
95.9	0.07217	84.817	95.93	92.03	88.28	84.69	81.24	77.94	74.77	71.72
96.1	0.07224	84.729	95.93	92.02	88.27	84.68	81.23	77.92	74.74	71.70
96.3	0.07232	84.641	95.92	92.01	88.26	84.66	81.21	77.90	74.72	71.67
96.5	0.07239	84.553	95.92	92.00	88.25	84.65	81.19	77.88	74.70	71.65
96.7	0.07247	84.465	95.91	92.00	88.24	84.63	81.17	77.86	74.68	71.62
96.9	0.07254	84.378	95.91	91.99	88.23	84.62	81.16	77.84	74.65	71.60
97.1	0.07262	84.291	95.91	91.98	88.21	84.60	81.14	77.82	74.63	71.58
97.3	0.07269	84.205	95.90	91.97	88.20	84.59	81.12	77.80	74.61	71.55
97.5	0.07277	84.118	95.90	91.96	88.19	84.57	81.10	77.78	74.59	71.53
97.7	0.07284	84.032	95.89	91.96	88.18	84.56	81.09	77.76	74.56	71.50
97.9	0.07292	83.946	95.89	91.95	88.17	84.54	81.07	77.74	74.54	71.48

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	0.07299	83.860	95.89	91.94	88.16	84.53	81.05	77.72	74.52	71.45
98.3	0.07307	83.775	95.88	91.93	88.15	84.52	81.03	77.70	74.50	71.43
98.5	0.07314	83.690	95.88	91.92	88.13	84.50	81.02	77.68	74.47	71.40
98.7	0.07321	83.605	95.87	91.92	88.12	84.49	81.00	77.66	74.45	71.38
98.9	0.07329	83.521	95.87	91.91	88.11	84.47	80.98	77.64	74.43	71.35
99.1	0.07336	83.436	95.86	91.90	88.10	84.46	80.96	77.62	74.41	71.33
99.3	0.07344	83.352	95.86	91.89	88.09	84.44	80.95	77.60	74.39	71.31
99.5	0.07351	83.268	95.86	91.89	88.08	84.43	80.93	77.58	74.36	71.28
99.7	0.07358	83.185	95.85	91.88	88.07	84.41	80.91	77.56	74.34	71.26
99.9	0.07366	83.102	95.85	91.87	88.06	84.40	80.90	77.54	74.32	71.23
100.1	0.07373	83.019	95.84	91.86	88.04	84.39	80.88	77.52	74.30	71.21
100.3	0.07381	82.936	95.84	91.85	88.03	84.37	80.86	77.50	74.27	71.19
100.5	0.07388	82.853	95.84	91.85	88.02	84.36	80.84	77.48	74.25	71.16
100.7	0.07395	82.771	95.83	91.84	88.01	84.34	80.83	77.46	74.23	71.14
100.9	0.07403	82.689	95.83	91.83	88.00	84.33	80.81	77.44	74.21	71.11
101.1	0.07410	82.607	95.82	91.82	87.99	84.31	80.79	77.42	74.19	71.09
101.3	0.07417	82.525	95.82	91.82	87.98	84.30	80.78	77.40	74.16	71.06
101.5	0.07425	82.444	95.82	91.81	87.97	84.29	80.76	77.38	74.14	71.04
101.7	0.07432	82.363	95.81	91.80	87.96	84.27	80.74	77.36	74.12	71.02
101.9	0.07439	82.282	95.81	91.79	87.94	84.26	80.73	77.34	74.10	70.99
102.1	0.07446	82.201	95.80	91.78	87.93	84.24	80.71	77.32	74.08	70.97
102.3	0.07454	82.121	95.80	91.78	87.92	84.23	80.69	77.30	74.06	70.95
102.5	0.07461	82.041	95.80	91.77	87.91	84.22	80.67	77.28	74.03	70.92
102.7	0.07468	81.961	95.79	91.76	87.90	84.20	80.66	77.26	74.01	70.90
102.9	0.07476	81.881	95.79	91.75	87.89	84.19	80.64	77.24	73.99	70.87
103.1	0.07483	81.802	95.78	91.75	87.88	84.17	80.62	77.22	73.97	70.85
103.3	0.07490	81.723	95.78	91.74	87.87	84.16	80.61	77.21	73.95	70.83
103.5	0.07497	81.644	95.78	91.73	87.86	84.14	80.59	77.19	73.93	70.80
103.7	0.07505	81.565	95.77	91.72	87.84	84.13	80.57	77.17	73.90	70.78
103.9	0.07512	81.486	95.77	91.72	87.83	84.12	80.56	77.15	73.88	70.76
104.1	0.07519	81.408	95.76	91.71	87.82	84.10	80.54	77.13	73.86	70.73
104.3	0.07526	81.330	95.76	91.70	87.81	84.09	80.52	77.11	73.84	70.71
104.5	0.07533	81.252	95.76	91.69	87.80	84.07	80.51	77.09	73.82	70.69
104.7	0.07541	81.174	95.75	91.68	87.79	84.06	80.49	77.07	73.80	70.66
104.9	0.07548	81.097	95.75	91.68	87.78	84.05	80.47	77.05	73.78	70.64
105.1	0.07555	81.020	95.74	91.67	87.77	84.03	80.46	77.03	73.75	70.62
105.3	0.07562	80.943	95.74	91.66	87.76	84.02	80.44	77.01	73.73	70.59
105.5	0.07569	80.866	95.74	91.65	87.75	84.01	80.42	76.99	73.71	70.57
105.7	0.07577	80.789	95.73	91.65	87.74	83.99	80.41	76.98	73.69	70.55
105.9	0.07584	80.713	95.73	91.64	87.72	83.98	80.39	76.96	73.67	70.52
106.1	0.07591	80.637	95.72	91.63	87.71	83.96	80.37	76.94	73.65	70.50
106.3	0.07598	80.561	95.72	91.62	87.70	83.95	80.36	76.92	73.63	70.48
106.5	0.07605	80.485	95.72	91.62	87.69	83.94	80.34	76.90	73.61	70.45
106.7	0.07612	80.410	95.71	91.61	87.68	83.92	80.32	76.88	73.58	70.43
106.9	0.07619	80.335	95.71	91.60	87.67	83.91	80.31	76.86	73.56	70.41
107.1	0.07627	80.260	95.70	91.59	87.66	83.89	80.29	76.84	73.54	70.38
107.3	0.07634	80.185	95.70	91.59	87.65	83.88	80.27	76.82	73.52	70.36
107.5	0.07641	80.110	95.70	91.58	87.64	83.87	80.26	76.80	73.50	70.34
107.7	0.07648	80.036	95.69	91.57	87.63	83.85	80.24	76.79	73.48	70.31
107.9	0.07655	79.962	95.69	91.56	87.62	83.84	80.23	76.77	73.46	70.29

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