1 5/8” 50 Ohm Rigid Coaxial Transmission Line, TV Ratings and Efficiency in Percent

CH #	Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	200 ft	300 ft	400 ft	500 ft	600 ft	700 ft	800 ft	900 ft
2	54	0.140	20.344	93.78	90.81	87.94	85.16	82.46	79.86	77.33	74.89
3	60	0.147	19.300	93.45	90.34	87.33	84.42	81.61	78.89	76.26	73.72
4	66	0.154	18.402	93.14	89.89	86.75	83.73	80.80	77.98	75.26	72.63
5	76	0.166	17.148	92.66	89.19	85.86	82.65	79.55	76.58	73.71	70.96
6	82	0.172	16.509	92.39	88.80	85.35	82.04	78.85	75.79	72.85	70.02
7	174	0.251	11.333	89.10	84.11	79.40	74.95	70.74	66.78	63.04	59.50
8	180	0.255	11.143	88.93	83.86	79.08	74.58	70.33	66.32	62.54	58.98
9	186	0.259	10.962	88.76	83.62	78.78	74.22	69.92	65.87	62.06	58.46
10	192	0.263	10.789	88.59	83.38	78.48	73.86	69.52	65.43	61.59	57.96
11	198	0.267	10.624	88.42	83.14	78.18	73.52	69.13	65.00	61.12	57.48
12	204	0.271	10.467	88.26	82.91	77.89	73.18	68.75	64.58	60.67	57.00
13	210	0.275	10.316	88.10	82.69	77.61	72.84	68.37	64.17	60.23	56.53
14	470	0.412	6.896	82.73	75.25	68.44	62.25	56.62	51.50	46.84	42.60
15	476	0.414	6.852	82.63	75.11	68.28	62.06	56.42	51.28	46.62	42.37
16	482	0.417	6.809	82.53	74.98	68.11	61.88	56.21	51.07	46.39	42.15
17	488	0.420	6.767	82.43	74.84	67.95	61.69	56.01	50.85	46.17	41.92
18	494	0.422	6.726	82.33	74.71	67.79	61.51	55.81	50.64	45.95	41.70
19	500	0.425	6.686	82.24	74.58	67.63	61.33	55.62	50.44	45.74	41.48
20	506	0.427	6.646	82.14	74.45	67.47	61.15	55.42	50.23	45.52	41.26
21	512	0.430	6.607	82.05	74.32	67.31	60.97	55.23	50.03	45.31	41.04
22	518	0.432	6.568	81.95	74.19	67.16	60.80	55.04	49.82	45.10	40.83
23	524	0.435	6.531	81.86	74.06	67.01	60.62	54.85	49.62	44.90	40.62
24	530	0.437	6.494	81.76	73.93	66.85	60.45	54.66	49.43	44.69	40.41
25	536	0.440	6.457	81.67	73.81	66.70	60.28	54.47	49.23	44.49	40.21
26	542	0.442	6.421	81.58	73.68	66.55	60.11	54.29	49.04	44.29	40.00
27	548	0.445	6.386	81.49	73.56	66.40	59.94	54.11	48.84	44.09	39.80
28	554	0.447	6.351	81.40	73.43	66.25	59.77	53.93	48.65	43.89	39.60
29	560	0.449	6.317	81.30	73.31	66.10	59.61	53.75	48.46	43.70	39.40
30	566	0.452	6.284	81.22	73.19	65.96	59.44	53.57	48.28	43.51	39.21
31	572	0.454	6.251	81.13	73.07	65.81	59.28	53.39	48.09	43.31	39.01
32	578	0.457	6.218	81.04	72.95	65.67	59.12	53.22	47.91	43.13	38.82
33	584	0.459	6.186	80.95	72.83	65.53	58.96	53.04	47.72	42.94	38.63
34	590	0.461	6.155	80.86	72.71	65.39	58.80	52.87	47.54	42.75	38.44
35	596	0.464	6.124	80.77	72.60	65.24	58.64	52.70	47.36	42.57	38.26

CH #	Freq. MHz	ATTEN. in dB/100 ft	Average Power (Kilowatts)	200 ft	300 ft	400 ft	500 ft	600 ft	700 ft	800 ft	900 ft
36	602	0.466	6.093	80.69	72.48	65.11	58.48	52.53	47.19	42.39	38.07
37	608	0.468	6.063	80.60	72.36	64.97	58.33	52.36	47.01	42.21	37.89
38	614	0.471	6.033	80.52	72.25	64.83	58.17	52.20	46.84	42.03	37.71
39	620	0.473	6.004	80.43	72.13	64.69	58.02	52.03	46.66	41.85	37.53
40	626	0.475	5.975	80.35	72.02	64.56	57.87	51.87	46.49	41.67	37.36
41	632	0.477	5.947	80.26	71.91	64.42	57.71	51.71	46.32	41.50	37.18
42	638	0.480	5.919	80.18	71.79	64.29	57.56	51.54	46.15	41.33	37.01
43	644	0.482	5.891	80.10	71.68	64.15	57.42	51.38	45.99	41.16	36.83
44	650	0.484	5.864	80.01	71.57	64.02	57.27	51.23	45.82	40.99	36.66
45	656	0.486	5.837	79.93	71.46	63.89	57.12	51.07	45.66	40.82	36.49
46	662	0.489	5.810	79.85	71.35	63.76	56.97	50.91	45.49	40.65	36.33
47	668	0.491	5.784	79.77	71.24	63.63	56.83	50.76	45.33	40.49	36.16
48	674	0.493	5.758	79.69	71.14	63.50	56.69	50.60	45.17	40.32	36.00
49	680	0.495	5.733	79.61	71.03	63.37	56.54	50.45	45.01	40.16	35.83
50	686	0.497	5.708	79.53	70.92	63.25	56.40	50.30	44.86	40.00	35.67
51	692	0.500	5.683	79.45	70.82	63.12	56.26	50.15	44.70	39.84	35.51
52	698	0.502	5.658	79.37	70.71	62.99	56.12	50.00	44.54	39.68	35.35
53	704	0.504	5.634	79.29	70.60	62.87	55.98	49.85	44.39	39.53	35.20
54	710	0.506	5.610	79.21	70.50	62.75	55.84	49.70	44.24	39.37	35.04
55	716	0.508	5.587	79.13	70.40	62.62	55.71	49.56	44.08	39.22	34.89
56	722	0.510	5.564	79.06	70.29	62.50	55.57	49.41	43.93	39.06	34.73
57	728	0.512	5.541	78.98	70.19	62.38	55.44	49.27	43.78	38.91	34.58
58	734	0.515	5.518	78.90	70.09	62.26	55.30	49.12	43.64	38.76	34.43
59	740	0.517	5.496	78.83	69.99	62.14	55.17	48.98	43.49	38.61	34.28
60	746	0.519	5.473	78.75	69.89	62.02	55.04	48.84	43.34	38.46	34.13
61	752	0.521	5.452	78.68	69.79	61.90	54.90	48.70	43.20	38.31	33.99
62	758	0.523	5.430	78.60	69.69	61.78	54.77	48.56	43.05	38.17	33.84
63	764	0.525	5.409	78.53	69.59	61.66	54.64	48.42	42.91	38.02	33.69
64	770	0.527	5.387	78.45	69.49	61.55	54.51	48.28	42.77	37.88	33.55
65	776	0.529	5.367	78.38	69.39	61.43	54.39	48.15	42.63	37.74	33.41
66	782	0.531	5.346	78.30	69.29	61.32	54.26	48.01	42.49	37.60	33.27
67	788	0.533	5.326	78.23	69.19	61.20	54.13	47.88	42.35	37.46	33.13
68	794	0.535	5.305	78.16	69.10	61.09	54.00	47.74	42.21	37.32	32.99
69	800	0.537	5.285	78.09	69.00	60.97	53.88	47.61	42.07	37.18	32.85

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