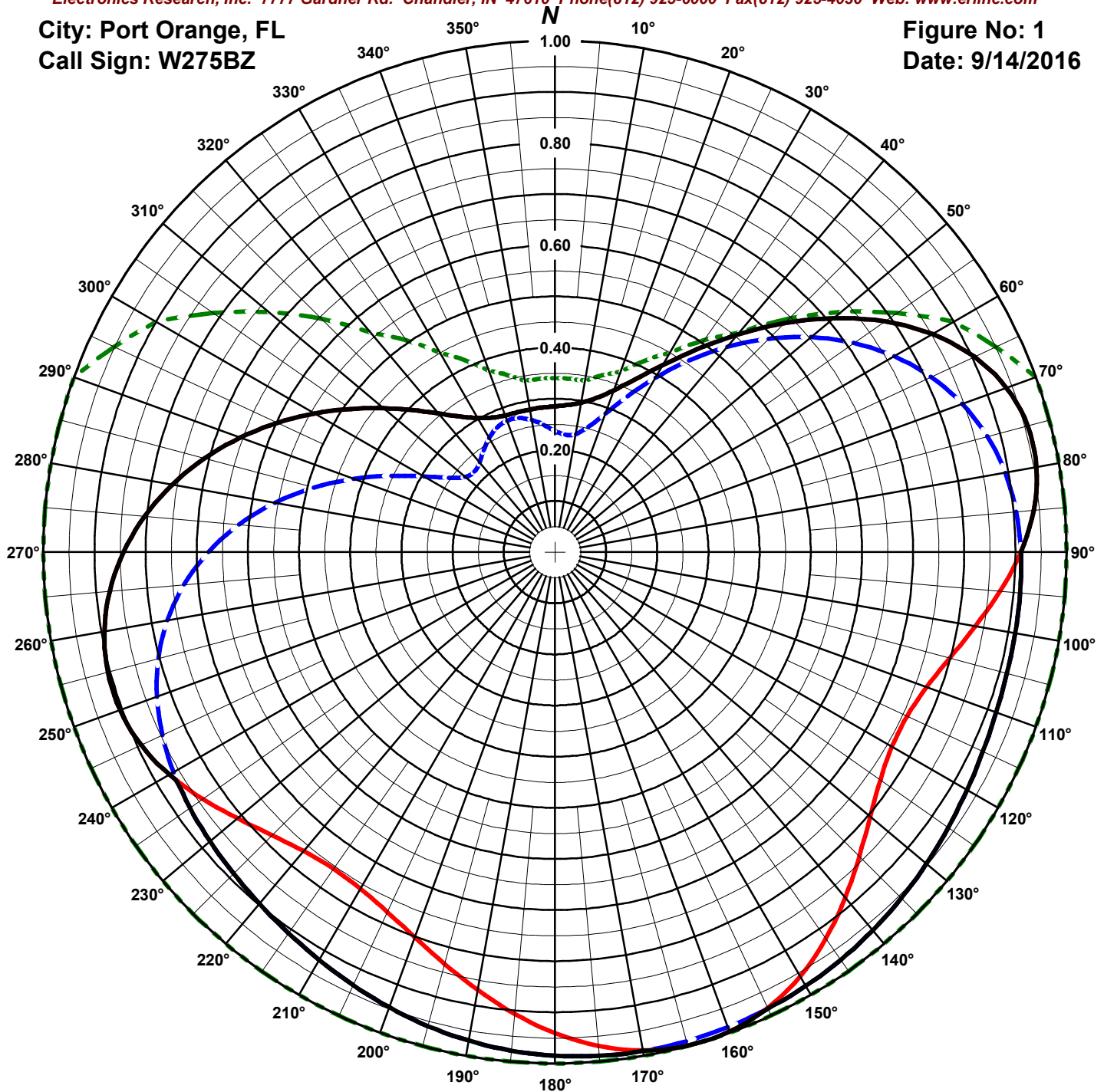


ERI® Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, IN 47610 Phone(812) 925-6000 Fax(812) 925-4030 Web: www.eriinc.com

City: Port Orange, FL
Call Sign: W275BZ

Figure No: 1
Date: 9/14/2016



Antenna Orientation: 160° True

Frequency: 102.9 MHz
Antenna Type: 100A-1M-DA

Antenna Mounting: Custom
Tower Type: 48" face tower

HORIZONTAL

RMS: .743

Maximum: 1 @ 163°

Minimum: .283 @ 346°

VERTICAL

RMS: .743

Maximum: .991 @ 168°

Minimum: .222 @ 315°

COMPOSITE

RMS: .784

Maximum: 1 @ 163°

Minimum: .283 @ 346°

FCC ENVELOPE

RMS: .871

Maximum: 1 @ 70°

Minimum: .34 @ 0°

Patterns of the horizontal and vertical components, with the composite maximum of either the H or V components and the filed FCC envelope pattern BMPFT-20160205AEM.

ERI[®] Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, IN 47610 Phone(812) 925-6000 Fax(812) 925-4030 Web: www.eriinc.com

Figure# 1

Date: 9/14/2016

Station: W275BZ

Antenna: 100A-1M-DA

Location: Port Orange, FL

Antenna Orientation: 160° True

Frequency: 102.9 MHz

Number of Bays: 1

Azimuth	Envelope			Polarization	Azimuth	Envelope			Polarization
	Field	kW	dBk	Maximum		Field	kW	dBk	Maximum
0°	0.285	0.020	-16.922	Horizontal	180°	0.985	0.243	-6.152	Vertical
5°	0.289	0.021	-16.809	Horizontal	185°	0.979	0.240	-6.207	Vertical
10°	0.297	0.022	-16.570	Horizontal	190°	0.970	0.235	-6.283	Vertical
15°	0.312	0.024	-16.140	Horizontal	195°	0.960	0.230	-6.379	Vertical
20°	0.337	0.028	-15.477	Horizontal	200°	0.947	0.224	-6.491	Vertical
25°	0.373	0.035	-14.584	Horizontal	205°	0.934	0.218	-6.613	Vertical
30°	0.422	0.045	-13.508	Horizontal	210°	0.921	0.212	-6.736	Vertical
35°	0.484	0.058	-12.329	Horizontal	215°	0.909	0.206	-6.852	Vertical
40°	0.555	0.077	-11.135	Horizontal	220°	0.898	0.202	-6.956	Vertical
45°	0.633	0.100	-9.999	Horizontal	225°	0.888	0.197	-7.048	Vertical
50°	0.711	0.127	-8.978	Horizontal	230°	0.880	0.194	-7.132	Vertical
55°	0.786	0.155	-8.109	Horizontal	235°	0.871	0.190	-7.219	Vertical
60°	0.852	0.181	-7.412	Horizontal	240°	0.870	0.189	-7.229	Horizontal
65°	0.904	0.204	-6.897	Horizontal	245°	0.892	0.199	-7.009	Horizontal
70°	0.939	0.221	-6.565	Horizontal	250°	0.904	0.205	-6.893	Horizontal
75°	0.956	0.229	-6.409	Horizontal	255°	0.905	0.205	-6.889	Horizontal
80°	0.956	0.228	-6.415	Horizontal	260°	0.894	0.200	-6.991	Horizontal
85°	0.939	0.221	-6.565	Horizontal	265°	0.873	0.191	-7.197	Horizontal
90°	0.911	0.207	-6.833	Vertical	270°	0.843	0.178	-7.504	Horizontal
95°	0.913	0.208	-6.813	Vertical	275°	0.805	0.162	-7.910	Horizontal
100°	0.914	0.209	-6.806	Vertical	280°	0.759	0.144	-8.413	Horizontal
105°	0.915	0.209	-6.794	Vertical	285°	0.709	0.126	-9.012	Horizontal
110°	0.918	0.211	-6.767	Vertical	290°	0.654	0.107	-9.704	Horizontal
115°	0.923	0.213	-6.718	Vertical	295°	0.598	0.089	-10.482	Horizontal
120°	0.930	0.216	-6.651	Vertical	300°	0.542	0.074	-11.337	Horizontal
125°	0.939	0.220	-6.571	Vertical	305°	0.488	0.060	-12.252	Horizontal
130°	0.948	0.225	-6.485	Vertical	310°	0.437	0.048	-13.202	Horizontal
135°	0.957	0.229	-6.400	Vertical	315°	0.392	0.038	-14.150	Horizontal
140°	0.966	0.233	-6.322	Vertical	320°	0.354	0.031	-15.045	Horizontal
145°	0.974	0.237	-6.253	Vertical	325°	0.324	0.026	-15.820	Horizontal
150°	0.980	0.240	-6.196	Vertical	330°	0.302	0.023	-16.408	Horizontal
155°	0.985	0.243	-6.152	Vertical	335°	0.290	0.021	-16.771	Horizontal
160°	0.998	0.249	-6.041	Horizontal	340°	0.285	0.020	-16.939	Horizontal
165°	0.999	0.250	-6.028	Horizontal	345°	0.283	0.020	-16.986	Horizontal
170°	0.991	0.245	-6.102	Vertical	350°	0.283	0.020	-16.981	Horizontal
175°	0.989	0.244	-6.117	Vertical	355°	0.284	0.020	-16.960	Horizontal

Horizontal Polarization:

Maximum: 0.723 (-1.409 dB)

Horizontal Plane: 0.723 (-1.409 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.710 (-1.489 dB)

Horizontal Plane: 0.710 (-1.489 dB)

Maximum ERP: 0.245 kW

Total Input Power: 0.346 kW

Reference: W275BZ1M.FIG

This list shows the the maximum azimuth values of either the horizontal or vertical components.

ERI[®] Horizontal Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, IN 47610 Phone(812) 925-6000 Fax(812) 925-4030 Web: www.eriinc.com

Figure# 1A

Date: 9/14/2016

Station: W275BZ

Antenna: 100A-1M-DA

Location: Port Orange, FL

Antenna Orientation: 160° True

Frequency: 102.9 MHz

Number of Bays: 1

Azimuth	Horizontal			Vertical			Azimuth	Horizontal			Vertical		
	Field	kW	dBk	Field	kW	dBk		Field	kW	dBk	Field	kW	dBk
0°	0.285	0.020	-16.922	0.237	0.014	-18.536	180°	0.941	0.221	-6.553	0.985	0.243	-6.152
5°	0.289	0.021	-16.809	0.230	0.013	-18.782	185°	0.906	0.205	-6.875	0.979	0.240	-6.207
10°	0.297	0.022	-16.570	0.234	0.014	-18.620	190°	0.869	0.189	-7.235	0.970	0.235	-6.283
15°	0.312	0.024	-16.140	0.253	0.016	-17.941	195°	0.833	0.174	-7.604	0.960	0.230	-6.379
20°	0.337	0.028	-15.477	0.288	0.021	-16.832	200°	0.801	0.161	-7.945	0.947	0.224	-6.491
25°	0.373	0.035	-14.584	0.336	0.028	-15.495	205°	0.776	0.151	-8.222	0.934	0.218	-6.613
30°	0.422	0.045	-13.508	0.394	0.039	-14.117	210°	0.760	0.144	-8.402	0.921	0.212	-6.736
35°	0.484	0.058	-12.329	0.457	0.052	-12.814	215°	0.756	0.143	-8.454	0.909	0.206	-6.852
40°	0.555	0.077	-11.135	0.524	0.069	-11.638	220°	0.763	0.146	-8.365	0.898	0.202	-6.956
45°	0.633	0.100	-9.999	0.590	0.087	-10.604	225°	0.783	0.153	-8.150	0.888	0.197	-7.048
50°	0.711	0.127	-8.978	0.654	0.107	-9.714	230°	0.810	0.164	-7.851	0.880	0.194	-7.132
55°	0.786	0.155	-8.109	0.713	0.127	-8.962	235°	0.841	0.177	-7.525	0.871	0.190	-7.219
60°	0.852	0.181	-7.412	0.766	0.147	-8.341	240°	0.870	0.189	-7.229	0.861	0.185	-7.324
65°	0.904	0.204	-6.897	0.811	0.164	-7.843	245°	0.892	0.199	-7.009	0.847	0.179	-7.466
70°	0.939	0.221	-6.565	0.847	0.179	-7.460	250°	0.904	0.205	-6.893	0.828	0.171	-7.663
75°	0.956	0.229	-6.409	0.875	0.191	-7.182	255°	0.905	0.205	-6.889	0.802	0.161	-7.935
80°	0.956	0.228	-6.415	0.894	0.200	-6.997	260°	0.894	0.200	-6.991	0.769	0.148	-8.304
85°	0.939	0.221	-6.565	0.905	0.205	-6.887	265°	0.873	0.191	-7.197	0.727	0.132	-8.787
90°	0.910	0.207	-6.837	0.911	0.207	-6.833	270°	0.843	0.178	-7.504	0.677	0.115	-9.405
95°	0.873	0.191	-7.195	0.913	0.208	-6.813	275°	0.805	0.162	-7.910	0.620	0.096	-10.178
100°	0.834	0.174	-7.593	0.914	0.209	-6.806	280°	0.759	0.144	-8.413	0.556	0.077	-11.125
105°	0.799	0.160	-7.969	0.915	0.209	-6.794	285°	0.709	0.126	-9.012	0.488	0.059	-12.261
110°	0.773	0.149	-8.259	0.918	0.211	-6.767	290°	0.654	0.107	-9.704	0.418	0.044	-13.588
115°	0.759	0.144	-8.411	0.923	0.213	-6.718	295°	0.598	0.089	-10.482	0.353	0.031	-15.070
120°	0.761	0.145	-8.396	0.930	0.216	-6.651	300°	0.542	0.074	-11.337	0.296	0.022	-16.597
125°	0.776	0.151	-8.219	0.939	0.220	-6.571	305°	0.488	0.060	-12.252	0.253	0.016	-17.943
130°	0.804	0.162	-7.911	0.948	0.225	-6.485	310°	0.437	0.048	-13.202	0.229	0.013	-18.826
135°	0.841	0.177	-7.522	0.957	0.229	-6.400	315°	0.392	0.038	-14.150	0.222	0.012	-19.085
140°	0.882	0.195	-7.107	0.966	0.233	-6.322	320°	0.354	0.031	-15.045	0.229	0.013	-18.825
145°	0.923	0.213	-6.716	0.974	0.237	-6.253	325°	0.324	0.026	-15.820	0.243	0.015	-18.316
150°	0.958	0.230	-6.391	0.980	0.240	-6.196	330°	0.302	0.023	-16.408	0.257	0.017	-17.805
155°	0.984	0.242	-6.162	0.985	0.243	-6.152	335°	0.290	0.021	-16.771	0.269	0.018	-17.440
160°	0.998	0.249	-6.041	0.988	0.244	-6.121	340°	0.285	0.020	-16.939	0.273	0.019	-17.286
165°	0.999	0.250	-6.028	0.990	0.245	-6.104	345°	0.283	0.020	-16.986	0.271	0.018	-17.359
170°	0.989	0.245	-6.115	0.991	0.245	-6.102	350°	0.283	0.020	-16.981	0.262	0.017	-17.641
175°	0.969	0.235	-6.294	0.989	0.244	-6.117	355°	0.284	0.020	-16.960	0.250	0.016	-18.076

Horizontal Polarization:

Maximum: 0.723 (-1.409 dB)

Horizontal Plane: 0.723 (-1.409 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.710 (-1.489 dB)

Horizontal Plane: 0.710 (-1.489 dB)

Maximum ERP: 0.245 kW

Total Input Power: 0.346 kW

Reference: W275BZ1M.FIG

This list shows the azimuth values for the horizontal and vertical components.

ERI[®] Vertical Plane Relative Field Pattern

Electronics Research, Inc. 7777 Gardner Rd. Chandler, IN 47610 Phone(812) 925-6000 Fax(812) 925-4030 Web: www.eriinc.com

Figure No: 3

Call Sign: W275BZ

Location: Port Orange, FL

Frequency: 102.9 MHz

Antenna: 1 bay 100A-1M-DA

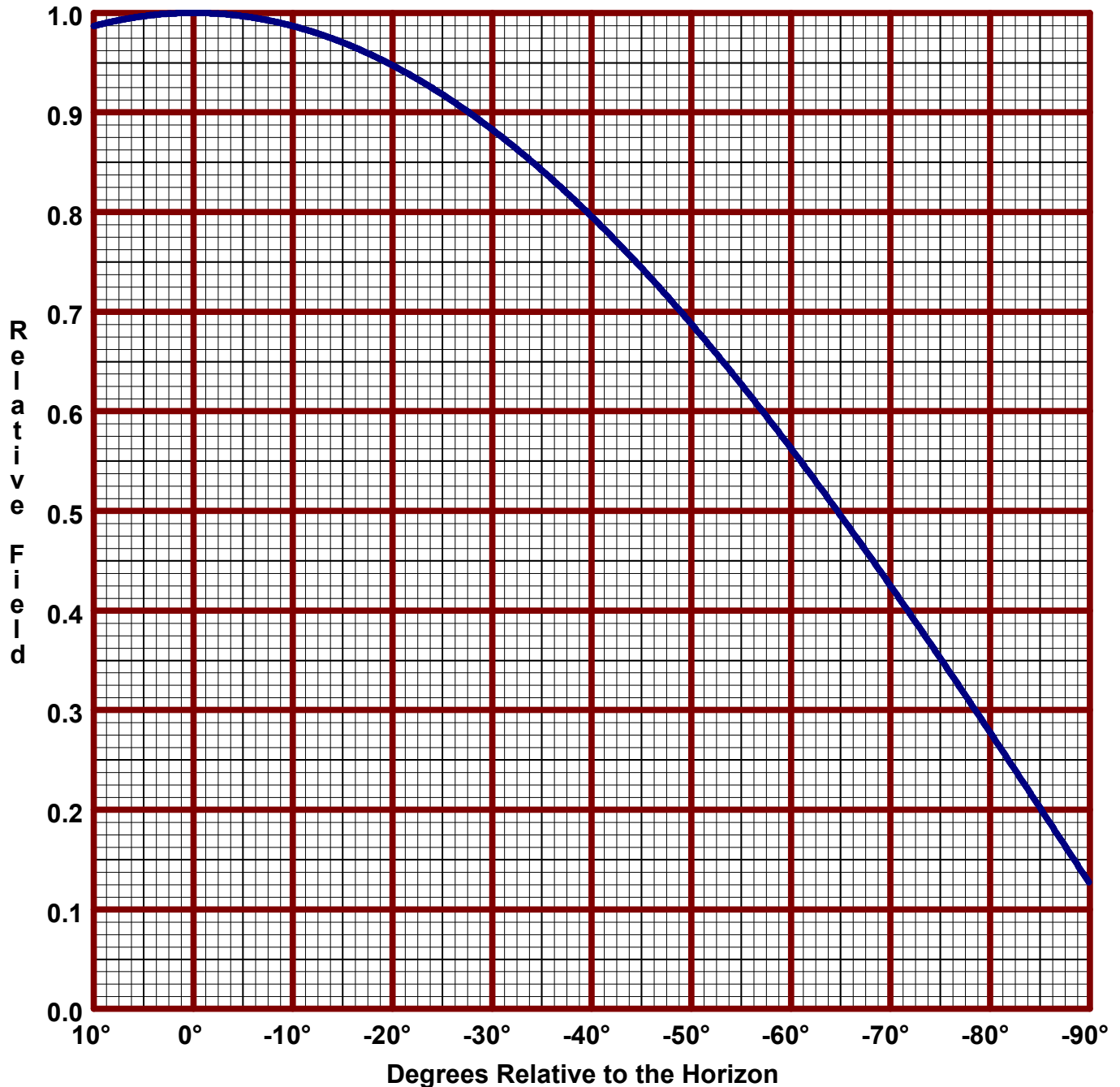
Date: 9/14/2016

H/V Power Ratio: 1

1 Wave-length Spacing

0° Beam Tilt

0% First Null Fill



Horizontal Polarization:

Maximum: 0.723 (-1.409 dB)

Horizontal Plane: 0.723 (-1.409 dB)

Maximum ERP: 0.250 kW

Vertical Polarization:

Maximum: 0.710 (-1.489 dB)

Horizontal Plane: 0.710 (-1.489 dB)

Maximum ERP: 0.245 kW