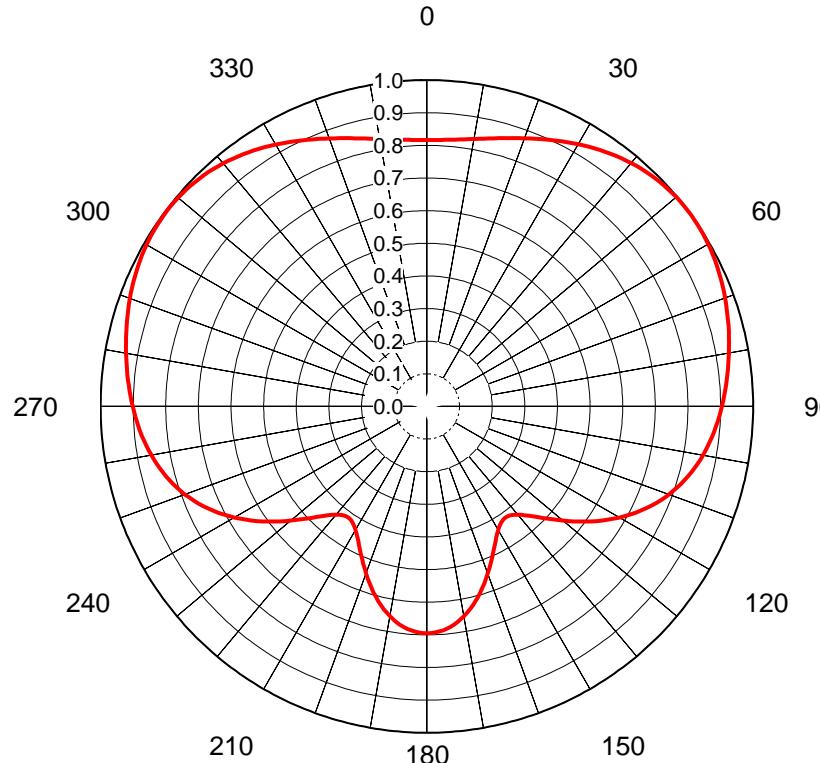


Dielectric®



AZIMUTH PATTERN Horizontal Polarization

Proposal No. C-71326
 Date 23-May-19
 Call Letters WDVM
 Channel 23
 Frequency 527 MHz
 Antenna Type TFU-16WB-R C160
 Gain 1.54 (1.88dB)
 Calculated

Deg	Value																		
0	0.817	36	0.957	72	0.966	108	0.806	144	0.418	180	0.695	216	0.417	252	0.805	288	0.962	324	0.956
1	0.817	37	0.962	73	0.963	109	0.798	145	0.417	181	0.695	217	0.419	253	0.813	289	0.965	325	0.951
2	0.817	38	0.966	74	0.960	110	0.789	146	0.419	182	0.693	218	0.422	254	0.821	290	0.968	326	0.947
3	0.818	39	0.970	75	0.957	111	0.780	147	0.421	183	0.691	219	0.427	255	0.828	291	0.971	327	0.942
4	0.819	40	0.974	76	0.954	112	0.771	148	0.425	184	0.688	220	0.433	256	0.834	292	0.974	328	0.937
5	0.821	41	0.977	77	0.950	113	0.761	149	0.431	185	0.684	221	0.440	257	0.841	293	0.977	329	0.932
6	0.822	42	0.981	78	0.947	114	0.751	150	0.437	186	0.680	222	0.448	258	0.847	294	0.980	330	0.927
7	0.824	43	0.984	79	0.943	115	0.740	151	0.445	187	0.674	223	0.458	259	0.852	295	0.982	331	0.922
8	0.827	44	0.986	80	0.940	116	0.729	152	0.454	188	0.668	224	0.468	260	0.858	296	0.984	332	0.916
9	0.829	45	0.989	81	0.937	117	0.718	153	0.464	189	0.661	225	0.480	261	0.863	297	0.986	333	0.911
10	0.832	46	0.991	82	0.933	118	0.706	154	0.474	190	0.653	226	0.491	262	0.868	298	0.988	334	0.906
11	0.836	47	0.993	83	0.930	119	0.694	155	0.485	191	0.644	227	0.504	263	0.873	299	0.990	335	0.900
12	0.839	48	0.995	84	0.926	120	0.681	156	0.496	192	0.635	228	0.517	264	0.877	300	0.992	336	0.895
13	0.843	49	0.997	85	0.923	121	0.668	157	0.508	193	0.625	229	0.530	265	0.882	301	0.993	337	0.890
14	0.847	50	0.998	86	0.919	122	0.655	158	0.520	194	0.615	230	0.544	266	0.886	302	0.994	338	0.884
15	0.851	51	0.999	87	0.915	123	0.642	159	0.533	195	0.604	231	0.558	267	0.890	303	0.995	339	0.879
16	0.855	52	0.999	88	0.912	124	0.628	160	0.545	196	0.593	232	0.572	268	0.894	304	0.996	340	0.874
17	0.860	53	1.000	89	0.908	125	0.614	161	0.557	197	0.581	233	0.586	269	0.898	305	0.997	341	0.869
18	0.864	54	1.000	90	0.904	126	0.600	162	0.570	198	0.569	234	0.600	270	0.901	306	0.997	342	0.864
19	0.869	55	1.000	91	0.900	127	0.586	163	0.582	199	0.557	235	0.614	271	0.905	307	0.997	343	0.860
20	0.874	56	0.999	92	0.896	128	0.572	164	0.593	200	0.545	236	0.628	272	0.909	308	0.997	344	0.855
21	0.879	57	0.999	93	0.892	129	0.558	165	0.604	201	0.532	237	0.642	273	0.912	309	0.996	345	0.851
22	0.885	58	0.998	94	0.888	130	0.544	166	0.615	202	0.520	238	0.655	274	0.916	310	0.995	346	0.847
23	0.890	59	0.997	95	0.884	131	0.531	167	0.626	203	0.508	239	0.668	275	0.919	311	0.994	347	0.843
24	0.895	60	0.996	96	0.879	132	0.517	168	0.635	204	0.496	240	0.681	276	0.923	312	0.993	348	0.839
25	0.901	61	0.994	97	0.875	133	0.504	169	0.644	205	0.485	241	0.693	277	0.926	313	0.991	349	0.836
26	0.906	62	0.992	98	0.870	134	0.492	170	0.653	206	0.474	242	0.706	278	0.929	314	0.989	350	0.832
27	0.912	63	0.990	99	0.865	135	0.480	171	0.661	207	0.463	243	0.717	279	0.933	315	0.987	351	0.829
28	0.917	64	0.988	100	0.859	136	0.469	172	0.668	208	0.454	244	0.729	280	0.936	316	0.984	352	0.827
29	0.922	65	0.986	101	0.854	137	0.458	173	0.674	209	0.445	245	0.740	281	0.940	317	0.982	353	0.824
30	0.928	66	0.984	102	0.848	138	0.449	174	0.680	210	0.437	246	0.750	282	0.943	318	0.979	354	0.822
31	0.933	67	0.981	103	0.842	139	0.440	175	0.684	211	0.430	247	0.761	283	0.946	319	0.975	355	0.821
32	0.938	68	0.978	104	0.835	140	0.433	176	0.688	212	0.425	248	0.770	284	0.950	320	0.972	356	0.819
33	0.943	69	0.975	105	0.828	141	0.427	177	0.691	213	0.421	249	0.780	285	0.953	321	0.968	357	0.818
34	0.948	70	0.973	106	0.821	142	0.423	178	0.693	214	0.418	250	0.789	286	0.956	322	0.964	358	0.817
35	0.953	71	0.970	107	0.814	143	0.419	179	0.695	215	0.417	251	0.797	287	0.959	323	0.960	359	0.817

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ELEVATION PATTERN

Proposal No. **C-71326**
 Date **23-May-19**
 Call Letters **WDVM**
 Channel **23**
 Frequency **527 MHz**
 Antenna Type **TFU-16WB-R C160**

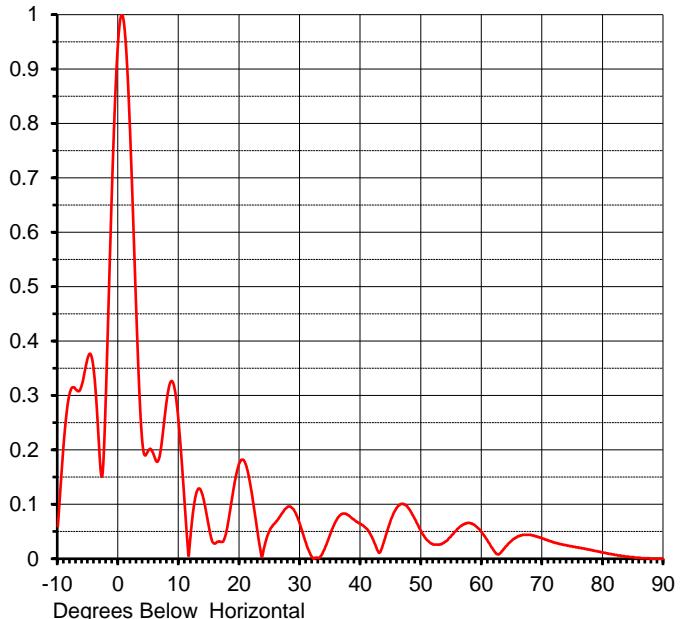
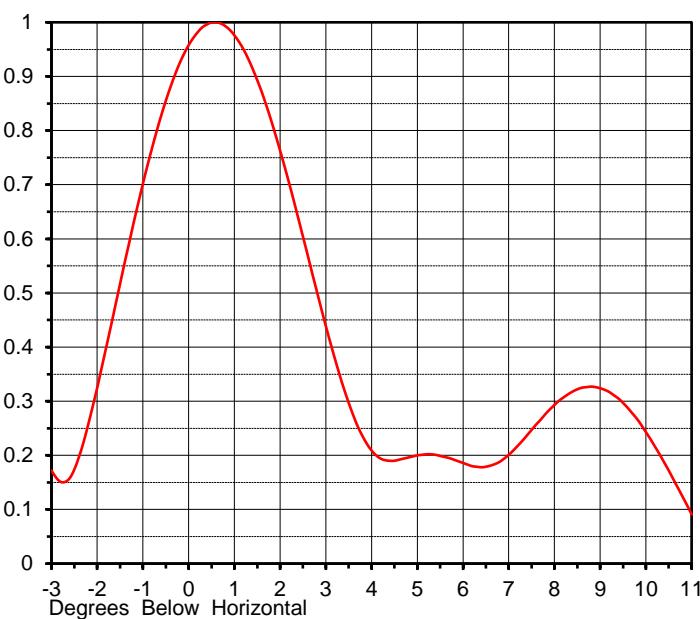
RMS Directivity at Main Lobe
 RMS Directivity at Horizontal

14.3 (11.57 dB)

13.2 (11.21 dB)

Calculated

Beam Tilt **0.55 deg**
 Pattern Number **16W143055**



Angle	Field								
-10.0	0.060	10.0	0.243	30.0	0.062	50.0	0.050	70.0	0.037
-9.0	0.216	11.0	0.091	31.0	0.028	51.0	0.034	71.0	0.033
-8.0	0.306	12.0	0.053	32.0	0.003	52.0	0.026	72.0	0.030
-7.0	0.311	13.0	0.125	33.0	0.001	53.0	0.026	73.0	0.027
-6.0	0.321	14.0	0.112	34.0	0.017	54.0	0.032	74.0	0.025
-5.0	0.371	15.0	0.055	35.0	0.046	55.0	0.043	75.0	0.022
-4.0	0.339	16.0	0.028	36.0	0.071	56.0	0.055	76.0	0.020
-3.0	0.172	17.0	0.031	37.0	0.083	57.0	0.063	77.0	0.018
-2.0	0.325	18.0	0.059	38.0	0.080	58.0	0.066	78.0	0.016
-1.0	0.702	19.0	0.128	39.0	0.071	59.0	0.060	79.0	0.014
0.0	0.958	20.0	0.176	40.0	0.064	60.0	0.048	80.0	0.011
1.0	0.976	21.0	0.174	41.0	0.055	61.0	0.032	81.0	0.009
2.0	0.763	22.0	0.122	42.0	0.036	62.0	0.015	82.0	0.007
3.0	0.439	23.0	0.047	43.0	0.011	63.0	0.010	83.0	0.005
4.0	0.209	24.0	0.018	44.0	0.037	64.0	0.023	84.0	0.004
5.0	0.200	25.0	0.053	45.0	0.072	65.0	0.034	85.0	0.003
6.0	0.186	26.0	0.068	46.0	0.094	66.0	0.041	86.0	0.002
7.0	0.201	27.0	0.083	47.0	0.101	67.0	0.044	87.0	0.001
8.0	0.293	28.0	0.096	48.0	0.091	68.0	0.044	88.0	0.000
9.0	0.324	29.0	0.089	49.0	0.072	69.0	0.041	89.0	0.000
						70.0	0.000	90.0	0.000

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