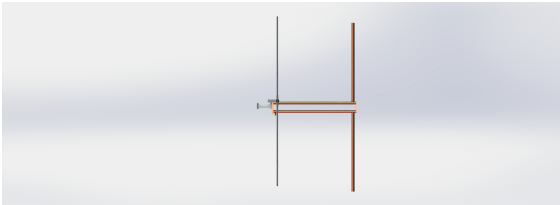


Antena FM Dipolo Vertical de Banda Larga.



Características elétricas	
Item	Valor
Ganho cadastrado (referência)	0.00 dBd
HPBW horizontal	198.70°
HPBW vertical	55.49°
Faixa de frequência	76.10 – 107.90 MHz
Polarização	Vertical
Fabricante	EFTX
Categoria	FM
Frequency range	76.1 a 107.9 MHz
Polarization	vertical
Max power	5000.0 W



Validar autenticidade · 1.3

Características mecânicas

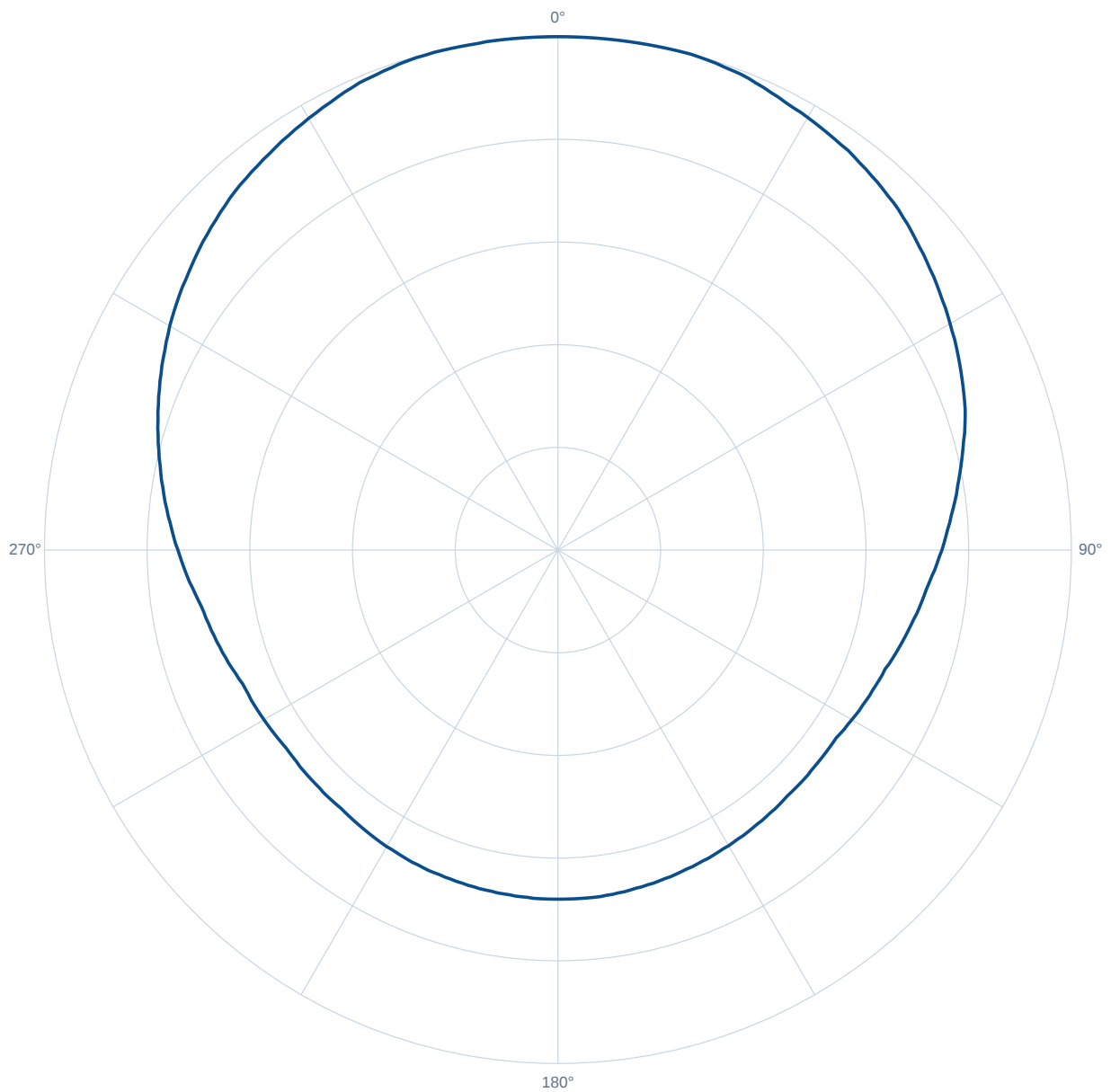
Item	Valor
Material	Estrutura em latão e cobre Fixadores em aço inox e isoladores em PTFE Estrutura de sustentação em aço galvanizado
Montagem	Fornecida com suportes compatíveis com tubos de 3,5" a 10"

Características Mecânicas

Frequency	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	AA	AB	AC	AD	AE	AF	AG	AH	AI	AJ	AK	AL	AM	AN	AO	AP	AQ	AR	AS	AT	AU	AV	AW	AX	AY	AZ	BA	BB	BC	BD	BE	BF	BG	BH	BI	BJ	BK	BL	BM	BN	BO	BP	BQ	BR	BS	BT	BU	BV	BW	BX	BY	BZ	CA	CB	CC	CD	CE	CF	CG	CH	CI	CJ	CK	CL	CM	CN	CO	CP	CQ	CR	CS	CT	CU	CV	CW	CX	CY	CZ	DA	DB	DC	DD	DE	DF	DG	DH	DI	DJ	DK	DL	DM	DN	DO	DP	DQ	DR	DS	DT	DU	DV	DW	DX	DY	DZ	EA	EB	EC	ED	EE	EF	EG	EH	EI	EJ	EK	EL	EM	EN	EO	EP	EQ	ER	ES	ET	EU	EV	EW	EX	EY	EZ	FA	FB	FC	FD	FE	FF	FG	FH	FI	FJ	FK	FL	FM	FN	FO	FP	FQ	FR	FS	FT	FU	FV	FW	FX	FY	FZ	GA	GB	GC	GD	GE	GF	GG	GH	GI	GJ	GK	GL	GM	GN	GO	GP	GQ	GR	GS	GT	GU	GV	GW	GX	GY	GZ	HA	HB	HC	HD	HE	HF	HG	HH	HI	HJ	HK	HL	HM	HN	HO	HP	HQ	HR	HS	HT	HU	HV	HW	HX	HY	HZ	IA	IB	IC	ID	IE	IF	IG	IH	II	IJ	IK	IL	IM	IN	IO	IP	IQ	IR	IS	IT	IU	IV	IW	IX	IY	IZ	JA	JB	JC	JD	JE	JF	JG	JH	JI	IJ	JK	KL	JM	JN	JO	JP	JQ	JR	JS	JT	JU	JV	JW	JX	JY	JZ	KA	KB	KC	KD	KE	KF	KG	KH	KI	KJ	KK	KL	KM	KN	KO	KP	KQ	KR	KS	KT	KU	KV	KW	KX	KY	KZ	LA	LB	LC	LD	LE	LF	LG	LH	LI	LJ	LK	LL	LM	LN	LO	LP	LQ	LR	LS	LT	LU	LV	LW	LX	LY	LZ	MA	MB	MC	MD	ME	MF	MG	MH	MI	MJ	MK	ML	MM	MN	MO	MP	MQ	MR	MS	MT	MU	MV	MW	MX	MY	MZ	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	NK	NL	NM	NN	NO	NP	NQ	NR	NS	NT	NU	NV	NW	NX	NY	NZ	OA	OB	OC	OD	OE	OF	OG	OH	OI	OJ	OK	OL	OM	ON	OO	OP	OQ	OR	OS	OT	OU	OV	OW	OX	OY	OZ	PA	PB	PC	PD	PE	PF	PG	PH	PI	PJ	PK	PL	PM	PN	PO	PP	PQ	PR	PS	PT	PU	PV	PW	PX	PY	PZ	QA	QB	QC	QD	QE	QF	QG	QH	QI	QJ	QK	QL	QM	QN	QO	QP	QQ	QR	QS	QT	QU	QV	QW	QX	QY	QZ	RA	RB	RC	RD	RE	RF	RG	RH	RI	RJ	RK	RL	RM	RN	RO	RP	RQ	RR	RS	RT	RU	RV	RW	RX	RY	RZ	SA	SB	SC	SD	SE	SF	SG	SH	SI	SJ	SK	SL	SM	SN	SO	SP	SQ	SR	SS	ST	SU	SV	SW	SX	SY	SZ	TA	TB	TC	TD	TE	TF	TG	TH	TI	TJ	TK	TL	TM	TN	TO	TP	TQ	TR	TS	TT	TU	TV	TW	TX	TY	TZ	UA	UB	UC	UD	UE	UF	UG	UH	UI	UJ	UK	UL	UM	UN	UO	UP	UQ	UR	US	UT	UU	UV	UW	UX	UY	UZ	VA	VB	VC	VD	VE	VF	VG	VH	VI	VJ	VK	VL	VM	VN	VO	VP	VQ	VR	VS	VT	VU	VV	VW	VX	VY	VZ	WA	WB	WC	WD	WE	WF	WG	WH	WI	WJ	WK	WL	WM	WN	WO	WP	WQ	WR	WS	WT	WU	WV	WW	WX	WY	WZ	XA	XB	XC	XD	XE	XF	YG	YH	YI	YJ	YK	YL	YM	YN	YO	YP	YQ	YR	YS	YT	YU	YV	YW	YX	YY	YZ	ZA	ZB	ZC	ZD	ZE	ZF	ZG	ZH	ZI	ZJ	ZK	ZL	ZM	ZN	ZO	ZP	ZQ	ZR	ZS	ZT	ZU	ZV	ZW	ZX	ZY	ZZ	AA	AB	AC</
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A Altura da antena em mm
C Centro de radiação em mm
P Peso médio da antena em Kg
AE Área de exposição (CaAc) da antena em m²





Parâmetros da configuração

HPBW HORIZONTAL

198.70°

GANHO

0.00 dBd

FRENTE/COSTAS

3.35 dB

RIPPLE

3.69 dB

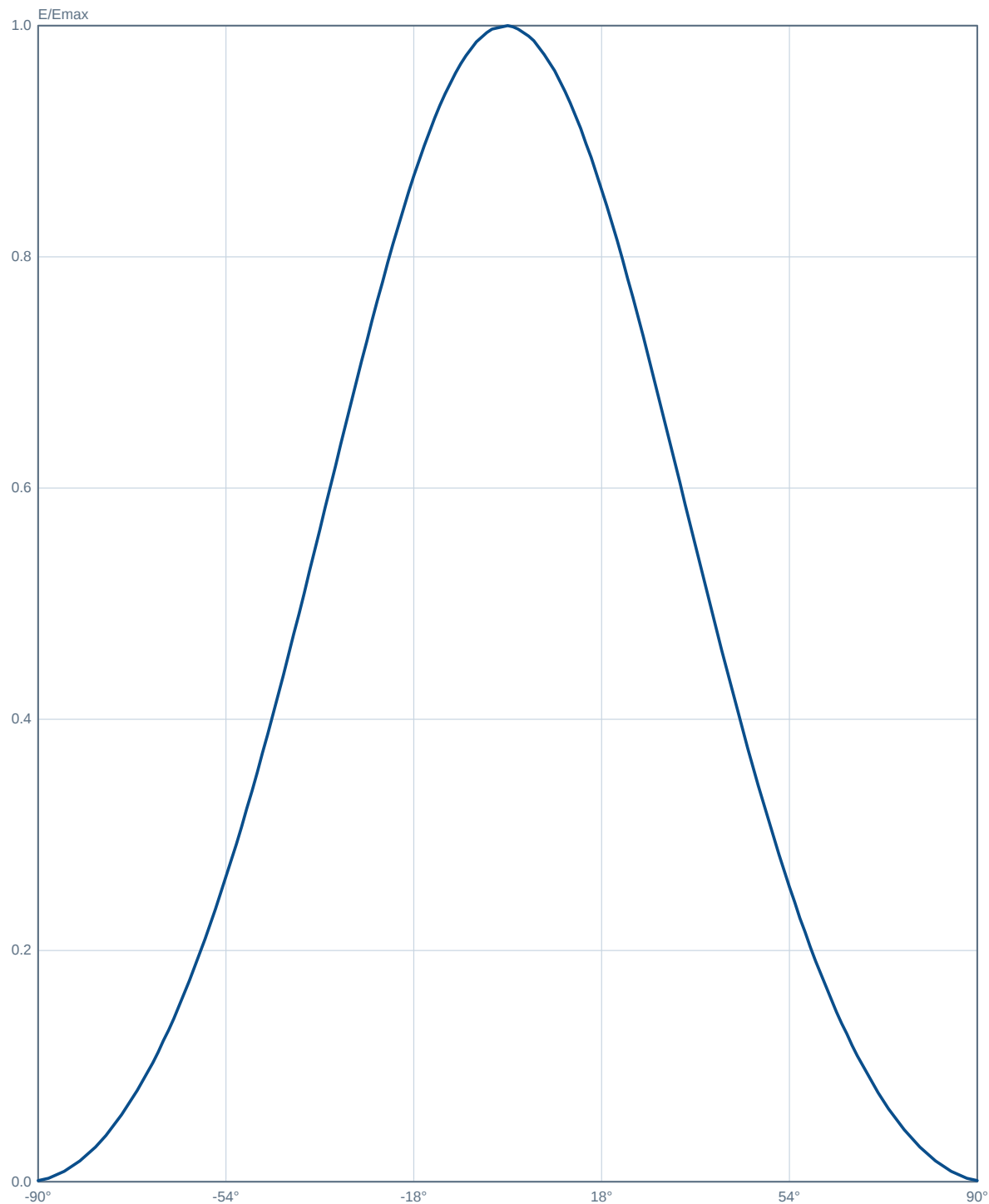
Tabela completa - Azimute



ADVB-1 · Diagrama de azimute

Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB
0°	1.0000	-0.00	73°	0.8290	1.63	146°	0.6620	3.58	219°	0.6580	3.64	292°	0.8370	1.55
1°	1.0000	-0.00	74°	0.8240	1.68	147°	0.6630	3.57	220°	0.6570	3.65	293°	0.8420	1.49
2°	1.0000	-0.00	75°	0.8180	1.74	148°	0.6630	3.57	221°	0.6570	3.65	294°	0.8460	1.45
3°	1.0000	-0.00	76°	0.8130	1.80	149°	0.6640	3.56	222°	0.6570	3.65	295°	0.8510	1.40
4°	1.0000	-0.00	77°	0.8080	1.85	150°	0.6650	3.54	223°	0.6570	3.65	296°	0.8550	1.36
5°	1.0000	-0.00	78°	0.8030	1.91	151°	0.6650	3.54	224°	0.6570	3.65	297°	0.8590	1.32
6°	1.0000	-0.00	79°	0.7980	1.96	152°	0.6660	3.53	225°	0.6560	3.66	298°	0.8640	1.27
7°	1.0000	-0.00	80°	0.7930	2.01	153°	0.6670	3.52	226°	0.6560	3.66	299°	0.8680	1.23
8°	1.0000	-0.00	81°	0.7880	2.07	154°	0.6680	3.50	227°	0.6560	3.66	300°	0.8730	1.18
9°	1.0000	-0.00	82°	0.7840	2.11	155°	0.6680	3.50	228°	0.6560	3.66	301°	0.8770	1.14
10°	1.0000	-0.00	83°	0.7790	2.17	156°	0.6690	3.49	229°	0.6560	3.66	302°	0.8810	1.10
11°	1.0000	-0.00	84°	0.7740	2.23	157°	0.6700	3.48	230°	0.6560	3.66	303°	0.8850	1.06
12°	1.0000	-0.00	85°	0.7690	2.28	158°	0.6700	3.48	231°	0.6550	3.68	304°	0.8890	1.02
13°	1.0000	-0.00	86°	0.7650	2.33	159°	0.6710	3.47	232°	0.6550	3.68	305°	0.8930	0.98
14°	1.0000	-0.00	87°	0.7600	2.38	160°	0.6720	3.45	233°	0.6550	3.68	306°	0.8960	0.95
15°	1.0000	-0.00	88°	0.7560	2.43	161°	0.6730	3.44	234°	0.6550	3.68	307°	0.9000	0.92
16°	0.9990	0.01	89°	0.7520	2.48	162°	0.6730	3.44	235°	0.6560	3.66	308°	0.9040	0.88
17°	0.9980	0.02	90°	0.7480	2.52	163°	0.6740	3.43	236°	0.6570	3.65	309°	0.9080	0.84
18°	0.9970	0.03	91°	0.7430	2.58	164°	0.6750	3.41	237°	0.6580	3.64	310°	0.9120	0.80
19°	0.9950	0.04	92°	0.7390	2.63	165°	0.6750	3.41	238°	0.6590	3.62	311°	0.9160	0.76
20°	0.9940	0.05	93°	0.7350	2.67	166°	0.6760	3.40	239°	0.6600	3.61	312°	0.9190	0.73
21°	0.9930	0.06	94°	0.7300	2.73	167°	0.6760	3.40	240°	0.6610	3.60	313°	0.9230	0.70
22°	0.9910	0.08	95°	0.7260	2.78	168°	0.6770	3.39	241°	0.6620	3.58	314°	0.9260	0.67
23°	0.9880	0.10	96°	0.7220	2.83	169°	0.6780	3.38	242°	0.6630	3.57	315°	0.9300	0.63
24°	0.9860	0.12	97°	0.7190	2.87	170°	0.6780	3.38	243°	0.6640	3.56	316°	0.9330	0.60
25°	0.9830	0.15	98°	0.7160	2.90	171°	0.6790	3.36	244°	0.6650	3.54	317°	0.9370	0.57
26°	0.9810	0.17	99°	0.7130	2.94	172°	0.6790	3.36	245°	0.6650	3.54	318°	0.9400	0.54
27°	0.9780	0.19	100°	0.7100	2.97	173°	0.6800	3.35	246°	0.6660	3.53	319°	0.9430	0.51
28°	0.9760	0.21	101°	0.7060	3.02	174°	0.6800	3.35	247°	0.6670	3.52	320°	0.9450	0.49
29°	0.9750	0.22	102°	0.7030	3.06	175°	0.6800	3.35	248°	0.6700	3.48	321°	0.9480	0.46
30°	0.9730	0.24	103°	0.7000	3.10	176°	0.6800	3.35	249°	0.6720	3.45	322°	0.9500	0.45
31°	0.9710	0.26	104°	0.6970	3.14	177°	0.6800	3.35	250°	0.6750	3.41	323°	0.9530	0.42
32°	0.9690	0.27	105°	0.6940	3.17	178°	0.6800	3.35	251°	0.6780	3.38	324°	0.9550	0.40
33°	0.9670	0.29	106°	0.6910	3.21	179°	0.6800	3.35	252°	0.6800	3.35	325°	0.9580	0.37
34°	0.9650	0.31	107°	0.6880	3.25	180°	0.6800	3.35	253°	0.6830	3.31	326°	0.9610	0.35
35°	0.9630	0.33	108°	0.6850	3.29	181°	0.6800	3.35	254°	0.6850	3.29	327°	0.9630	0.33
36°	0.9620	0.34	109°	0.6820	3.32	182°	0.6800	3.35	255°	0.6880	3.25	328°	0.9660	0.30
37°	0.9590	0.36	110°	0.6780	3.38	183°	0.6800	3.35	256°	0.6900	3.22	329°	0.9680	0.28
38°	0.9560	0.39	111°	0.6770	3.39	184°	0.6800	3.35	257°	0.6930	3.19	330°	0.9710	0.26
39°	0.9540	0.41	112°	0.6750	3.41	185°	0.6790	3.36	258°	0.6950	3.16	331°	0.9730	0.24
40°	0.9510	0.44	113°	0.6730	3.44	186°	0.6790	3.36	259°	0.6980	3.12	332°	0.9760	0.21
41°	0.9490	0.45	114°	0.6710	3.47	187°	0.6790	3.36	260°	0.7000	3.10	333°	0.9780	0.19
42°	0.9460	0.48	115°	0.6700	3.48	188°	0.6780	3.38	261°	0.7030	3.06	334°	0.9810	0.17
43°	0.9430	0.51	116°	0.6680	3.50	189°	0.6780	3.38	262°	0.7070	3.01	335°	0.9840	0.14
44°	0.9410	0.53	117°	0.6660	3.53	190°	0.6780	3.38	263°	0.7110	2.96	336°	0.9860	0.12
45°	0.9380	0.56	118°	0.6650	3.54	191°	0.6770	3.39	264°	0.7150	2.91	337°	0.9890	0.10
46°	0.9340	0.59	119°	0.6630	3.57	192°	0.6770	3.39	265°	0.7200	2.85	338°	0.9900	0.09
47°	0.9310	0.62	120°	0.6610	3.60	193°	0.6770	3.39	266°	0.7240	2.81	339°	0.9910	0.08
48°	0.9270	0.66	121°	0.6590	3.62	194°	0.6760	3.40	267°	0.7280	2.76	340°	0.9930	0.06
49°	0.9230	0.70	122°	0.6580	3.64	195°	0.6760	3.40	268°	0.7320	2.71	341°	0.9940	0.05
50°	0.9190	0.73	123°	0.6560	3.66	196°	0.6750	3.41	269°	0.7360	2.66	342°	0.9960	0.03
51°	0.9160	0.76	124°	0.6540	3.69	197°	0.6750	3.41	270°	0.7400	2.62	343°	0.9970	0.03
52°	0.9120	0.80	125°	0.6540	3.69	198°	0.6740	3.43	271°	0.7450	2.56	344°	0.9980	0.02
53°	0.9080	0.84	126°	0.6540	3.69	199°	0.6740	3.43	272°	0.7490	2.51	345°	0.9980	0.02
54°	0.9050	0.87	127°	0.6540	3.69	200°	0.6730	3.44	273°	0.7530	2.46	346°	0.9990	0.01
55°	0.9010	0.91	128°	0.6540	3.69	201°	0.6730	3.44	274°	0.7570	2.42	347°	0.9990	0.01
56°	0.8970	0.94	129°	0.6540	3.69	202°	0.6730	3.44	275°	0.7620	2.36	348°	0.9990	0.01
57°	0.8930	0.98	130°	0.6540	3.69	203°	0.6720	3.45	276°	0.7660	2.32	349°	0.9990	0.01
58°	0.8900	1.01	131°	0.6540	3.69	204°	0.6710	3.47	277°	0.7710	2.26	350°	0.9990	0.01
59°	0.8860	1.05	132°	0.6550	3.68	205°	0.6710	3.47	278°	0.7750	2.21	351°	0.9990	0.01
60°	0.8820	1.09	133°	0.6550	3.68	206°	0.6700	3.48	279°	0.7790	2.17	352°	1.0000	-0.00
61°	0.8780	1.13	134°	0.6550	3.68	207°	0.6690	3.49	280°	0.7840	2.11	353°	1.0000	-0.00
62°	0.8750	1.16	135°	0.6550	3.68	208°	0.6680	3.50	281°	0.7880	2.07	354°	1.0000	-0.00
63°	0.8710	1.20	136°	0.6550	3.68	209°	0.6670	3.52	282°	0.7920	2.03	355°	1.0000	-0.00
64°	0.8670	1.24	137°	0.6550	3.68	210°	0.6670	3.52	283°	0.7970	1.97	356°	1.0000	-0.00
65°	0.8630	1.28	138°	0.6560	3.66	211°	0.6660	3.53	284°	0.8010	1.93	357°	1.0000	-0.00
66°	0.8590	1.32	139°	0.6570	3.65	212°	0.6650	3.54	285°	0.8060	1.87	358°	1.0000	-0.00
67°	0.8550	1.36	140°	0.6580	3.64	213°	0.6640	3.56	286°	0.8100	1.83	359°	1.0000	-0.00
68°	0.8510	1.40	141°	0.6580	3.64	214°	0.6630	3.57	287°	0.8150	1.78	360°	1.0000	-0.00
69°	0.8470	1.44	142°	0.6590	3.62	215°	0.6620	3.58	288°	0.8190	1.73			
70°	0.8430	1.48	143°	0.6600	3.61	216°	0.6610	3.60	289°	0.8240	1.68			
71°	0.8390	1.52	144°	0.6600	3.61	217°	0.6600	3.61	290°	0.8280	1.64			
72°	0.8340	1.58	145°	0.6610	3.60	218°	0.6590	3.62	291°	0.8330	1.59			

E/E_{max} de campo normalizado · atenuação positiva em dB



Parâmetros da configuração

ELEMENTOS

N/D

HPBW VERTICAL

55.49°

GANHO

0.00 dBd

PRIMEIRO NULO

75.20°

Tabela completa - Elevação



ADVB-1 · Diagrama de elevação

Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB	Ângulo	E/E _{max}	Aten. dB
-90°	0.0010	60.00	-53.5°	0.2710	11.34	-17°	0.8830	1.08	19.5°	0.8365	1.55	56°	0.2280	12.84
-89.5°	0.0015	56.48	-53°	0.2780	11.12	-16.5°	0.8895	1.02	20°	0.8290	1.63	56.5°	0.2220	13.07
-89°	0.0020	53.98	-52.5°	0.2850	10.90	-16°	0.8960	0.95	20.5°	0.8215	1.71	57°	0.2160	13.31
-88.5°	0.0025	52.04	-52°	0.2920	10.69	-15.5°	0.9020	0.90	21°	0.8140	1.79	57.5°	0.2095	13.58
-88°	0.0030	50.46	-51.5°	0.2995	10.47	-15°	0.9080	0.84	21.5°	0.8060	1.87	58°	0.2030	13.85
-87.5°	0.0040	47.96	-51°	0.3070	10.26	-14.5°	0.9140	0.78	22°	0.7980	1.96	58.5°	0.1970	14.11
-87°	0.0050	46.02	-50.5°	0.3150	10.03	-14°	0.9200	0.72	22.5°	0.7895	2.05	59°	0.1910	14.38
-86.5°	0.0060	44.44	-50°	0.3230	9.82	-13.5°	0.9255	0.67	23°	0.7810	2.15	59.5°	0.1855	14.63
-86°	0.0070	43.10	-49.5°	0.3305	9.62	-13°	0.9310	0.62	23.5°	0.7730	2.24	60°	0.1800	14.89
-85.5°	0.0080	41.94	-49°	0.3380	9.42	-12.5°	0.9360	0.57	24°	0.7650	2.33	60.5°	0.1745	15.16
-85°	0.0090	40.92	-48.5°	0.3460	9.22	-12°	0.9410	0.53	24.5°	0.7565	2.42	61°	0.1690	15.44
-84.5°	0.0105	39.58	-48°	0.3540	9.02	-11.5°	0.9455	0.49	25°	0.7480	2.52	61.5°	0.1635	15.73
-84°	0.0120	38.42	-47.5°	0.3625	8.81	-11°	0.9500	0.45	25.5°	0.7395	2.62	62°	0.1580	16.03
-83.5°	0.0135	37.39	-47°	0.3710	8.61	-10.5°	0.9545	0.40	26°	0.7310	2.72	62.5°	0.1525	16.33
-83°	0.0150	36.48	-46.5°	0.3790	8.43	-10°	0.9590	0.36	26.5°	0.7220	2.83	63°	0.1470	16.65
-82.5°	0.0165	35.65	-46°	0.3870	8.25	-9.5°	0.9630	0.33	27°	0.7130	2.94	63.5°	0.1420	16.95
-82°	0.0180	34.89	-45.5°	0.3955	8.06	-9°	0.9670	0.29	27.5°	0.7040	3.05	64°	0.1370	17.27
-81.5°	0.0200	33.98	-45°	0.4040	7.87	-8.5°	0.9705	0.26	28°	0.6950	3.16	64.5°	0.1325	17.56
-81°	0.0220	33.15	-44.5°	0.4125	7.69	-8°	0.9740	0.23	28.5°	0.6860	3.27	65°	0.1280	17.86
-80.5°	0.0240	32.40	-44°	0.4210	7.51	-7.5°	0.9770	0.20	29°	0.6770	3.39	65.5°	0.1230	18.20
-80°	0.0260	31.70	-43.5°	0.4295	7.34	-7°	0.9800	0.18	29.5°	0.6680	3.50	66°	0.1180	18.56
-79.5°	0.0280	31.06	-43°	0.4380	7.17	-6.5°	0.9830	0.15	30°	0.6590	3.62	66.5°	0.1135	18.90
-79°	0.0300	30.46	-42.5°	0.4470	6.99	-6°	0.9860	0.12	30.5°	0.6500	3.74	67°	0.1090	19.25
-78.5°	0.0325	29.76	-42°	0.4560	6.82	-5.5°	0.9880	0.10	31°	0.6410	3.86	67.5°	0.1050	19.58
-78°	0.0350	29.12	-41.5°	0.4650	6.65	-5°	0.9900	0.09	31.5°	0.6320	3.99	68°	0.1010	19.91
-77.5°	0.0375	28.52	-41°	0.4740	6.48	-4.5°	0.9920	0.07	32°	0.6230	4.11	68.5°	0.0970	20.26
-77°	0.0400	27.96	-40.5°	0.4825	6.33	-4°	0.9940	0.05	32.5°	0.6140	4.24	69°	0.0930	20.63
-76.5°	0.0430	27.33	-40°	0.4910	6.18	-3.5°	0.9955	0.04	33°	0.6050	4.36	69.5°	0.0890	21.01
-76°	0.0460	26.74	-39.5°	0.5000	6.02	-3°	0.9970	0.03	33.5°	0.5955	4.50	70°	0.0850	21.41
-75.5°	0.0490	26.20	-39°	0.5090	5.87	-2.5°	0.9975	0.02	34°	0.5860	4.64	70.5°	0.0810	21.83
-75°	0.0520	25.68	-38.5°	0.5185	5.70	-2°	0.9980	0.02	34.5°	0.5770	4.78	71°	0.0770	22.27
-74.5°	0.0550	25.19	-38°	0.5280	5.55	-1.5°	0.9985	0.01	35°	0.5680	4.91	71.5°	0.0735	22.67
-74°	0.0580	24.73	-37.5°	0.5370	5.40	-1°	0.9990	0.01	35.5°	0.5590	5.05	72°	0.0700	23.10
-73.5°	0.0615	24.22	-37°	0.5460	5.26	-0.5°	0.9995	0.00	36°	0.5500	5.19	72.5°	0.0665	23.54
-73°	0.0650	23.74	-36.5°	0.5550	5.11	0°	1.0000	-0.00	36.5°	0.5410	5.34	73°	0.0630	24.01
-72.5°	0.0685	23.29	-36°	0.5640	4.97	0.5°	0.9995	0.00	37°	0.5320	5.48	73.5°	0.0600	24.44
-72°	0.0720	22.85	-35.5°	0.5735	4.83	1°	0.9990	0.01	37.5°	0.5230	5.63	74°	0.0570	24.88
-71.5°	0.0755	22.44	-35°	0.5830	4.69	1.5°	0.9980	0.02	38°	0.5140	5.78	74.5°	0.0540	25.35
-71°	0.0790	22.05	-34.5°	0.5920	4.55	2°	0.9970	0.03	38.5°	0.5050	5.93	75°	0.0510	25.85
-70.5°	0.0830	21.62	-34°	0.6010	4.42	2.5°	0.9955	0.04	39°	0.4960	6.09	75.5°	0.0480	26.38
-70°	0.0870	21.21	-33.5°	0.6100	4.29	3°	0.9940	0.05	39.5°	0.4870	6.25	76°	0.0450	26.94
-69.5°	0.0910	20.82	-33°	0.6190	4.17	3.5°	0.9925	0.07	40°	0.4780	6.41	76.5°	0.0425	27.43
-69°	0.0950	20.45	-32.5°	0.6285	4.03	4°	0.9910	0.08	40.5°	0.4690	6.58	77°	0.0400	27.96
-68.5°	0.0990	20.09	-32°	0.6380	3.90	4.5°	0.9890	0.10	41°	0.4600	6.74	77.5°	0.0375	28.52
-68°	0.1030	19.74	-31.5°	0.6470	3.78	5°	0.9870	0.11	41.5°	0.4515	6.91	78°	0.0350	29.12
-67.5°	0.1075	19.37	-31°	0.6560	3.66	5.5°	0.9840	0.14	42°	0.4430	7.07	78.5°	0.0325	29.76
-67°	0.1120	19.02	-30.5°	0.6650	3.54	6°	0.9810	0.17	42.5°	0.4345	7.24	79°	0.0300	30.46
-66.5°	0.1170	18.64	-30°	0.6740	3.43	6.5°	0.9780	0.19	43°	0.4260	7.41	79.5°	0.0280	31.06
-66°	0.1220	18.27	-29.5°	0.6830	3.31	7°	0.9750	0.22	43.5°	0.4175	7.59	80°	0.0260	31.70
-65.5°	0.1265	17.96	-29°	0.6920	3.20	7.5°	0.9715	0.25	44°	0.4090	7.77	80.5°	0.0240	32.40
-65°	0.1310	17.65	-28.5°	0.7010	3.09	8°	0.9680	0.28	44.5°	0.4005	7.95	81°	0.0220	33.15
-64.5°	0.1360	17.33	-28°	0.7100	2.97	8.5°	0.9645	0.31	45°	0.3920	8.13	81.5°	0.0200	33.98
-64°	0.1410	17.02	-27.5°	0.7185	2.87	9°	0.9610	0.35	45.5°	0.3835	8.32	82°	0.0180	34.89
-63.5°	0.1465	16.68	-27°	0.7270	2.77	9.5°	0.9565	0.39	46°	0.3750	8.52	82.5°	0.0165	35.65
-63°	0.1520	16.36	-26.5°	0.7360	2.66	10°	0.9520	0.43	46.5°	0.3670	8.71	83°	0.0150	36.48
-62.5°	0.1575	16.05	-26°	0.7450	2.56	10.5°	0.9475	0.47	47°	0.3590	8.90	83.5°	0.0135	37.39
-62°	0.1630	15.76	-25.5°	0.7535	2.46	11°	0.9430	0.51	47.5°	0.3510	9.09	84°	0.0120	38.42
-61.5°	0.1685	15.47	-25°	0.7620	2.36	11.5°	0.9380	0.56	48°	0.3430	9.29	84.5°	0.0105	39.58
-61°	0.1740	15.19	-24.5°	0.7700	2.27	12°	0.9330	0.60	48.5°	0.3355	9.49	85°	0.0090	40.92
-60.5°	0.1800	14.89	-24°	0.7780	2.18	12.5°	0.9275	0.65	49°	0.3280	9.68	85.5°	0.0080	41.94
-60°	0.1860	14.61	-23.5°	0.7865	2.09	13°	0.9220	0.71	49.5°	0.3205	9.88	86°	0.0070	43.10
-59.5°	0.1920	14.33	-23°	0.7950	1.99	13.5°	0.9165	0.76	50°	0.3130	10.09	86.5°	0.0060	44.44
-59°	0.1980	14.07	-22.5°	0.8030	1.91	14°	0.9110	0.81	50.5°	0.3055	10.30	87°	0.0050	46.02
-58.5°	0.2040	13.81	-22°	0.8110	1.82	14.5°	0.9045	0.87	51°	0.2980	10.52	87.5°	0.0040	47.96
-58°	0.2100	13.56	-21.5°	0.8185	1.74	15°	0.8980	0.93	51.5°	0.2905	10.74	88°	0.0030	50.46
-57.5°	0.2165	13.29	-21°	0.8260	1.66	15.5°	0.8920	0.99	52°	0.2830	10.96	88.5°	0.0025	52.04
-57°	0.2230	13.03	-20.5°	0.8335	1.58	16°	0.8860	1.05	52.5°	0.2760	11.18	89°	0.0020	53.98
-56.5°	0.2295	12.78	-20°	0.8410	1.50	16.5°	0.8790	1.12	53°	0.2690	11.40	89.5°	0.0015	56.48
-56°	0.2360	12.54	-19.5°	0.8485	1.43	17°	0.8720	1.19	53.5°	0.2620	11.63	90°	0.0010	60.00
-55.5°	0.2430	12.29	-19°	0.8560	1.35	17.5°	0.8650	1.26	54°	0.2550	11.87			
-55°	0.2500	12.04	-18.5°	0.8630	1.28	18°	0.8580	1.33	54.5°	0.2485	12.09			
-54.5°	0.2570	11.80	-18°	0.8700	1.21	18.5°	0.8510	1.40	55°	0.2420	12.32			
-54°	0.2640	11.57	-17.5°	0.8765	1.14	19°	0.8440	1.47	55.5°	0.2350	12.58			

E/E_{max} de campo normalizado · atenuação positiva em dB