

FM Collinear Antenna model



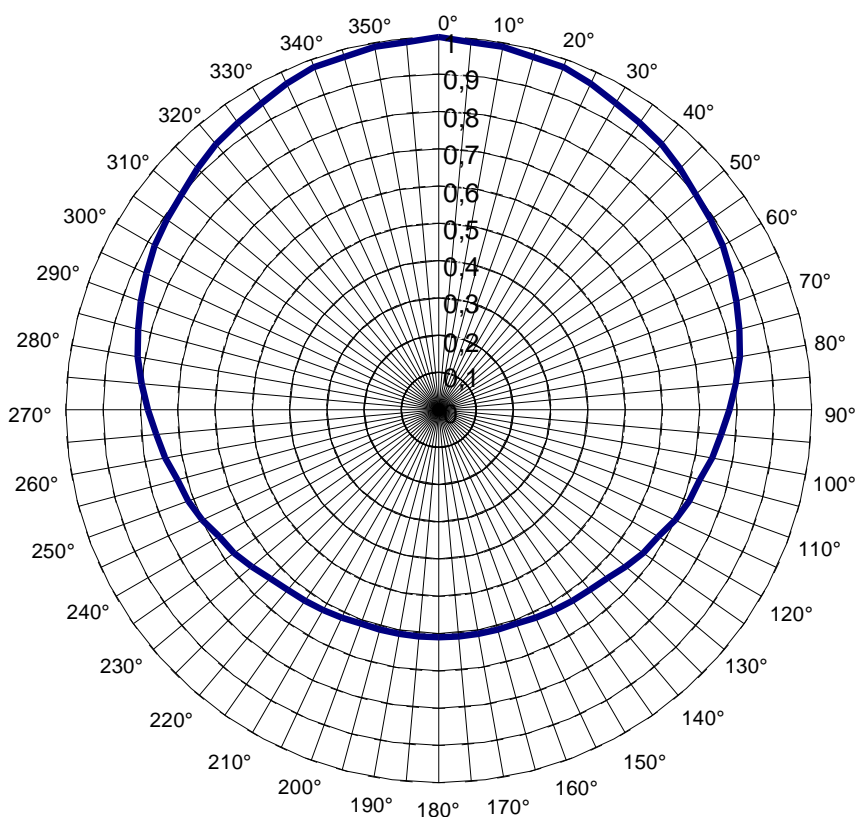
Technical Characteristics

Frequency range	87,9 - 108 MHz
Polarization	Vertical
Conector	7/8"
VSWR	1,2:1 (\pm 200 KHz)
Gain per bay	1 dBd
Impedance	50 ohms

Especifications

Nº of bays	Gain (dBi)	Max. Power (Watts)
1	3,15	250
2	6,15	500
3	7,65	750
4	9,15	1000
6	10,65	1000

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Horizontal pattern for the vertical polarization - Half power angle: 220°



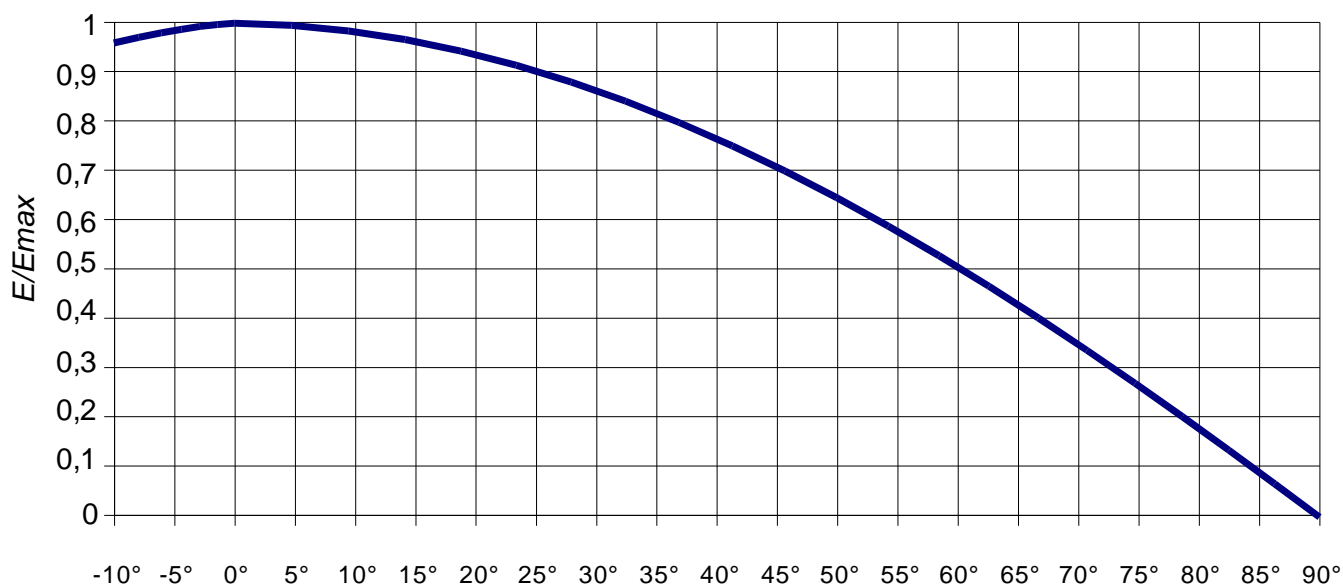
Graus	E/E _{max}	(dB)	(%)
0°	1	0	100,00%
5°	0,99	-0,09	97,95%
10°	0,99	-0,1	97,72%
15°	0,98	-0,18	95,94%
20°	0,98	-0,19	95,72%
25°	0,96	-0,31	93,11%
30°	0,95	-0,45	90,16%
35°	0,94	-0,54	88,31%
40°	0,93	-0,63	86,50%
45°	0,92	-0,77	83,75%
50°	0,9	-0,92	80,91%
55°	0,89	-1,01	79,25%
60°	0,88	-1,11	77,45%
65°	0,86	-1,26	74,82%
70°	0,85	-1,41	72,28%
75°	0,83	-1,57	69,66%
80°	0,82	-1,72	67,30%
85°	0,8	-1,94	63,97%

Graus	E/E _{max}	(dB)	(%)
90°	0,78	-2,16	60,81%
95°	0,76	-2,38	57,81%
100°	0,74	-2,56	55,46%
105°	0,73	-2,79	52,60%
110°	0,72	-2,91	51,17%
115°	0,7	-3,1	48,98%
120°	0,68	-3,35	46,24%
125°	0,67	-3,48	44,87%
130°	0,65	-3,68	42,85%
135°	0,64	-3,88	40,93%
140°	0,63	-4,01	39,72%
145°	0,63	-4,08	39,08%
150°	0,62	-4,15	38,46%
155°	0,62	-4,22	37,84%
160°	0,61	-4,29	37,24%
165°	0,61	-4,29	37,24%
170°	0,61	-4,29	37,24%
175°	0,61	-4,29	37,24%

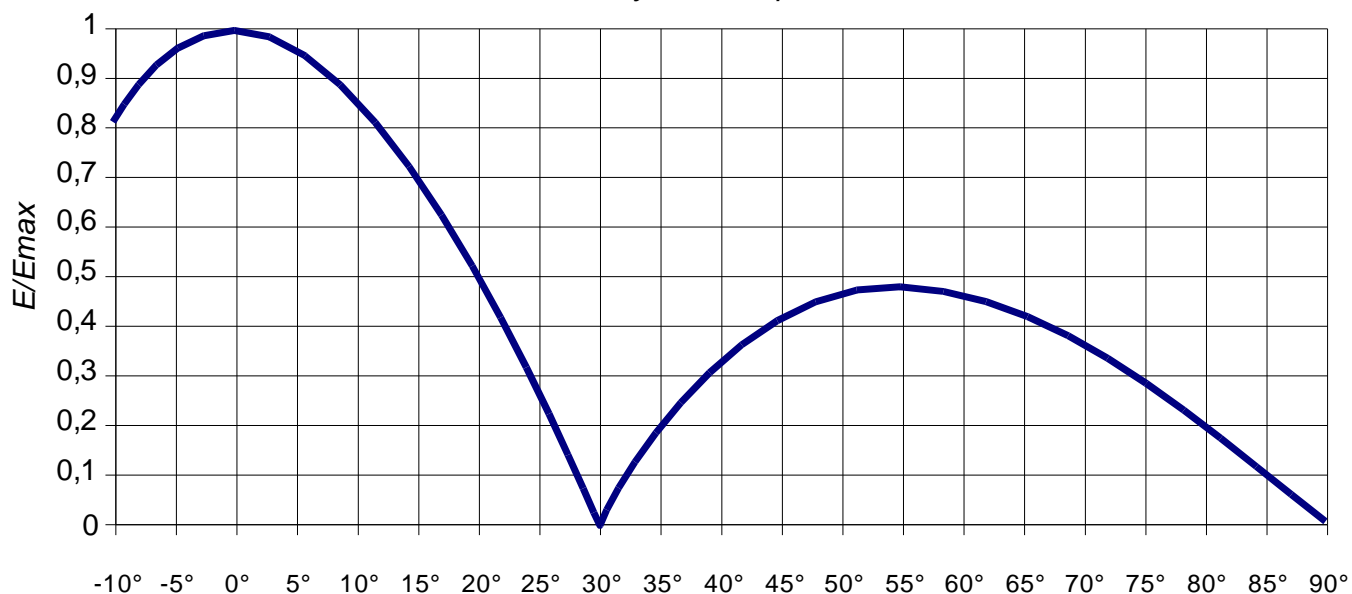
Graus	E/E _{max}	(dB)	(%)
180°	0,61	-4,29	37,24%
185°	0,61	-4,29	37,24%
190°	0,61	-4,29	37,24%
195°	0,61	-4,29	37,24%
200°	0,61	-4,29	37,24%
205°	0,62	-4,22	37,84%
210°	0,62	-4,15	38,46%
215°	0,63	-4,08	39,08%
220°	0,63	-4,01	39,72%
225°	0,64	-3,88	40,93%
230°	0,65	-3,68	42,85%
235°	0,67	-3,48	44,87%
240°	0,68	-3,35	46,24%
245°	0,7	-3,1	48,98%
250°	0,72	-2,91	51,17%
255°	0,73	-2,79	52,60%
260°	0,74	-2,56	55,46%
265°	0,76	-2,38	57,81%

Graus	E/E _{max}	(dB)	(%)
270°	0,78	-2,16	60,81%
275°	0,8	-1,94	63,97%
280°	0,82	-1,72	67,30%
285°	0,83	-1,57	69,66%
290°	0,85	-1,41	72,28%
295°	0,86	-1,26	74,82%
300°	0,88	-1,11	77,45%
305°	0,89	-1,01	79,25%
310°	0,9	-0,92	80,91%
315°	0,92	-0,77	83,75%
320°	0,93	-0,63	86,50%
325°	0,94	-0,54	88,31%
330°	0,95	-0,45	90,16%
335°	0,96	-0,31	93,11%
340°	0,98	-0,19	95,72%
345°	0,98	-0,18	95,94%
350°	0,99	-0,1	97,72%
355°	0,99	-0,09	97,95%

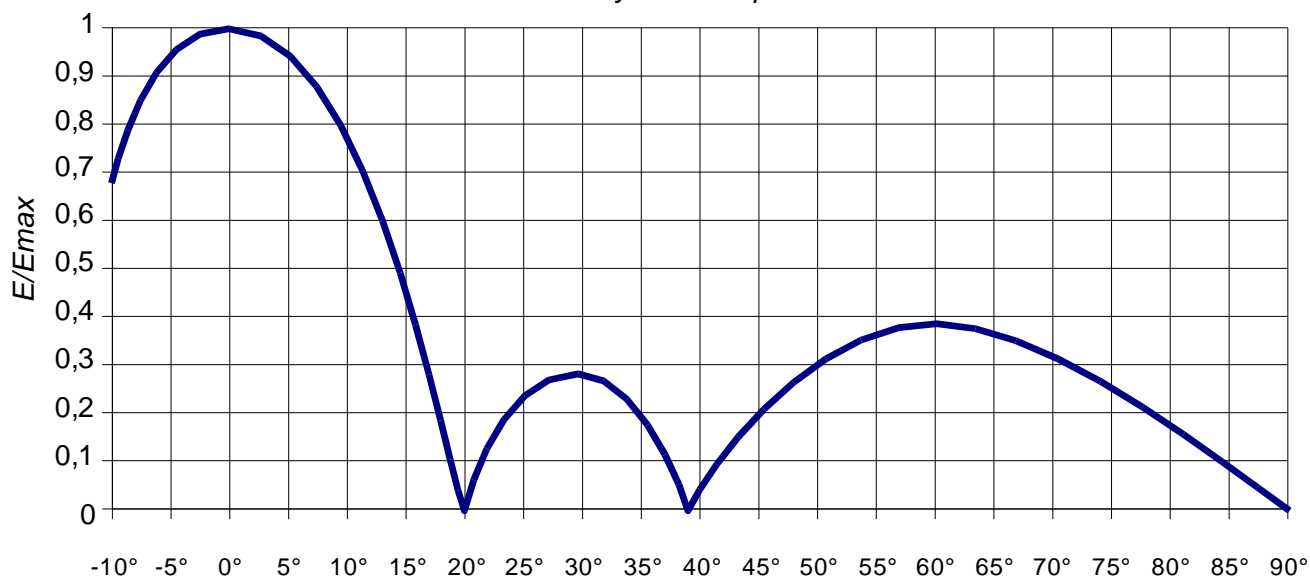
*FM Collinear Antenna model for FM transmission
1 bay vertical pattern*



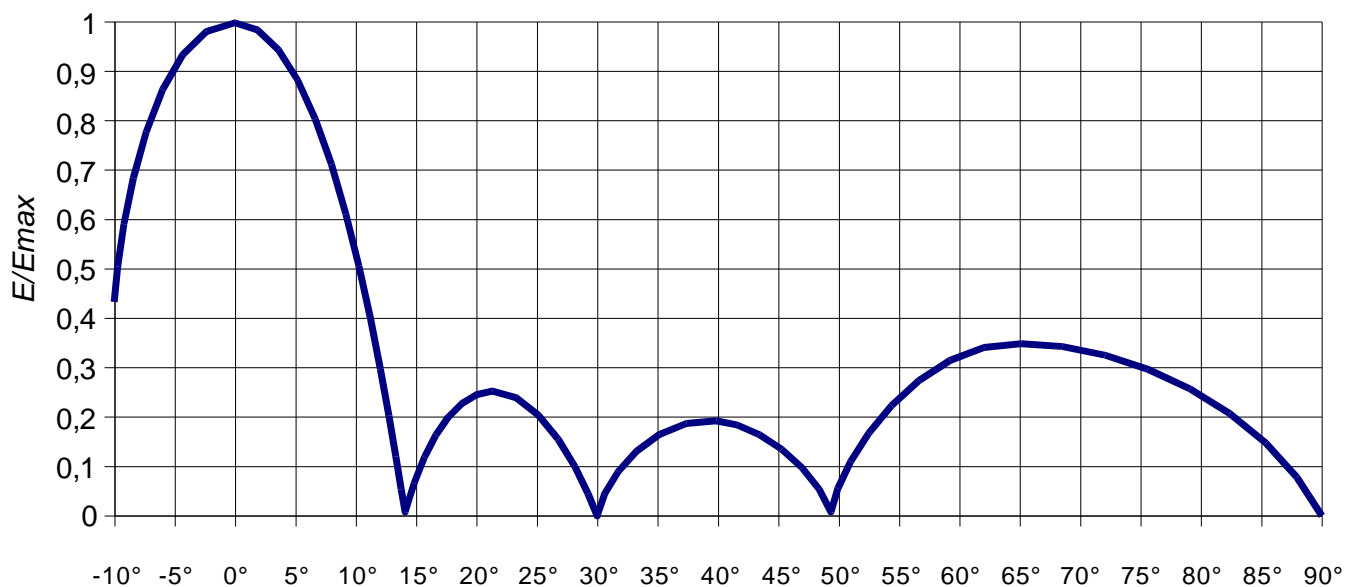
*FM Collinear Antenna model for FM transmission
2 bays vertical pattern*



*FM Collinear Antenna model for FM transmission
3 bays vertical pattern*



*FM Collinear Antenna model for FM transmission
4 bays vertical pattern*



*FM Collinear Antenna model for FM transmission
6 bays vertical pattern*

