

CUT CHARTS - VHF ANTENNAS

MODEL 1153		
MOBILE VHF ANTENNA		
(CUT WHIP FROM BOTTOM)		
Operating Freq. MHz	Whip Length	
	Inches	CM
136	53 1/8	134.94
138	51 3/4	131.45
140	50 9/16	128.43
142	49 5/8	126.05
144	48 7/16	123.03
146	47 9/16	120.81
148	46 9/16	118.27
150	46 5/8	118.43
152	45 15/16	116.68
154	44 3/4	113.67
156	43 7/8	111.44
158	43	109.22
160	42 3/16	107.16
162	41 7/16	105.25
164	40 5/8	103.19
166	39 15/16	101.44
168	39 3/8	100.01
170	38 3/4	98.43
172	38 1/16	96.68
174	37 9/16	95.41

MODEL 1159		
WIDE BAND VHF ANTENNA		
2.5 dBd Gain (if used on a GP)		
End fed 1/2 Wave (NGP)		
(CUT WHIP FROM BOTTOM)		
Operating Freq. MHz	Whip Length	
	Inches	CM
132-150	43 1/4	109.86
138-160	41	104.14
142-170	39	99.06
148-174	36 1/4	92.01

MODEL 1151		
5/8 WAVE 3.2 DB GAIN		
(CUT WHIP FROM BOTTOM)		
Operating Freq. MHz	Whip Length	
	Inches	CM
134	52 3/4	134.00
136	51 3/4	141.60
138	51	129.50
140	49 3/4	126.40
142	49 1/8	124.50
144	48 1/4	122.60
146	47 1/4	119.40
148	46 1/4	117.50
150	45 1/2	115.60
152	44 3/4	113.70
154	44	111.76
156	43 1/8	109.50
158	42 3/4	108.60
160	41 3/4	106.00
162	40 3/4	102.50
164	40 1/16	102.20
166	39 3/4	101.00
168	39	99.10
170	38 3/8	97.50
172	37 3/4	95.90
174	37 1/4	94.60

NOTE: 1. If using a spring, deduct the length of the spring from the overall whip length as shown above. 2. If using a black coated whip, for proper electrical contact with the antenna, remove the black coating from the portion of the whip which goes into the antenna ferrule (cone).

MODEL'S 1115/1115B/1118B		
1/4 WAVE UNITY GAIN		
10 MHz BANDWIDTH		
(CUT WHIP FROM BOTTOM)		
Operating Freq. MHz	Whip Length	
	Inches	CM
136	20 3/4	52.71
138	20 1/2	52.07
140	20 1/4	51.44
142	20	50.80
144	19 3/4	50.17
146	19 7/16	49.37
148	19 3/16	48.74
150	19	48.26
152	18 11/16	47.47
154	18 1/2	46.99
156	18 1/4	46.36
158	18	45.72
160	17 13/16	45.24
162	17 9/16	44.61
164	17 5/16	43.97
166	17 1/8	43.50
168	16 7/8	42.86
172	16 7/16	41.75
220	12 1/2	31.75
225	12 3/8	31.43
225	12 3/8	30.96
400	6 15/16	17.62
410	6 13/16	17.30
420	6 5/8	16.83
430	6 7/16	16.35
440	6 5/16	16.03
450	6 1/16	15.40
460	6	15.24
470	5 7/8	14.92

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CUT CHARTS - UHF ANTENNAS

MODEL 1174A			
NO-GP PREMIUM COIL 1/2 WAVE (MEASURE FROM BOTTOM OF PHASING COIL AND CUT TO DESIRED FREQUENCY LENGTH)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
406	13 3/16	33.50	
410	13	33.02	
415	12 13/16	32.54	
420	12 1/2	31.75	
425	12 3/16	30.96	
430	12	30.48	
435	11 11/16	29.69	
440	11 7/16	29.05	
445	11 1/4	28.58	
460	11 1/8	28.26	

MODEL 1175A			
NO-GP PREMIUM COIL 1/2 WAVE (MEASURE FROM BOTTOM OF PHASING COIL AND CUT TO DESIRED FREQUENCY LENGTH)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
406	12 3/16	30.96	
410	12	30.48	
415	11 7/8	30.16	
420	11 3/4	29.85	
425	11 1/4	28.58	
430	11	27.94	

MODEL 1177A			
(CUT WHIP FROM BOTTOM)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
406	11 1/8	28.26	
410	10 13/16	27.46	
415	10 3/8	26.35	
420	9 5/8	24.45	
425	9 5/16	23.65	
430	9 1/16	23.02	

MODEL'S 1115/1115B/1118B			
1/4 WAVE UNITY GAIN 10 MHz BANDWIDTH			
(CUT WHIP FROM BOTTOM)			
Operating Freq. MHz	Rod Length		
	Inches	Cm	
Q		0.00	
136	20 3/4	52.71	
138	20 1/2	52.07	
140	20 1/4	51.44	
142	20	50.80	
144	19 3/4	50.17	
146	19 7/16	49.37	
148	19 3/16	48.74	
150	19	48.26	
152	18 11/16	47.47	
154	18 1/2	46.99	
156	18 1/4	46.36	
158	18	45.72	
160	17 13/16	45.24	
162	17 9/16	44.61	
164	17 5/16	43.97	
166	17 1/8	43.50	
168	16 7/8	42.86	
172	16 7/16	41.75	
220	12 1/2	31.75	
225	12 3/8	31.43	
225	12 3/16	30.96	
400	6 15/16	17.62	
410	6 13/16	17.30	
420	6 5/8	16.83	
430	6 7/16	16.35	
440	6 5/16	16.03	
450	6 1/16	15.40	
460	6	15.24	
470	5 7/8	14.92	

MODEL 1173			
(MEASURED FROM BOTTOM OF PHASING COIL AND CUT WHIP TO DESIRED LENGTH)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
450	13 1/8	33.34	
455	12 3/4	32.39	
460	12 5/16	31.27	
465	11 15/16	30.32	
470	11 9/16	29.37	

MODEL 1175			
NO-GP PREMIUM COIL 1/2 WAVE (MEASURE FROM BOTTOM OF PHASING COIL AND CUT TO DESIRED FREQUENCY LENGTH)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
450	11 1/4	28.58	
455	10 15/16	27.78	
460	10 13/16	27.46	
465	10 9/16	26.83	
470	10 1/4	26.04	

MODEL 1178			
(MEASURED FROM BOTTOM OF PHASING COIL AND CUT WHIP TO DESIRED LENGTH)			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
450	6 7/8	17.46	
455	6 11/16	16.99	
460	6 7/16	16.35	
465	6 1/4	15.88	
470	5 7/8	14.92	

NOTE: 1. If using a spring, deduct the length of the spring from the overall whip length as shown above. 2. If using a black coated whip, for proper electrical contact with the antenna, remove the black coating from the portion of the whip which goes into the antenna ferrule (cone).

MODEL 1174			
3 dB PREMIUM COIL 3/8 WAVE			
Operating Freq. MHz	Whip Length		
	Inches	Cm	
450	11 5/16	28.73	
455	11 1/8	28.26	
460	10 13/16	27.46	
465	10 5/8	26.99	
470	10 7/16	26.51	

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