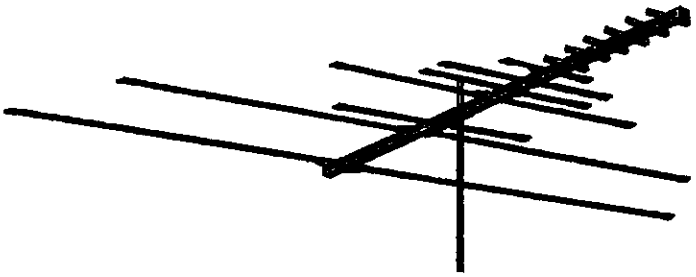
Engineering Specifications

ANTENNACRAFT®
Model AC13 VHF/UHF/FM Antenna



Model Number:	AC-13

General:

Channels	2 - 69
Electronic Elements	16
Output Impedance	300 ohms

Physical:

Boom Length	70"
Maximum Width	112"
Vertical Height	4"
Turning Radius	62.5"
Element Diameter	.375"
Shipping Weight	3.9 lbs.
Carton Dimensions	5.25" x 4.75" x 71"

Performance:

[1] Gain (dB)	
VHF Low Band	1.4
VHF High Band	4.1
UHF Band	2.0
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	71.3
VHF High Band	57.8
UHF Band	47.5
[3] Front-To-Back Ratio (dB)	
VHF Low Band	7.2
VHF High Band	10.0
UHF Band	5.3

1: Over Half-Wave Tuned Dipole (Ch. 2 - 69)

2: -3 dB Down Points

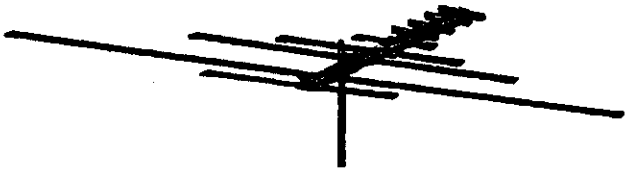
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model AC9 VHF/UHF/FM Antenna



Model Number:	AC-9

General:	
Channels	2 - 69
Electronic Elements	12
Output Impedance	300 ohms

Physical:	
Boom Length	30"
Maximum Width	98"
Vertical Height	4"
Turning Radius	50.5"
Element Diameter	.375"
Shipping Weight	2.8 lbs.
Carton Dimensions	5.75" x 4.75" x 51"

Performance:	
[1] Gain (dB)	
VHF Low Band	0.4
VHF High Band	3.7
UHF Band	3.0
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	75.7
VHF High Band	54.8
UHF Band	52.1
[3] Front-To-Back Ratio (dB)	
VHF Low Band	1.0
VHF High Band	7.5
UHF Band	6.9

1: Over Half-Wave Tuned Dipole (Ch. 2 - 62)

2: -3 dB Down Points

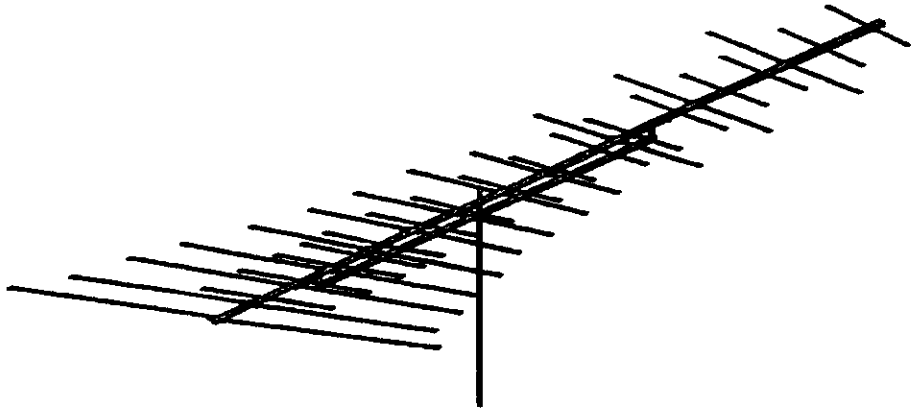
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model CS1100 VHF/FM Antenna



Model Number:	CS-1100

General:

Channels	2 - 13
Electronic Elements	42
Output Impedance	300 ohms

Physical:

Boom Length	180"
Maximum Width	110"
Vertical Height	6"
Turning Radius	108"
Element Diameter	.375"
Shipping Weight	11.8 lbs.
Carton Dimensions	5.25" x 6" x 112"

Performance:

1 Gain (dB)	
VHF Low Band	6.9
VHF High Band	9.6
UHF Band	N/A
2 Half-Power Beamwidth (deg.)	
VHF Low Band	61.0
VHF High Band	38.5
UHF Band	N/A
3 Front-To-Back Ratio (dB)	
VHF Low Band	19.4
VHF High Band	17.6
UHF Band	N/A

1: Over Half-Wave Tuned Dipole

2: -3 dB Down Points

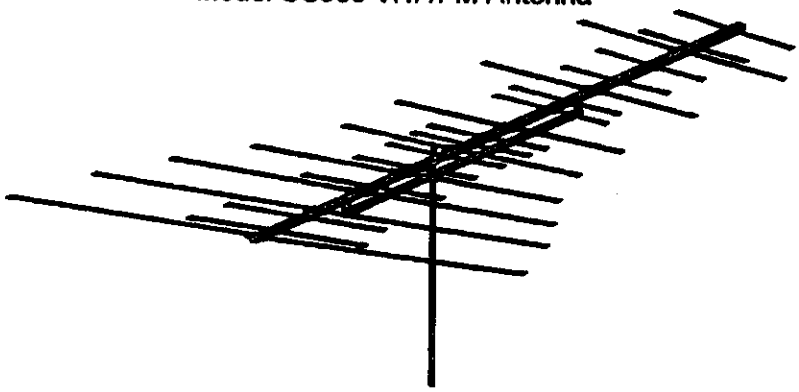
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT.

Model CS900 VHF/FM Antenna



Model Number:	CS-900

General:

Channels	2 - 13
Electronic Elements	33
Output Impedance	300 ohms

Physical:

Boom Length	120"
Maximum Width	112"
Vertical Height	6"
Turning Radius	73"
Element Diameter	.375"
Shipping Weight	8.2 lbs.
Carton Dimensions	6.5" x 6.5"x 81"

Performance:

[1] Gain (dB)	
VHF Low Band	5.9
VHF High Band	8.0
UHF Band	N/A
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	64.7
VHF High Band	37.5
UHF Band	N/A
[3] Front-To-Back Ratio (dB)	
VHF Low Band	13.6
VHF High Band	13.4
UHF Band	N/A

1: Over Half-Wave Tuned Dipole

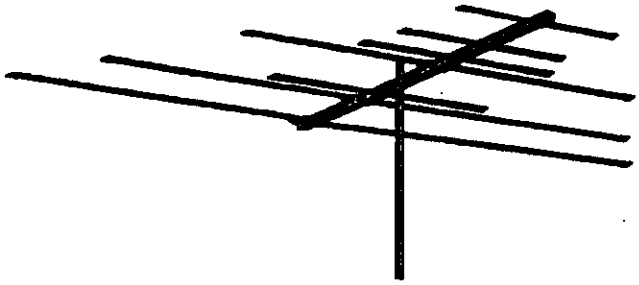
2: -3 dB Down Points

3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT.
Model CS600 VHF/FM Antenna



Model Number:	CS-600

General:

Channels	2 - 13
Electronic Elements	10
Output Impedance	300 ohms

Physical:

Boom Length	50"
Maximum Width	102"
Vertical Height	4"
Turning Radius	55"
Element Diameter	.375"
Shipping Weight	3.5 lbs.
Carton Dimensions	5.875" x 4.75" x 61"

Performance:

1 Gain (dB)	
VHF Low Band	2.3
VHF High Band	5.5
UHF Band	N/A
2 Half-Power Beamwidth (deg.)	
VHF Low Band	72.0
VHF High Band	37.3
UHF Band	N/A
3 Front-To-Back Ratio (dB)	
VHF Low Band	6.4
VHF High Band	7.9
UHF Band	N/A

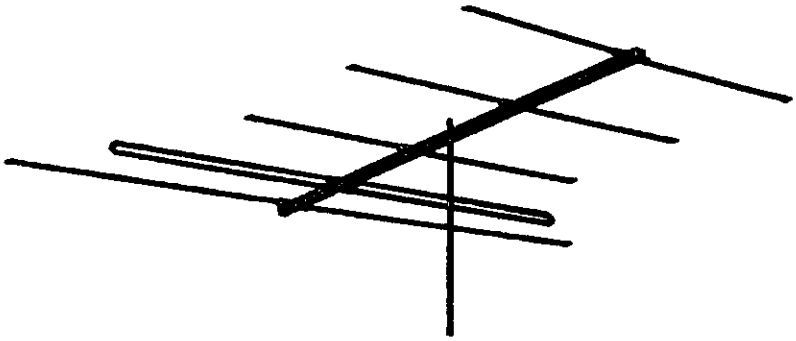
1: Over Half-Wave Tuned Dipole
2: -6 dB Down Points
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model Y5-2-6 VHF Yagi Antenna



Model Number:	Y5-2-6

General:	
Channels	2 - 6
Electronic Elements	5
Output Impedance	300 ohms

Physical:	
Boom Length	80"
Maximum Width	112"
Vertical Height	4"
Turning Radius	69"
Element Diameter	.375"
Shipping Weight	4.5 lbs.
Carton Dimensions	5.875" x 4.75" x 81"

Performance:	
1 Gain (dB)	
VHF Low Band	4.9
VHF High Band	N/A
UHF Band	N/A
2 Half-Power Beamwidth (deg.)	
VHF Low Band	66.3
VHF High Band	N/A
UHF Band	N/A
3 Front-To-Back Ratio (dB)	
VHF Low Band	9.8
VHF High Band	N/A
UHF Band	N/A

1: Over Half-Wave Tuned Dipole

2: -3 dB Down Points

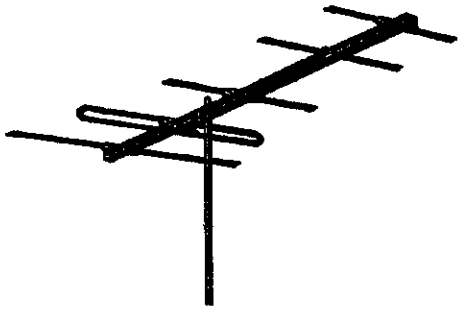
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model Y5-7-13 VHF Yagi Antenna



Model Number:	Y5-7-13

General:	
Channels	7 - 13
Electronic Elements	5
Output Impedance	300 ohms

Physical:	
Boom Length	60"
Maximum Width	35.75"
Vertical Height	4"
Turning Radius	41.5"
Element Diameter	.375"
Shipping Weight	4.7 lbs.
Carton Dimensions	5.875" x 4.75" x 61"

Performance:		
[1] Gain (dB)		
	VHF Low Band	N/A
	VHF High Band	6.9
	UHF Band	N/A
[2] Half-Power Beamwidth (deg.)		
	VHF Low Band	N/A
	VHF High Band	55.5
	UHF Band	N/A
[3] Front-To-Back Ratio (dB)		
	VHF Low Band	N/A
	VHF High Band	13.3
	UHF Band	N/A

1: Over Half-Wave Tuned Dipole

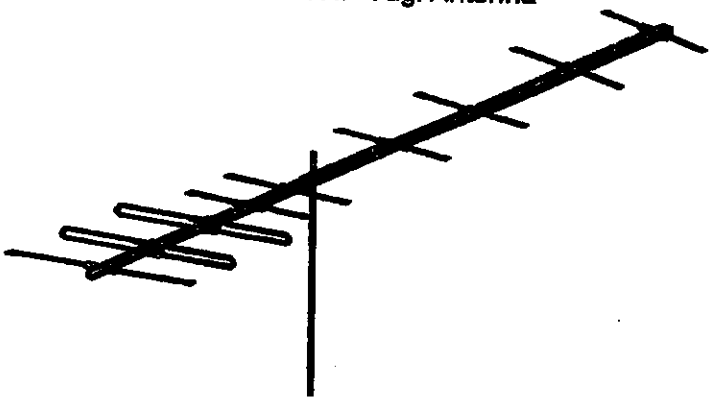
2: -3 dB Down Points

3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®
Model Y5-7-13 VHF Yagi Antenna



Model Number:	Y10-7-13

General:

Channels	7 - 13
Electronic Elements	10
Output Impedance	300 ohms

Physical:

Boom Length	120"
Maximum Width	35.75"
Vertical Height	4"
Turning Radius	70"
Element Diameter	.375"
Shipping Weight	4.8 lbs.
Carton Dimensions	4.5" x 6" x 71"

Performance:

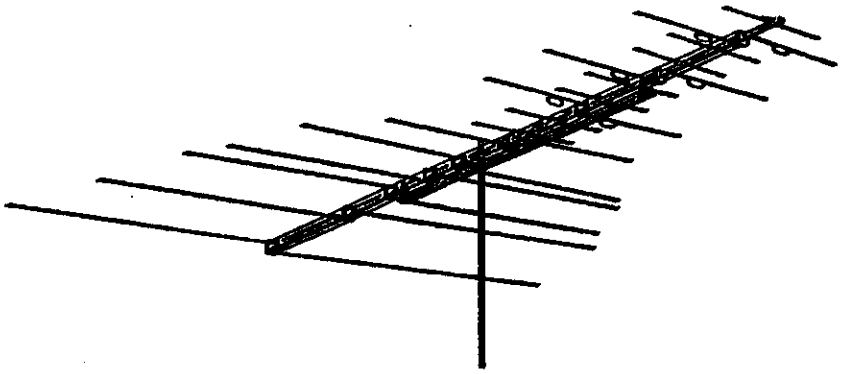
[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	9.4
UHF Band	N/A
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	44.5
UHF Band	N/A
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	16.5
UHF Band	N/A

1: Over Half-Wave Tuned Dipole
2: -6 dB Down Points
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®
Model 3BG22 Permacolor® VHF/FM Antenna



Model Number:	3BG22

General:

Channels	2 - 13
Electronic Elements	22
Output Impedance	300 ohms

Physical:

Boom Length	134"
Maximum Width	108"
Vertical Height	4"
Turning Radius	82.5"
Element Diameter	.375"
Shipping Weight	7.5 lbs.
Carton Dimensions	5.75" x 8.75" x 88.25"

Performance:

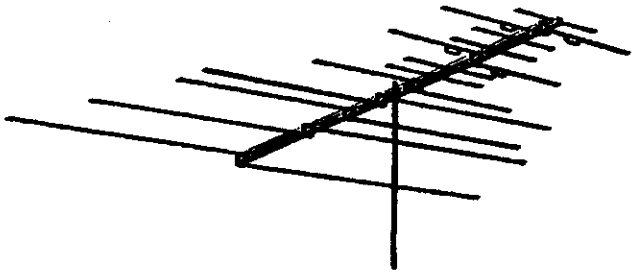
Gain (dB)	
VHF Low Band	5.3
VHF High Band	9.0
UHF Band	N/A
Half-Power Beamwidth (deg.)	
VHF Low Band	66.0
VHF High Band	37.3
UHF Band	N/A
Front-To-Back Ratio (dB)	
VHF Low Band	15.8
VHF High Band	15.5
UHF Band	N/A

1: Over Half-Wave Tuned Dipole
2: -3 dB Down Points
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®
Model 3BG17 Permacolor® VHF/FM Antenna



Model Number:	3BG17

General:

Channels	2 - 13
Electronic Elements	17
Output Impedance	300 ohms

Physical:

Boom Length	97"
Maximum Width	108"
Vertical Height	4"
Turning Radius	73"
Element Diameter	.375"
Shipping Weight	7.0 lbs.
Carton Dimensions	5" x 5.25" x 103"

Performance:

Gain (dB)	
VHF Low Band	4.9
VHF High Band	8.0
UHF Band	N/A
Half-Power Beamwidth (deg.)	
VHF Low Band	66.0
VHF High Band	46.8
UHF Band	N/A
Front-To-Back Ratio (dB)	
VHF Low Band	13.2
VHF High Band	14.3
UHF Band	N/A

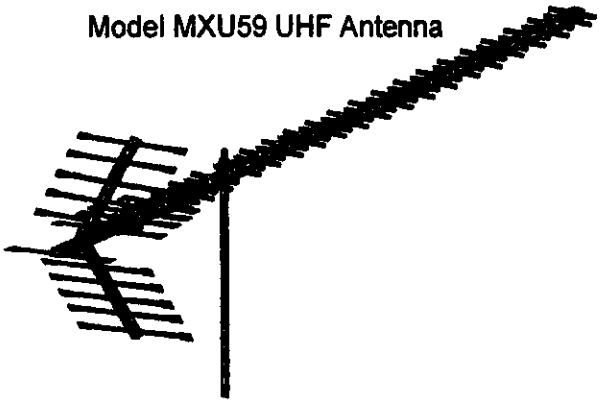
1: Over Half-Wave Tuned Dipole
2: -3 dB Down Points
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model MXU59 UHF Antenna



Model Number:	MXU-59

General:

Channels	14 - 69
Electronic Elements	59
Output Impedance	300 ohms

Physical:

Boom Length	100"
Maximum Width	20"
Vertical Height	38"
Turning Radius	66"
Element Diameter	.375"
Shipping Weight	7.0 lbs.
Carton Dimensions	6.25" x 6.25" x 101"

Performance:

[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	10.7
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	32.4
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	17.0

1: Over Half-Wave Tuned Dipole (Ch. 14 - 82)

2: -3 dB Down Points

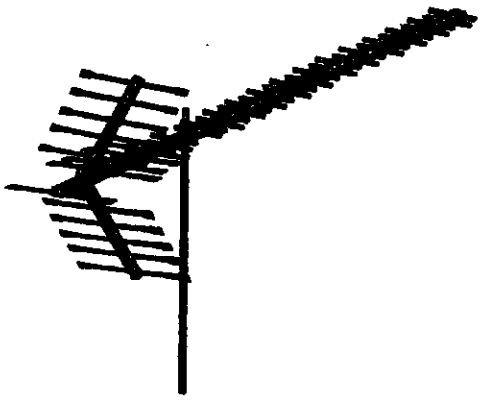
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model MXU47 UHF Antenna



Model Number:	MXU-47

General:

Channels	14 - 69
Electronic Elements	47
Output Impedance	300 ohms

Physical:

Boom Length	80"
Maximum Width	20"
Vertical Height	32"
Turning Radius	52.5"
Element Diameter	.375"
Shipping Weight	6.0 lbs.
Carton Dimensions	6.25" x 6.25" x 81"

Performance:

[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	10.1
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	33.0
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	16.1

1: Over Half-Wave Tuned Dipole (Ch. 14 - 82)

2: -3 dB Down Points

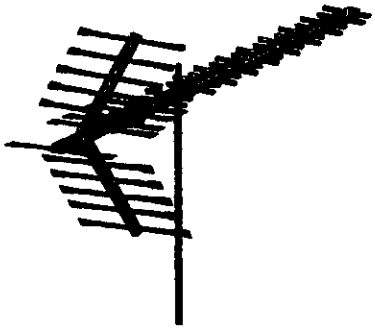
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®

Model MXU37 UHF Antenna



Model Number:	MXU-37

General:

Channels	14 - 69
Electronic Elements	37
Output Impedance	300 ohms

Physical:

Boom Length	60"
Maximum Width	20"
Vertical Height	32"
Turning Radius	34.5"
Element Diameter	.375"
Shipping Weight	5.0 lbs.
Carton Dimensions	6.25" x 6.25" x 61"

Performance:

[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	9.2
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	37.9
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	14.8

1: Over Half-Wave Tuned Dipole (Ch. 14 - 62)

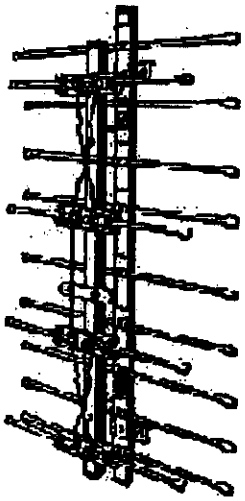
2: -3 dB Down Points

3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®
Model U1000 UHF Antenna



Model Number:	U-1000

General:

Channels	14 - 69
Electronic Elements	17
Output Impedance	300 ohms

Physical:

Boom Length	35"
Maximum Width	20"
Vertical Height	35"
Turning Radius	10"
Element Diameter	.375"
Shipping Weight	3.1 lbs.
Carton Dimensions	5.75" x 6.75" x 51.5"

Performance:

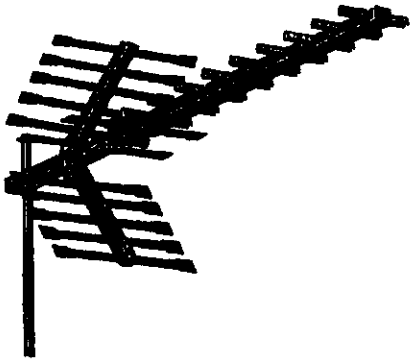
[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	8.1
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	51.0
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	20.5

1: Over Half-Wave Tuned Dipole (Ch. 14 - 82)
2: -3 dB Down Points
3: Opposite Hemisphere

Antennacraft, P.O. Box 1005, Burlington, IA 52601

Engineering Specifications

ANTENNACRAFT®
Model CY1470 UHF Antenna



Model Number:	CY-1470

General:	
Channels	14 - 69
Electronic Elements	21
Output Impedance	300 ohms

Physical:	
Boom Length	50"
Maximum Width	16"
Vertical Height	25"
Turning Radius	48.5"
Element Diameter	.375"
Shipping Weight	3.3 lbs.
Carton Dimensions	6.25" x 5.75" x 51"

Performance:	
[1] Gain (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	7.3
[2] Half-Power Beamwidth (deg.)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	44.6
[3] Front-To-Back Ratio (dB)	
VHF Low Band	N/A
VHF High Band	N/A
UHF Band	16.4

1: Over Half-Wave Tuned Dipole (Ch. 14 - 62)

2: -3 dB Down Points

3: Opposite Hemisphere

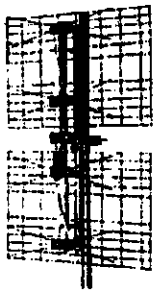
Antennacraft, P.O. Box 1005, Burlington, IA 52601

Antennas Direct Antennas

ANTENNAS DIRECT

HDTV Antenna Review

The following chart highlights the main characteristics for all of our HDTV antennas. It is important to note that the range of an antenna will vary greatly depending on the height, power, and frequency of the transmitting tower as well as the height of the antenna and the terrain and number of obstacles between it and the receiver. See our **Choosing the Best HDTV Antenna** page for more information.



Indoor Antennas
Short Range Antennas
Medium Range Antennas
Long Range Antennas
VHF Antennas
Yagi Antennas
Mounting Brackets
Cable, Amps, & Combiners

Product Name	Range*	Style	Indoor | Outdoor	Primary Channels	Gain	Length/ Depth	Width	Height	Weight
Short Range									
DB2	1-30	Multi-Directional	Indoor | Outdoor	UHF 14-69	11.4 dB	4"	19"	12"	2.8 lbs.
SR8	1-15	Uni-Directional	Indoor	UHF 14-69	6.5 dB				
SR15	1-30	Uni-Directional	Outdoor	UHF 14-69	11.0 dB	35"	13"	14"	4.5 lbs.
PF7	1-15	Multi-Directional	Indoor	UHF 14-69	6.5 dB	1"	11"	8"	1.5 lbs.
Medium Range									
DB2	1-30	Multi-Directional	Indoor | Outdoor	UHF 14-69	11.4 dB	4"	19"	12"	2.8 lbs.
DB4	15-55	Multi-Directional	Outdoor	UHF 14-69	13.7 dB	4"	19"	29"	4.5 lbs.
SR15	1-30	Uni-Directional	Outdoor	UHF 14-69	11.0 dB	35"	13"	14"	4.5 lbs.
42XG	10-50	Uni-Directional	Outdoor	UHF 14-69	14.2 dB	39"	19"	15"	4.0 lbs.
Long Range									
DB8	50-70+	Multi-Directional	Outdoor	UHF 14-69	15.8 dB	4"	42"	29"	10.0 lbs.
43XG	15-60	Uni-Directional	Outdoor	UHF 14-69	15.7 dB	62"	18"	19"	5.0 lbs.
91XG	50-70+	Uni-Directional	Outdoor	UHF 14-69	16.7 dB	93"	20"	22"	6.5 lbs.
VHF									
V10	1-25	Uni-Directional	Outdoor	VHF 7-13, UHF 14-69	7.8 dB	32"	69"	n/a	4.5 lbs.
V15	1-45	Uni-Directional	Outdoor	VHF 7-13, UHF 14-69	10.8 dB	43"	95"	n/a	6.5 lbs.
V21	15-65	Uni-Directional	Outdoor	VHF 2-13, UHF 14-69	12.9 dB	59"	110"	n/a	8.5 lbs.
V4	1-55	Uni-Directional	Outdoor	VHF 2-6	4.5 dB	48"	112"	n/a	5.5 lbs.

*The range of an antenna will vary greatly depending on many factors including the height of the mount, topography, direction, etc...

note: all measurements are taken at the widest/highest part of the antenna

Copyright © Antennas Direct, 2005
Antennas Direct, 1511 Windwood Hills Rd. Wildwood, MO 63021
877-825-5572

Web Design by Captiva Marketing

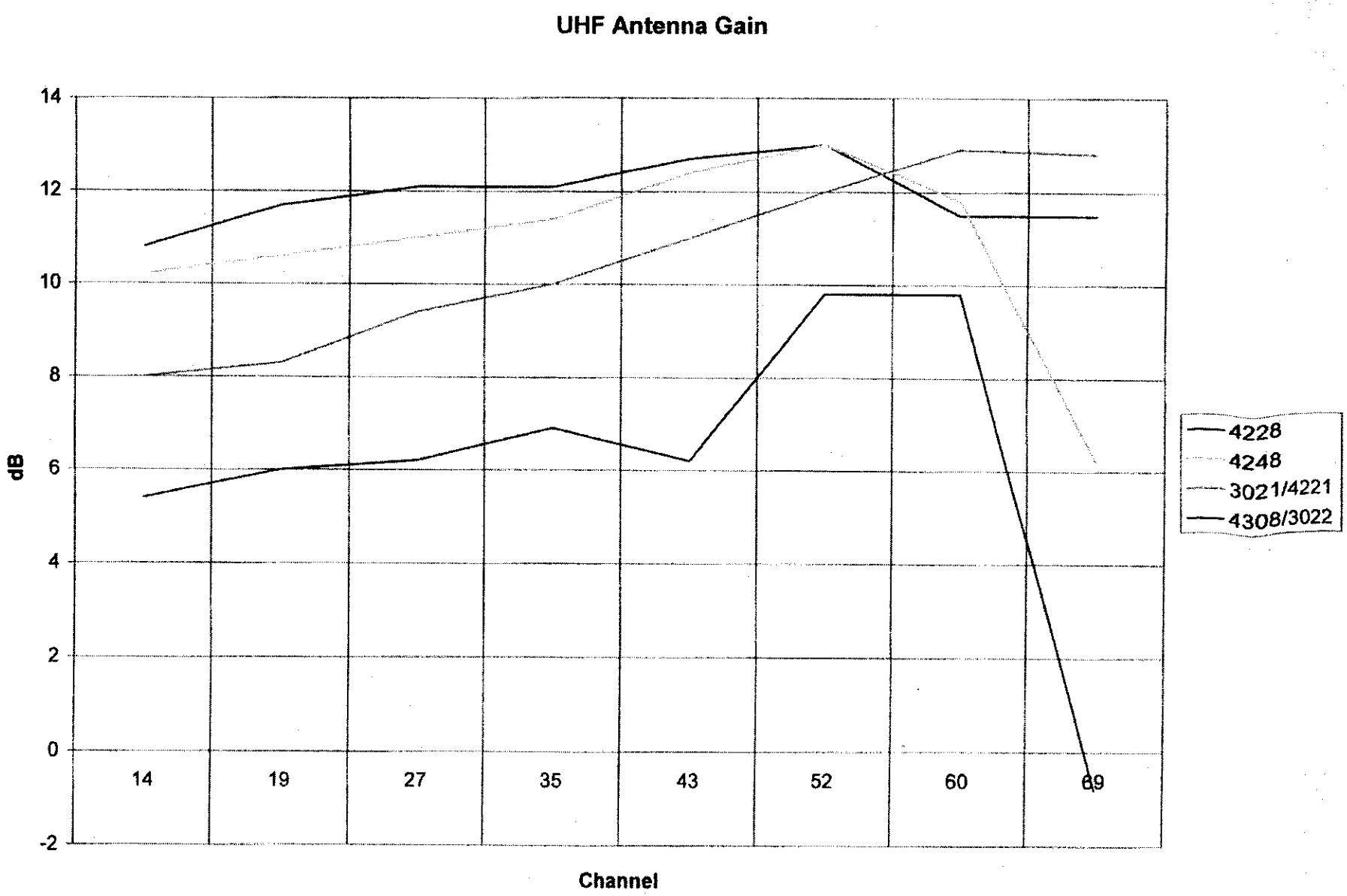
Channel Master Antennas

(Data provided directly by Channel Master.)

UHF ANTENNAS

		Antenna Model	4228	4248	3023	3021/4221	4308/3022
Channel	Frequency(MHz)		Gain	Gain	Gain	Gain	Gain
14	470		10.8	10.2	9.3	8	5.4
19	500		11.7	10.6	9.7	8.3	6
27	548		12.1	11	10.5	9.4	6.2
35	596		12.1	11.4	10.8	10	6.9
43	644		12.7	12.4	11	11	6.2
52	698		13	13	12.4	12	9.8
60	746		11.5	11.8	11.8	12.9	9.8
69	800		11.5	6.2	8.7	12.8	-0.8
		Average Gain	11.9	10.8	10.5	10.6	6.2
		Size	2.77	2.56	2.56	0.9	0.51
		Length	NA	82	82	NA	41

Gain in db over tuned dipole
Size in square feet
Length in inches


UHF Antenna Gain
14
12
10
8
6
4
2
0
-2
dB
14
19
27
35
43
52
60
69
Channel
4228
4248
3021/4221
4308/3022

UHF only pattern summary

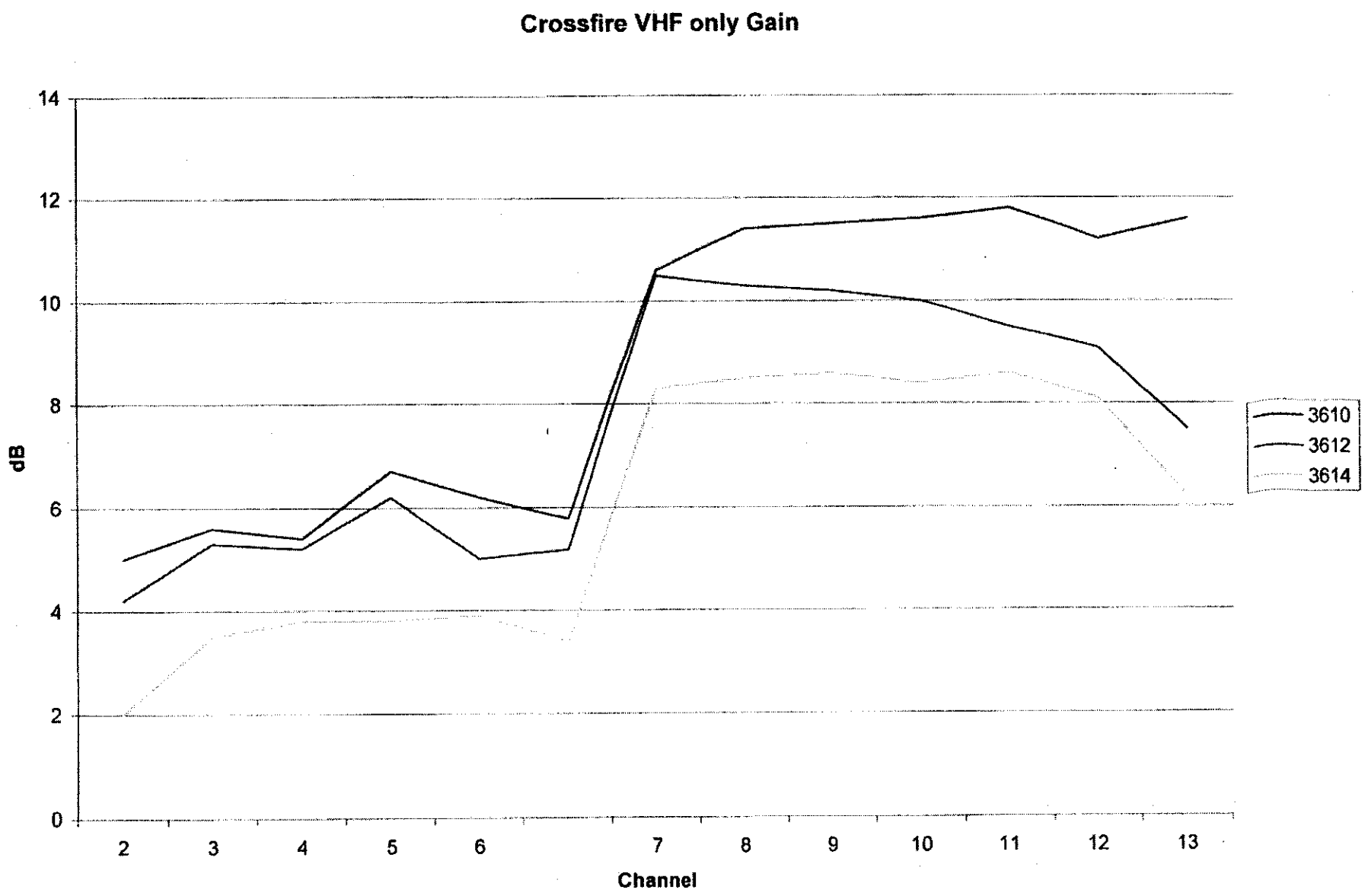
		antenna model	4228	4248	3023	4221/3021	4308/3022
Channel	Frequency(MHz)		BW, F/B	BW, F/B	BW, F/B	BW, F/B	BW, F/B
14	470		37deg, 22db	42deg, 17db	43deg, 18db	59deg, 17db	56deg, 21db
19	500		29deg, 23db	36deg, 22db	37deg, 19db	57deg, 16db	54deg, 19db
27	548		26deg, 21db	32deg, 19db	37deg, 23db	54deg, 15db	52deg, 20db
35	596		24deg, 19db	30deg, 21db	34deg, 16db	52deg, 17db	48deg, 15db
43	644		23deg, 24db	27deg, 24db	32deg, 17db	48deg, 16db	43deg, 18db
52	698		20deg, 21db	23deg, 18db	31deg, 19db	44deg, 17db	37deg, 20db
60	746		18deg, 20db	20deg, 15db	24deg, 18db	41deg, 15db	31deg, 16db

BW= 3db beamwidth in degrees
F/B= front to back ratio in db

CROSSFIRE VHF ANTENNAS

Antenna Model	3610	3611	3612	3613	3614
Channel	Gain	Gain	Gain	Gain	Gain
2	5	4.8	4.2	3.8	2
3	5.6	5.3	5.3	5	3.5
4	5.4	5.2	5.2	5.3	3.8
5	6.7	6.1	6.2	4.4	3.8
6	6.2	5.2	5	4.2	3.9
Low band avg	5.8	5.3	5.2	4.5	3.4
7	10.6	10.5	10.5	9.6	8.3
8	11.4	10.4	10.3	9.6	8.5
9	11.5	10.1	10.2	9.8	8.6
10	11.6	10.3	10	9.6	8.4
11	11.8	10	9.5	9.6	8.6
12	11.2	10.2	9.1	9	8.1
13	11.6	9.4	7.5	7.4	6.2
High band avg	11.4	10.1	9.6	9.2	8.1
Size	4.49	3.89	3.5	2.8	1.91
Length	147	122	111	87	63

Gain in db over tuned dipole
Size in square feet


Crossfire VHF only Gain
14
12
10
8
6
4
2
0
dB
2
3
4
5
6
7
8
9
10
11
12
13
Channel
3610
3612
3614

CROSSFIRE U/V ANTENNAS

		Antenna Model	3671	3678	3679	3677
Channel	Frequency(MHz)		Gain	Gain	Gain	Gain
2	54		4.9	5.2	3.8	2.2
3	60		5.5	4.8	5	2.7
4	66		5	5.2	3.5	3
5	76		6.2	4.8	4	1.5
6	82		6.2	3.7	3.5	2.2
		Low band avg	5.6	4.7	4.0	2.3
7	174		11	10.5	8.8	7.2
8	180		11.5	10.4	8	7.7
9	186		11	9.6	7.9	8
10	192		11	10	8.4	8.2
11	198		10.9	10	8.8	8.2
12	204		11	9.8	8.2	9
13	210		9.6	7	6.7	7
		High band avg	10.9	9.6	8.1	7.9
14	470		7.5	8.8	7.2	7.8
19	500		9.5	9	9	7.9
27	548		9.8	8.6	8.2	7.8
35	596		9.9	9.8	9.8	8.1
43	644		10	10	9.6	9
52	698		12.5	12.1	11.8	10.2
60	746		11	9	10.9	9
69	800		7.2	-0.5	4	7
		uhf avg	9.7	8.4	8.8	8.4
		size	4.92	3.98	3.2	2.51
		length	173	151	122	97

Gain in db over tuned dipole
Size in square feet
Length in inches

Crossfire UHF/VHF Antennas

Channel	Antenna Model	3671 Gain	3672 Gain	3678 Gain	3679 Gain	3674 Gain	3675 Gain	3677 Gain
2		4.9	5	5.2	3.8	3.8	2.8	2.2
3		5.5	5	4.8	5	4.7	2.7	2.7
4		5	5.1	5.2	3.5	4	2.8	3
5		6.2	4.9	4.8	4	4.1	3.2	1.5
6		6.2	4.6	3.7	3.5	3.9	4	2.2
	Low band avg	5.6	4.9	4.7	4.0	4.1	3.1	2.3
7		11	10.8	10.5	8.8	9.5	7.2	7.2
8		11.5	10.5	10.4	8	9	7.6	7.7
9		11	10.2	9.6	7.9	8.4	8	8
10		11	10.8	10	8.4	9.2	7.9	8.2
11		10.9	10.8	10	8.8	9.5	7.7	8.2
12		11	10.8	9.6	8.2	8.8	8.8	9
13		9.6	10	7	6.7	7	5	7
	High band avg	10.9	10.6	9.8	8.1	8.8	7.5	7.9
14		7.5	6	8.8	7.2	6	6	7.8
19		9.5	9	9	9	8	6.8	7.9
27		9.8	9.8	8.6	8.2	7.1	6.5	7.8
35		9.9	10.2	9.8	9.8	8.2	7.2	8.1
43		10	9.8	10	9.6	8.8	8	9
52		12.5	12.5	12.1	11.8	10.5	9.2	10.2
60		11	10	9	10.9	10.5	8.3	9
	uhf avg	10.0	9.6	9.6	9.5	8.4	7.4	8.5
	size	4.92	4.4	3.96	3.2	2.67	2.42	2.51
	length	173	154	151	122	109	96	97

Gain in db over tuned dipole
Size in square feet
Length in inches

Gain, Beamwidth, Front to Back Ratio

Channel	Antenna model	3671 BW, F/B	3672 BW, F/B	3678 BW, F/B	3679 BW, F/B	3674 BW, F/B	3677 BW, F/B	3675 BW, F/B	3676 BW, F/B
2		69deg, 24db	67deg, 21db	69deg, 21db	74deg, 10db	74deg, 10db	73deg, 12db	73deg, 11db	73deg, 12db
4		69deg, 24db	66deg, 21db	69deg, 20db	65deg, 18db	66deg, 17db	76deg, 10db	72deg, 12db	76deg, 10db
6		68deg, 26db	71deg, 21db	74deg, 22db	72deg, 15db	73deg, 15db	76deg, 11db	77deg, 13db	77deg, 10db
7		26deg, 18db	24deg, 14db	30deg, 17db	30deg, 15db	30deg, 15db	45deg, 16db	32deg, 11db	45deg, 18db
9		34deg, 18db	34deg, 17db	36deg, 15db	32deg, 15db	31deg, 15db	42deg, 11db	46deg, 14db	43deg, 11db
11		36deg, 14db	37deg, 17db	37deg, 14db	32deg, 12db	32deg, 13db	33deg, 9db	33deg, 10db	34deg, 9db
13		35deg, 16db	34deg, 16db	33deg, 13db	26deg, 10db	29deg, 9db	36deg, 11db	30deg, 11db	39deg, 11db
14		32deg, 12db	31deg, 12db	35deg, 17db	44deg, 13db	47deg, 10db	52deg, 10db	43deg, 5db	54deg, 8db
19		25deg, 13db	25deg, 13db	55deg, 17db	47deg, 21db	57deg, 15db	59deg, 12db	60deg, 12db	63deg, 11db
27		37deg, 17db	39deg, 15db	53deg, 14db	51deg, 12db	54deg, 11db	52deg, 11db	57deg, 11db	56deg, 9db
35		32deg, 15db	32deg, 14db	37deg, 14db	41deg, 13db	44deg, 12db	53deg, 16db	51deg, 12db	63deg, 16db
43		28deg, 15db	29deg, 15db	38deg, 17db	45deg, 15db	50deg, 14db	45deg, 19db	49deg, 14db	51deg, 17db
52		24deg, 16db	26deg, 18db	33deg, 18db	32deg, 23db	36deg, 21db	42deg, 18db	43deg, 17db	51deg, 18db
60		20deg, 9db	21deg, 11db	31deg, 12db	25deg, 14db	31deg, 14db	34deg, 14db	32deg, 16db	39deg, 13db

BW= 3db beamwidth in degrees
F/B= front to back ratio in db

ADVANTAGE ANTENNAS

Antenna Model	3020	3019	3018	3017	3016	3015	3014
Channel	*Gain*	*Gain*	*Gain*	*Gain*	*Gain*	*Gain*	*Gain*
2	2.5	1	1.2	-1.2	2.2	0.2	-0.2
3	4.1	3.2	2.7	2.2	0.1	0.3	0.6
4	4.3	3.7	1.6	2.1	1.4	0.6	0.7
5	3.8	3.6	3.2	2.7	1.6	1.3	1.5
6	3.2	3.2	2.6	2.9	0.8	1.1	1.1
Low band avg	3.6	2.9	2.3	1.74	1.2	0.7	0.7
7	6.6	7.6	8.4	7.9	8	5.5	4.4
8	8.8	8.6	8.9	8.4	8.6	6.6	5.5
9	9.9	9.4	9	8.6	8.7	6.7	5
10	9	8.5	7.6	8.3	8.4	6.2	4.1
11	8.5	8.4	8	7.5	7.4	5.4	4.3
12	9.1	8	8.2	7.2	7.2	5.3	4.3
13	8.1	6.9	7.6	6.6	6.8	5.3	4.6
High band avg	8.6	8.2	8.2	7.8	7.9	5.9	4.6
14	8.2	7.5	7.1	6	5.5	4.2	2.4
19	9.4	8.4	7.2	6.5	6.5	4.9	1.3
27	9.2	8.5	8	6.8	6.3	8	6
35	10.3	9.7	9.1	9.5	8.1	6.2	6.6
43	9.9	9.3	7.7	8.8	8.9	6.6	6.1
52	9.8	11	9.7	9.8	9.2	8.3	7.6
60	9.5	10.2	10.1	9.6	9.5	3.8	5.7
69	0.6	0.1	0	-1	7	-2	-2
uhf avg	8.4	8.1	7.4	7.0	7.6	5.0	4.2
size	4.12	3.22	2.55	2.19	1.72	1.29	0.99
length	152	133	113	94	66	52	52

Gain in db over tuned dipole
Size in square feet
Length in inches