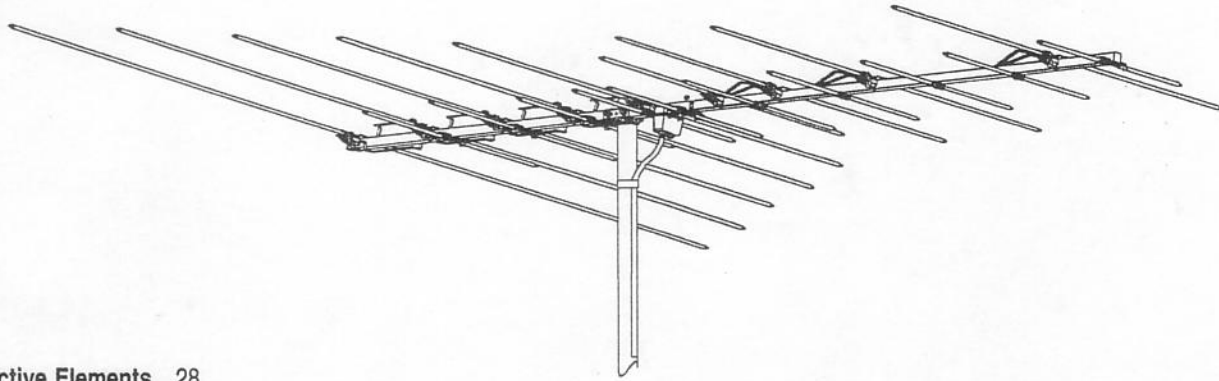


**engineering specifications**

Model HD-4053



Active Elements 28  
 Boom Length 111"  
 Turning Radius 72.0"  
 Maximum Width 110"  
 Vertical Height 5"  
 Element Diameter 3/8"

Finish Blue Polymeric Finish  
 Shpg. Weight 8 lbs.  
 Carton Dimensions 6.25"x6.25"x68.250"

Output Impedance: 75 ohm  
 Recommended Preamp: AP Series

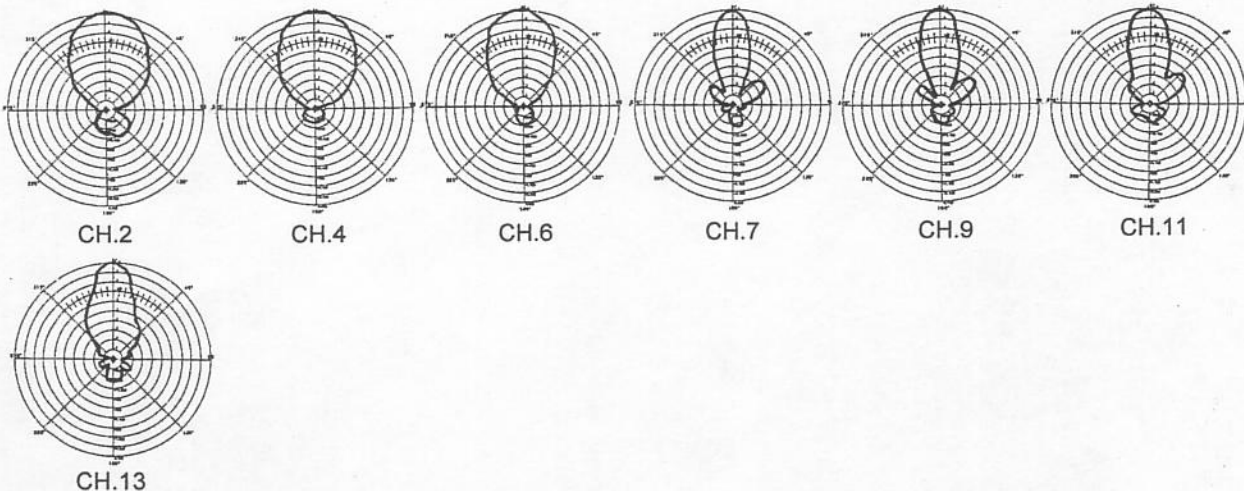


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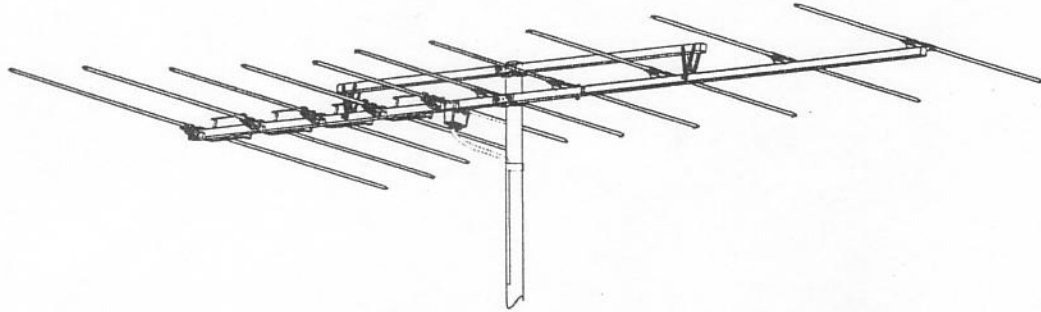
CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13
dB gain over reference dipole	5.9	6.6	6.4	9.6	11.1	9.8	10.6
beamwidth at half power points	68°	67°	62°	29°	31°	32°	34°
front-to-back ratio	105dB	17dB	15dB	13dB	14dB	14dB	13dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-6065



Active Elements 10  
 Boom Length 127"  
 Turning Radius 69"  
 Maximum Width 71.750"    Finish Blue Polymeric Finish  
 Vertical Height 7.750"    Shpg. Weight 8.5 lbs.  
 Element Diameter 3/8"    Carton Dimensions 6.25"x6.25"x68.25"



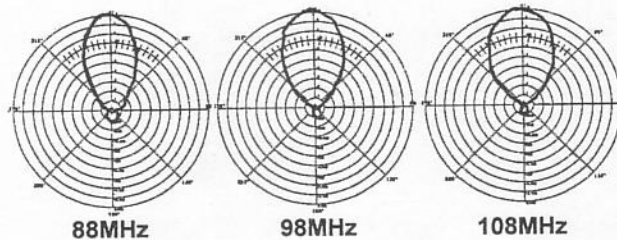
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Output Impedance: 75 ohm  
 Recommended Preamp: AP Series

Made in U.S.A.

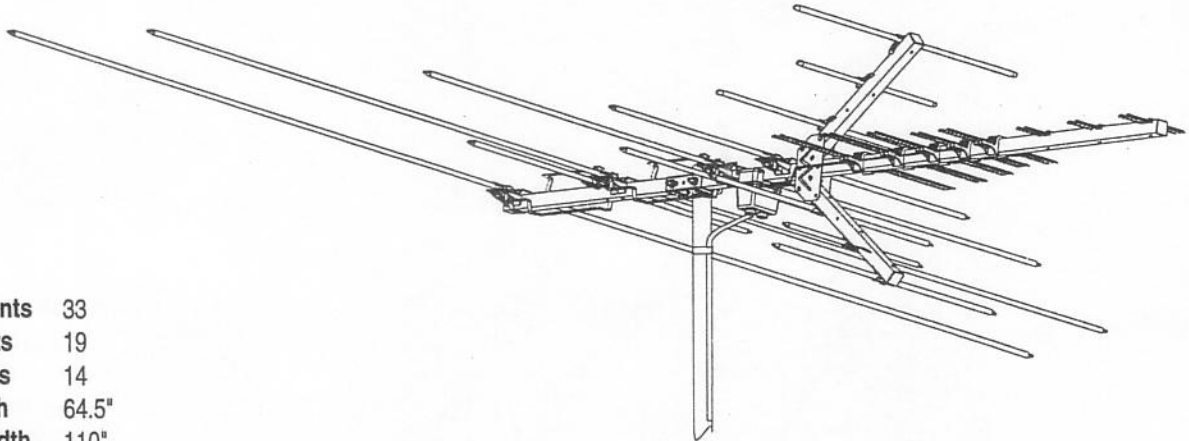
CHANNEL	88MHz	98MHz	108MHz
dB gain over reference dipole	9.4	10.6	10.6
beamwidth at half power points	54°	53°	44°
front-to-back ratio	20dB	20dB	18dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-7078



Active Elements 33  
 UHF Elements 19  
 VHF Elements 14  
 Boom Length 64.5"  
 Maximum Width 110"  
 Vertical Height 19"  
 Turning Radius 60"  
 Element Diameter 3/8"

Finish Blue Polymer Finish  
 Shpg. Weight 7 lbs.  
 Carton Dimensions 6.25"x6.25"x77"

Output Impedance: 75 ohm  
 Recommended Preamp: AP Series

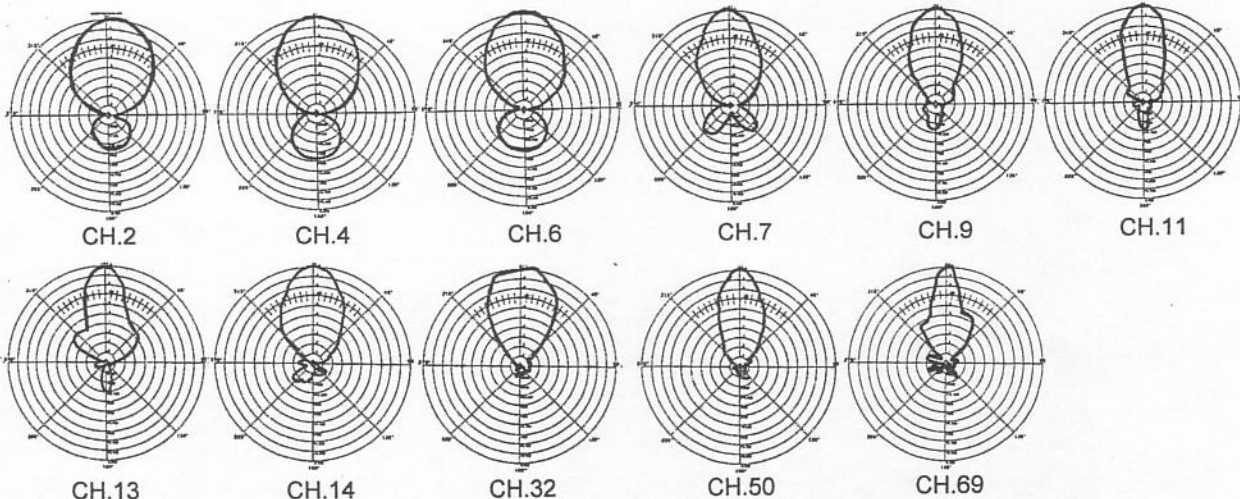


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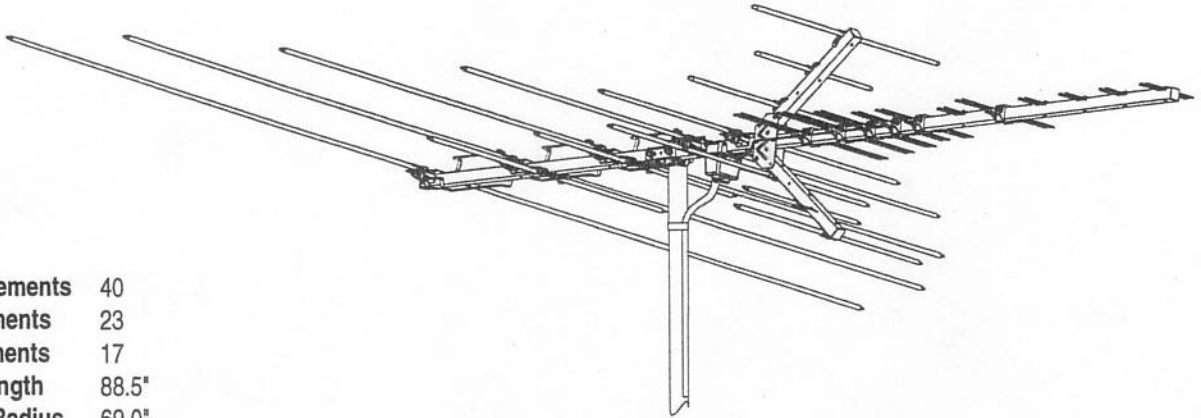
CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	3.5	3.4	2.0	8.3	7.6	8	9.9	11.5	10.4	10.7	9.7
beamwidth at half power points	72°	72°	71°	50°	41°	37°	34°	51°	59°	35°	23°
front-to-back ratio	9dB	6.5dB	7.5dB	8.5dB	11.5dB	11dB	10.5dB	-12dB	20dB	25dB	14dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-7080



Active Elements	40	Finish	Blue Polymer Finish
UHF Elements	23	Shpg. Weight	8 lbs.
VHF Elements	17	Carton Dimensions	6.25"x6.25"x89"
Boom Length	88.5"		
Turning Radius	69.0"		
Maximum Width	110"		
Vertical Height	19"		
Element Diameter	3/8"		



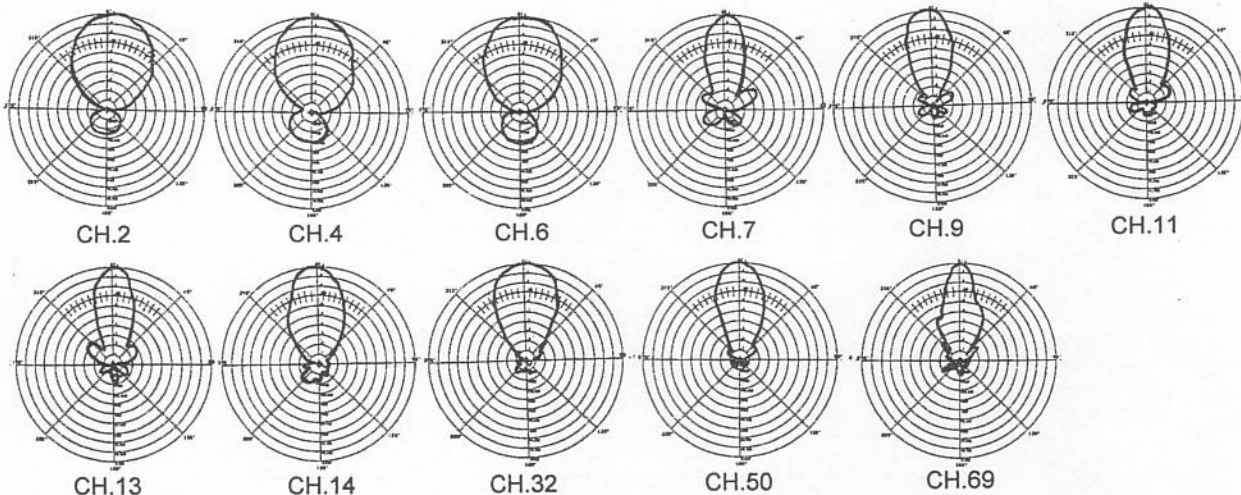
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Output Impedance: 75 ohm  
Recommended Preamp: AP Series

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CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	5.1	5	2.8	9.6	9.5	9.2	11	11.7	11.4	11	10.2
beamwidth at half power points	70°	70°	70°	32°	38°	37°	32°	46°	54°	41°	25°
front-to-back ratio	11.5dB	10.5dB	10.4dB	12dB	17dB	16dB	17dB	13dB	17dB	20dB	14dB

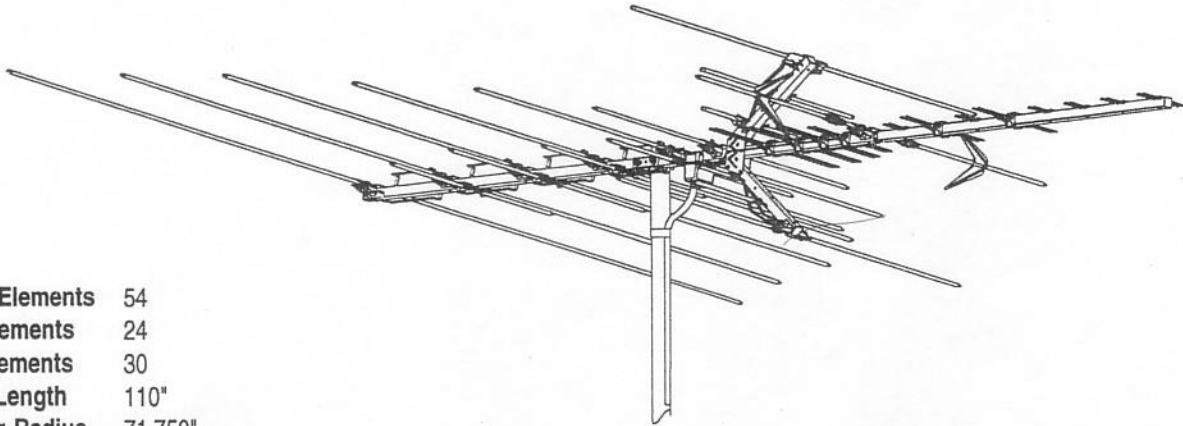
**POLAR PATTERNS**






**engineering specifications**

Model HD-7082



Active Elements 54  
 UHF Elements 24  
 VHF Elements 30  
 Boom Length 110"  
 Turning Radius 71.750"  
 Maximum Width 110"    Finish Blue Polymer Finish  
 Vertical Height 19"    Shpg. Weight 9.5 lbs.  
 Element Diameter 3/8"    Carton Dimensions 6.25"x6.25"x77"

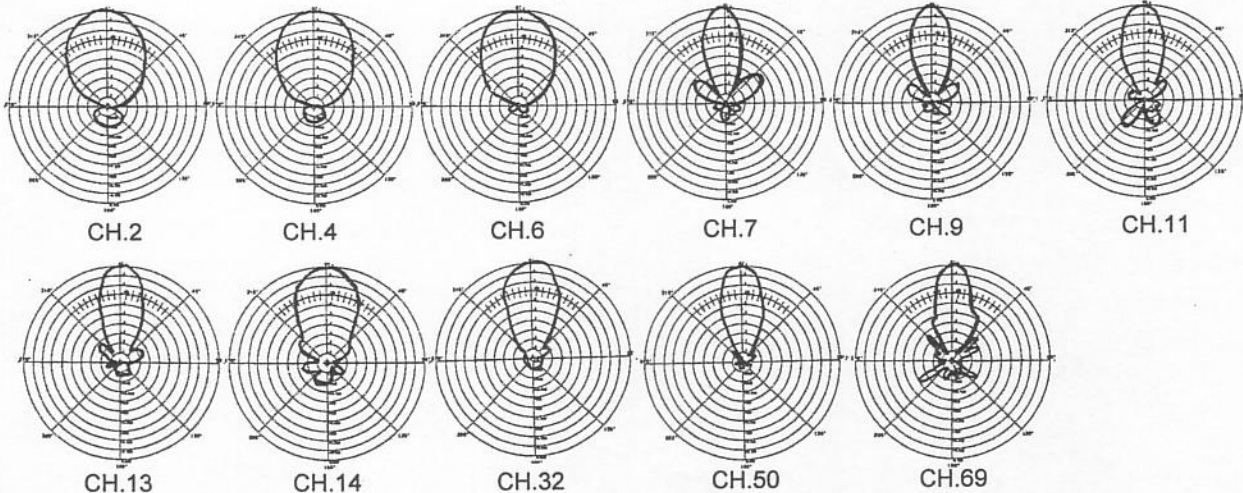
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Output Impedance: 75 ohm  
 Recommended Preamp: AP Series

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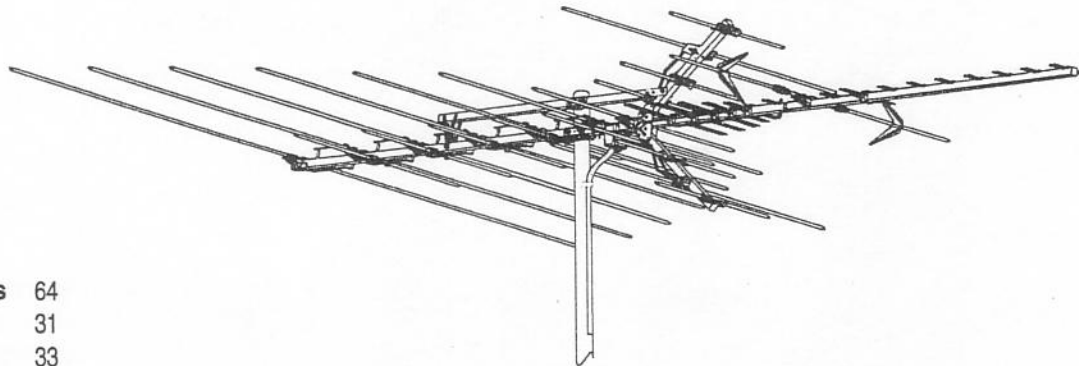
CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	6.4	6.4	6.2	10	10.9	10.2	11	13	12.2	11.5	12.2
beamwidth at half power points	67°	69°	66°	30°	30°	34°	34°	53°	45°	34°	24°
front-to-back ratio	14dB	17dB	20dB	15dB	13dB	10.5dB	18dB	12dB	20dB	25dB	8dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-7084



Active Elements	64		
UHF Elements	31		
VHF Elements	33		
Boom Length	136"		
Turning Radius	86.750"		
Maximum Width	110"	Finish	Blue Polymer Finish
Vertical Height	25.5"	Shpg. Weight	12 lbs.
Element Diameter	3/8"	Carton Dimensions	6.25"x6.25"x89.00"



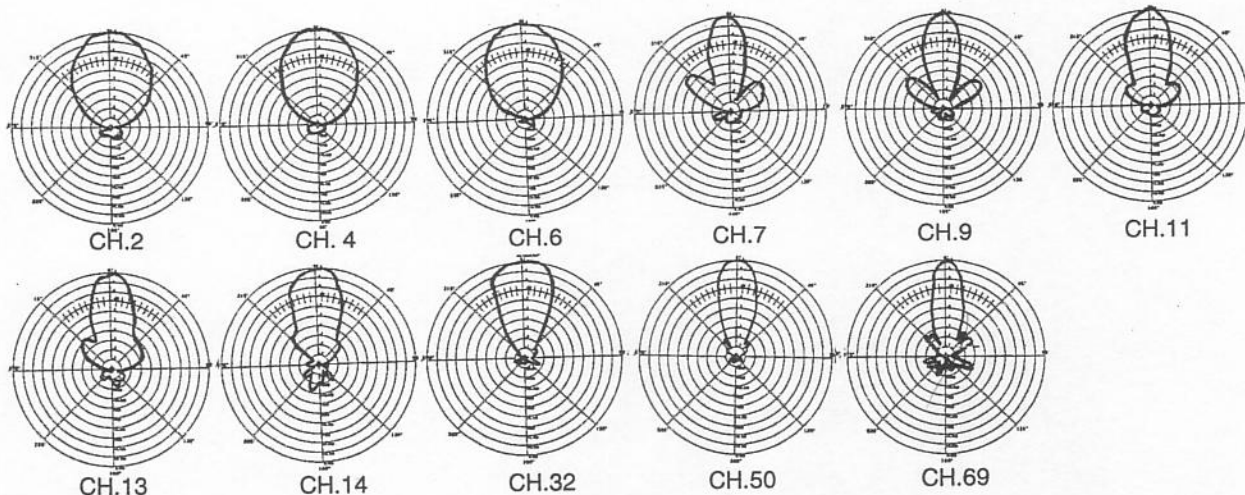
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Output Impedance: 75 ohm  
Recommended Preamp: AP Series

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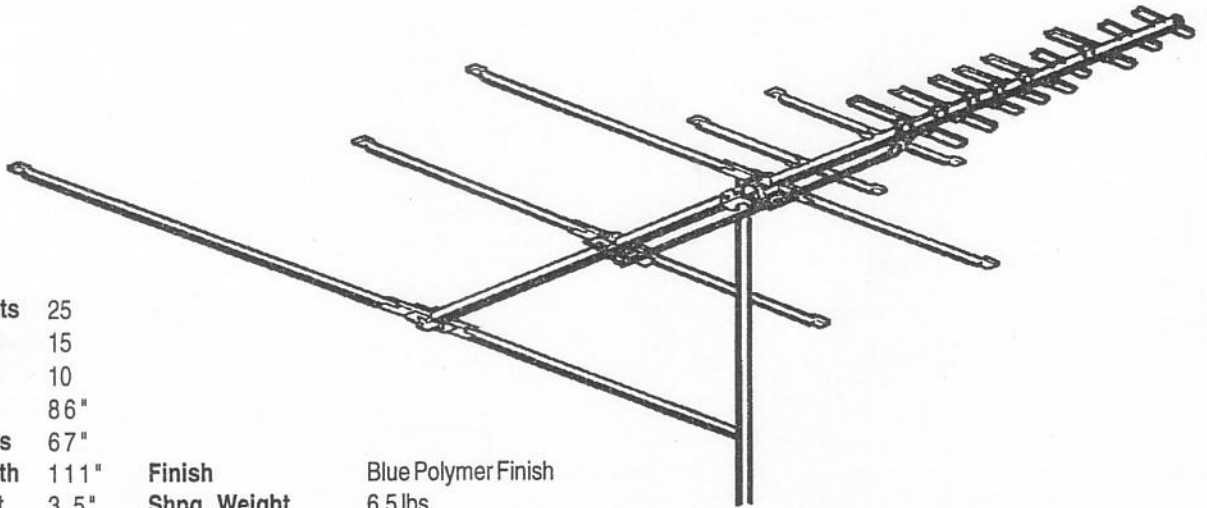
CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	6.2	7.2	7.6	10.9	12	11	10.8	14.6	12.1	11.8	12.5
beamwidth at half power points	69°	67°	67°	30°	30°	35°	32°	42°	47°	32°	24°
front-to-back ratio	18dB	19dB	20dB	15dB	20dB	19dB	16dB	12dB	17dB	25dB	-11dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-7210  
GHOST KILLER™



Active Elements	25	Finish	Blue Polymer Finish
UHF Elements	15	Shpg. Weight	6.5 lbs.
VHF Elements	10	Carton Dimensions	6.25"x6.25"x89"
Boom Length	86"		
Turning Radius	67"		
Maximum Width	111"		
Vertical Height	3.5"		
Element Diameter	3/8"		



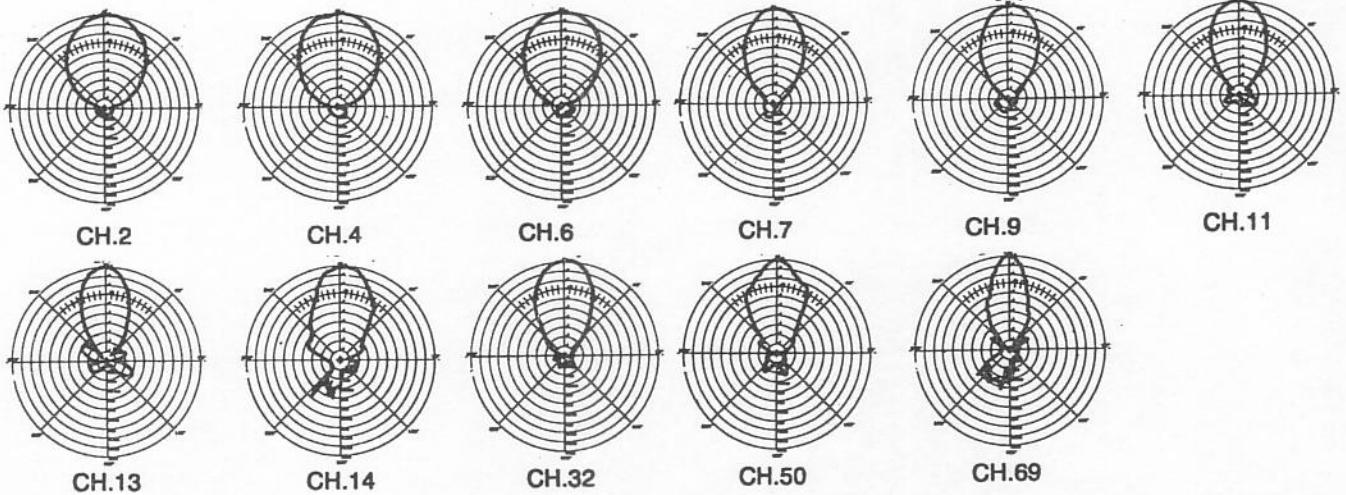
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Output Impedance: 75 ohm  
Recommended Preamp: AP Series

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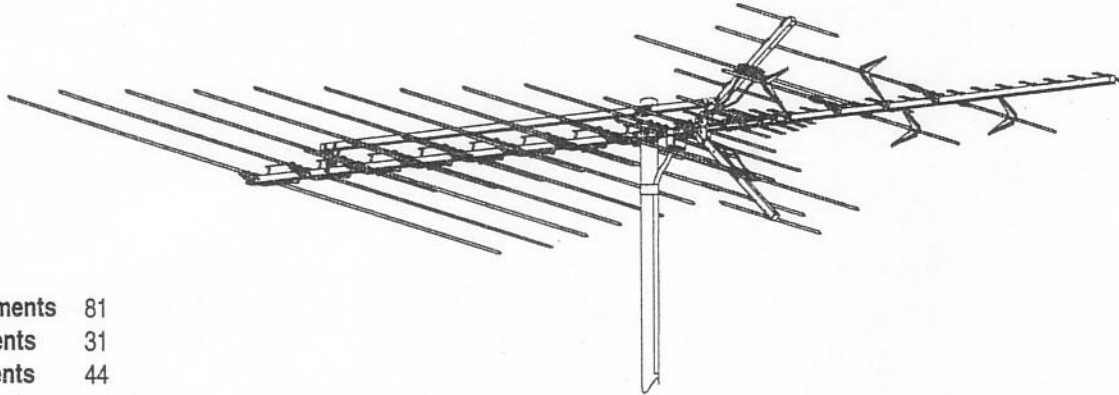
CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	73°	73°	70°	53°	50°	48°	42°	50°	50°	56°	31°
front-to-back ratio	greater than 20dB	20dB	19dB	17dB	17dB	15dB	10.5dB	8dB	17dB	13dB	9dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-8200



Active Elements	81		
UHF Elements	31		
VHF Elements	44		
Boom Length	177.5"		
Turning Radius	98.5"		
Maximum Width	110"	Finish	Blue Polymer Finish
Vertical Height	31.5"	Shpg. Weight	15.5lbs.
Element Diameter	3/8"	Carton Dimensions	6.25"x6.25"x101"



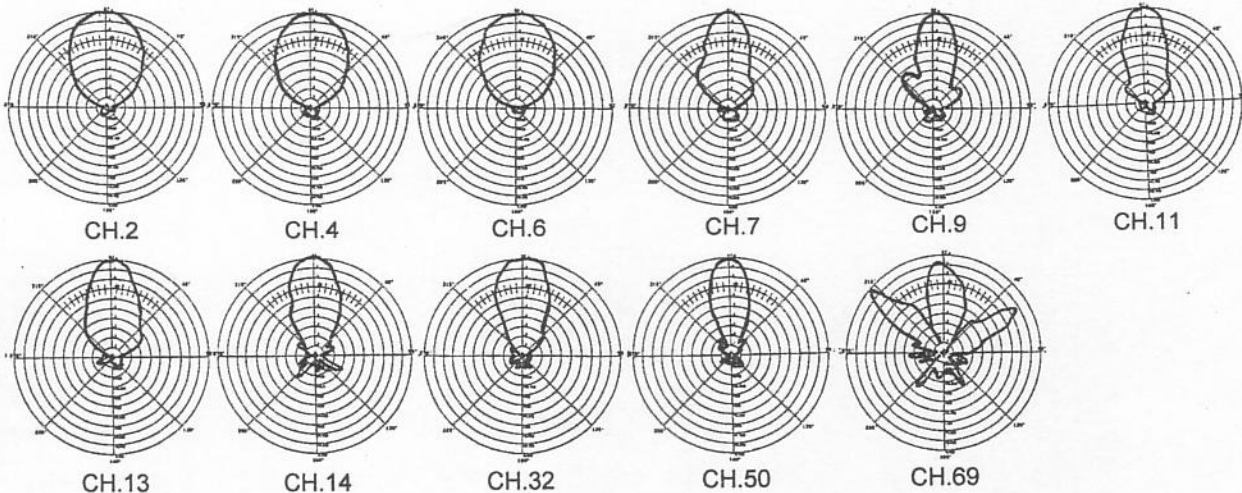
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Output Impedance: 75 ohm  
Recommended Preamp: AP Series

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CHANNEL	CH.2	CH.4	CH.6	CH.7	CH.9	CH.11	CH.13	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	7	7.7	8.0	11.2	12.6	11	12	14.6	13.7	12.2	13
beamwidth at half power points	64°	64°	65°	37°	32°	38°	42°	43°	45°	30°	30°
front-to-back ratio	25dB	20dB	30dB	18dB	18dB	20dB	18dB	11dB	17dB	17dB	7.5dB

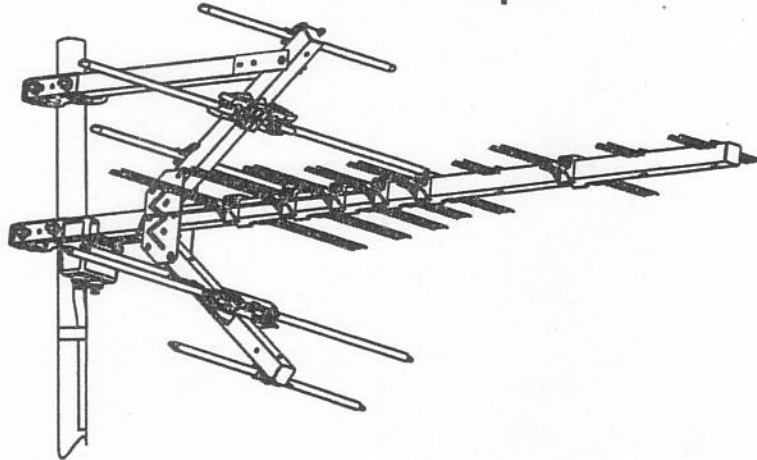
**POLAR PATTERNS**





**engineering specifications**

Model HD-9065



Active Elements	23	Finish	Blue Polymer Finish
Boom Length	50"	Shpg. Weight	6 lbs.
Turning Radius	47.7"	Carton Dimensions	6.25" x 6.25" x 59"
Maximum Width	27"		
Vertical Height	19"		
Element Diameter	3/8"		



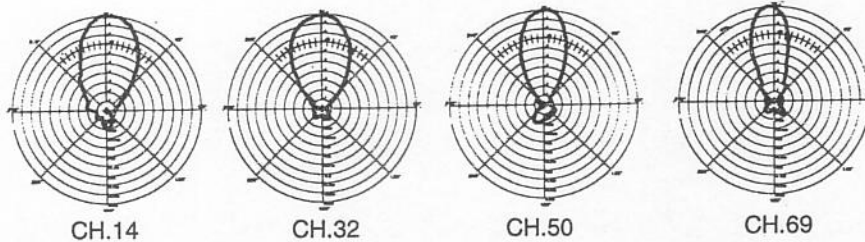
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Output Impedance:	75 ohm
Recommended Preamp:	AP Series

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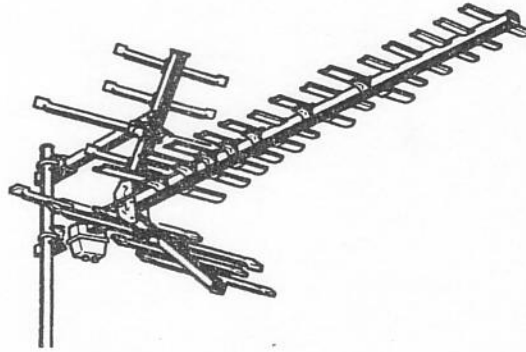
CHANNEL	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	11.9	12.1	11.6	10.6
beamwidth at half power points	52°	53°	40°	31°
front-to-back ratio	14dB	19dB	14dB	17dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-9085



Active Elements 31  
 Boom Length 75"  
 Turning Radius 72.75"  
 Maximum Width 27"    Finish Blue Polymer Finish  
 Vertical Height 25.5"    Shpg. Weight 6.5 lbs.  
 Element Diameter 3/8"    Carton Dimensions 6.25"x6.25"x59"



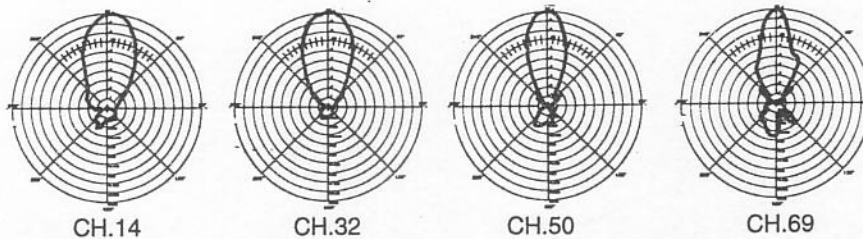
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Output Impedance: 75 ohm  
 Recommended Preamp: AP Series

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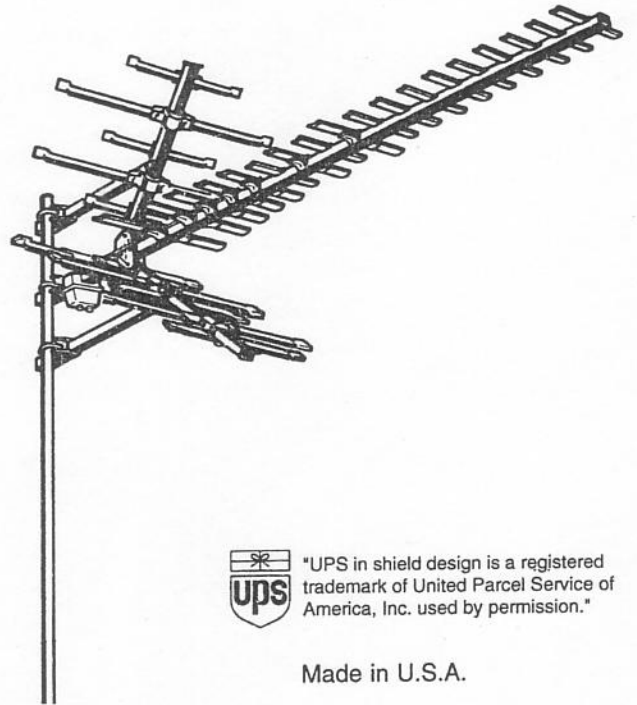
CHANNEL	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	11.9	14.6	14.5	12.8
beamwidth at half power points	45°	44°	32°	23°
front-to-back ratio	14dB	18dB	12dB	9dB

**POLAR PATTERNS**



**engineering specifications**

Model HD-9095



Active Elements	39		
Boom Length	95"		
Turning Radius	92.75"		
Maximum Width	27"	Finish	Blue Polymer Finish
Vertical Height	31.75"	Shpg. Weight	8 lbs.
Element Diameter	3/8"	Carton Dimensions	6.25"x6.25"x59"

Output Impedance: 75 ohm  
Recommended Preamp: AP Series



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CHANNEL	CH.14	CH.32	CH.50	CH.69
dB gain over reference dipole	14.2	16	15.5	12.2
beamwidth at half power points	43°	41°	30°	34°
front-to-back ratio	11dB	14dB	11dB	8dB

**POLAR PATTERNS**

