HF ANTENNAS

=> Search by Part Number

DICONEX
laroche group
DELTA OHM

CATALOGUE EDITION 7

For Long Range Communications

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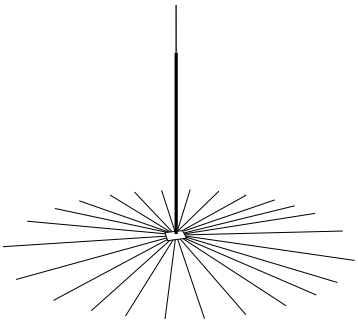
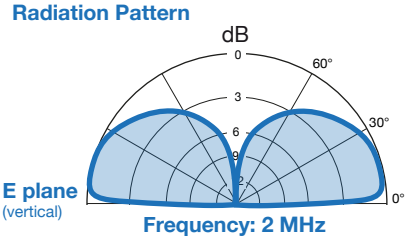
AFA - VLF / LF / HF



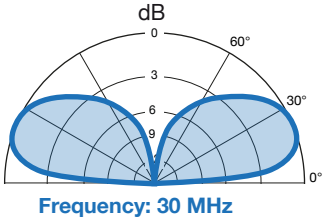
Frequency range	10 KHz to 30 MHz	Height	4 m
Impedance	50 Ω	Standard grounding	Ø 3 m (24 radials)
VSWR in the band	< 7 (2-30 MHz)	Materials	AGS - POM C - stainless steel
Polarization	Vertical	Weight	17 kg
Radiation pattern		Windspeed resistance	160 km/h without frost
- E plan	Medium elevation 15°	Temperature range	-40° to +70°C
- H plan	Omni at ± 0.5 dB	Color	White RAL 9010
Connector	Nf		

Radiation Pattern



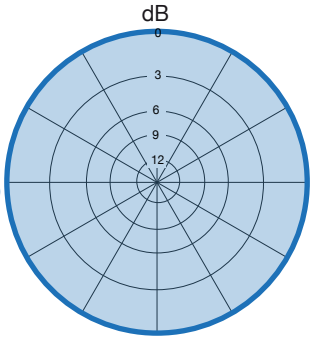
E plane
(vertical)

Frequency: 2 MHz



Frequency: 30 MHz

Radiation Pattern



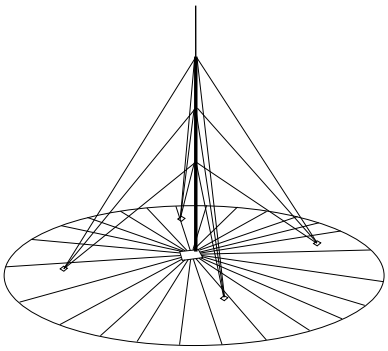
H plane
(horizontal)

Frequency 2 to 30 MHz

Return to Search by Part Number

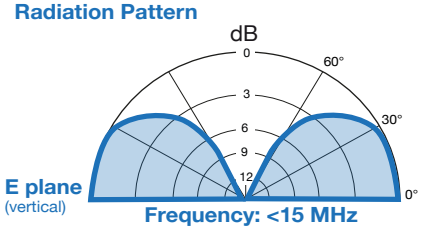
P/N	Model
99-0158	AFA - VLF/LF/HF standard version

AOF HF 2 - 30

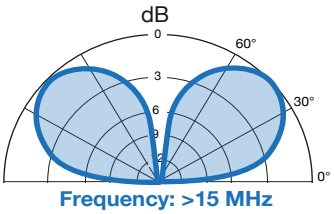


Frequency range	2 to 30 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 10 m
VSWR in the band	< 1.5 (with tuning box)	- Standard grounding	Ø 40 m (24 radials)
Maximum gain		- High density grounding	Ø 60 m (24 radials)
- at 3 MHz	0 dBi	Height	12.4 m
- at 6 MHz	2.5 dBi	Staying	3 levels of 4 parafil stays
- at 15 MHz	5 dBi		
Polarization	Vertical	Materials	AGS - POM C - stainless
Radiation pattern		Windspeed resistance	200 km/h without frost
- E plan	Medium elevation 25°	Temperature range	-40° to +70°C
- H plan	Omni at ± 0.5 dB	Color	Army green (IR NATO 24x5)
Maximum input power	1 kW cw		
Connector	N f		

Radiation Pattern

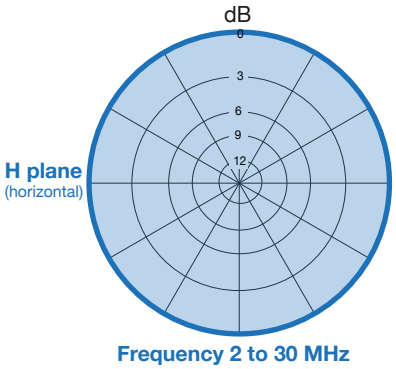


Frequency: <15 MHz



Frequency: >15 MHz

Radiation Pattern



Frequency 2 to 30 MHz

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P/N	Model
99-0046	AOF HF 2-30 standard version

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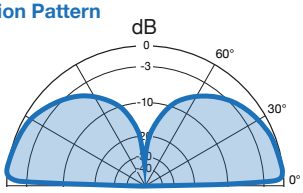
AHF FA 5 - 10

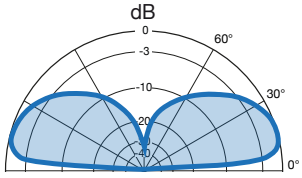
Frequency range	2 to 30 MHz	Height	7 m
Impedance	50 Ω	Standard grounding	Ø 30 m (32 radials)
VSWR in the band	< 5 (5-10 MHz)	Material / coating	AGS / fiberglass
Maximum gain	3 - 4.5 dBi	Windspeed resistance	200 km/h without frost
Polarization	Vertical	Temperature range	-40° to +70°C
Radiation pattern	See diagrams	Color	Grey RAL 7010
Connector	7-16 f		

Radiation Pattern

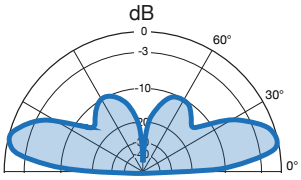
E plane (vertical)



Frequency: 2 MHz

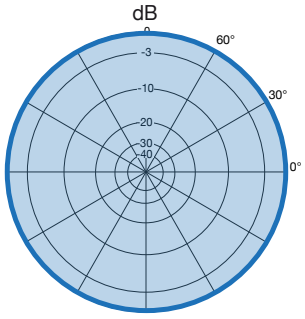


Frequency: 16 MHz



Frequency: 24 MHz

H plane (horizontal)

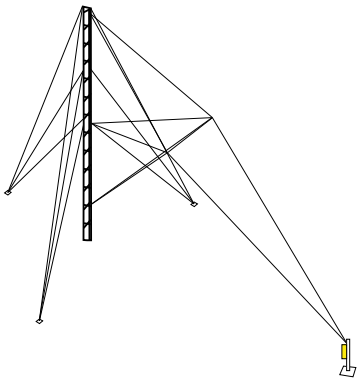


Frequency: 2 to 30 MHz

Return to Search by Part Number

P/N	Model
99-0071	AHF FA 5 - 10 standard version

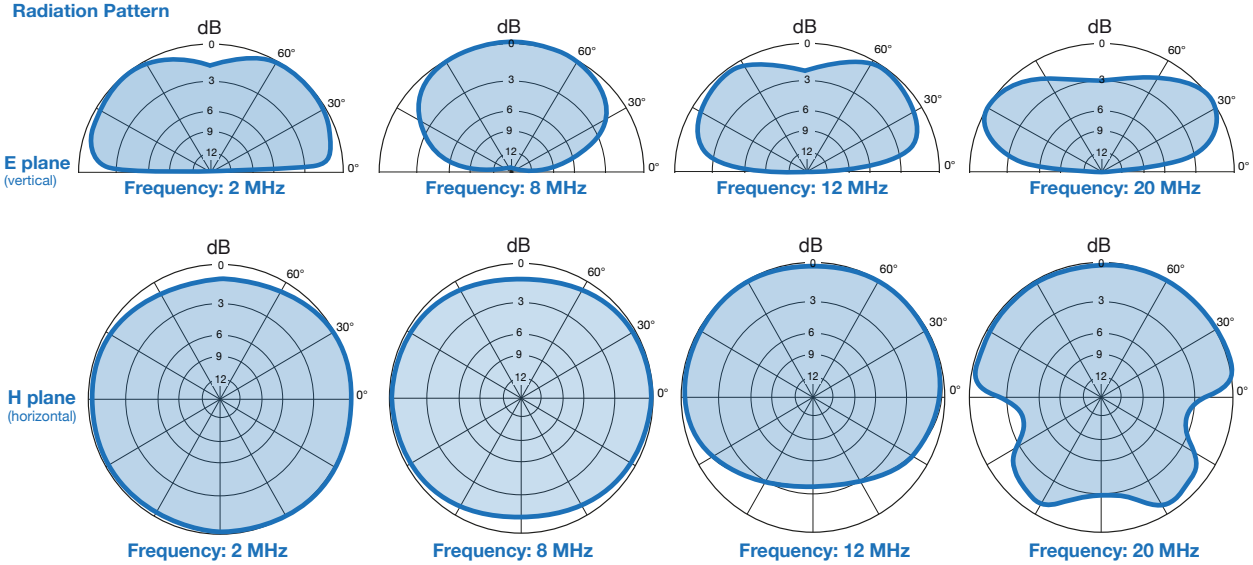
ASD HF 2 - 30



Frequency range	2 to 30 MHz
Impedance	50 Ω
VSWR in the band	< 2.5
Maximum gain	
- at 3 MHz	- 8 dBi
- at 6 MHz	- 1 dBi
- at 15 MHz	+ 4 dBi
Polarization	Horizontal
Radiation pattern	see diagrams
Maximum input power	1 kW cw
Connector	Nf

Dimensions on ground	
Trapezium (LB x SB x H)	8 x 6 x 36 m
Mast height	
- standard version	16 m
- tactical version	12 m
Staying	
- standard version	4 levels of 3 stays
- tactical version	3 levels of 4 stays
Radiating array material	Stainless steel cables
Windspeed resistance	200 km/h without frost
Temperature range	-40° to +70°C

Radiation Pattern



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P/N	Model
99-0028	ASD HF 2-30 standard version
99-0029	ASD HF 2-30-T tactical version

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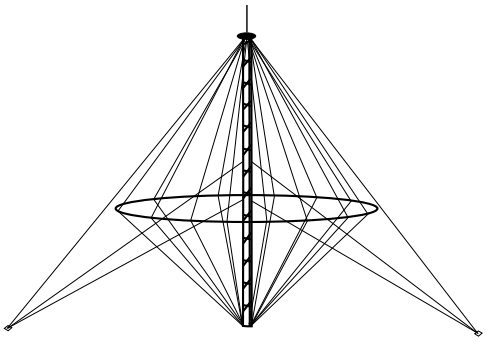
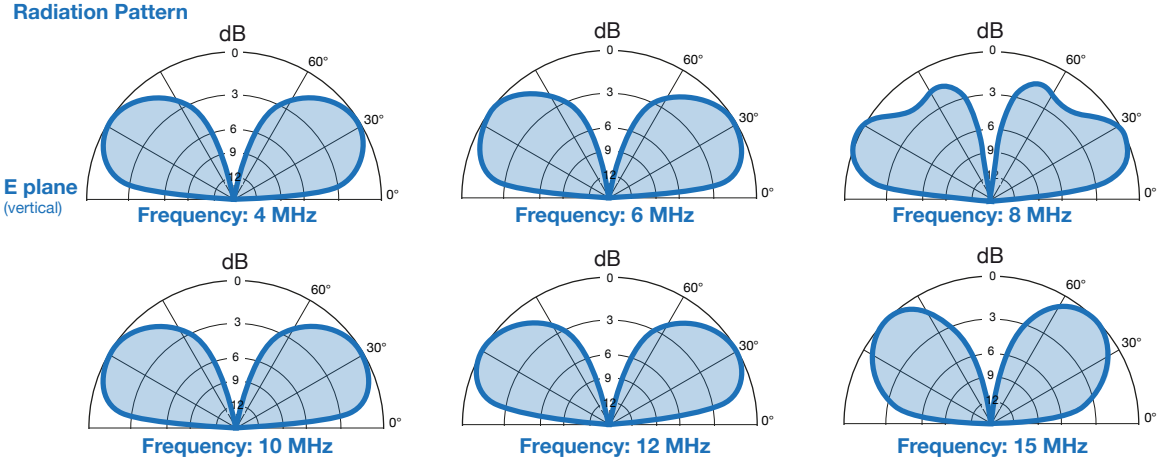
ABC HF 4 - 15



Frequency range	4 to 15 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 16.5 m
VSWR in the band	< 2.5	- Standard grounding	Ø 46 m (32 radials)
Maximum gain		- High density grounding	Ø 60 m (60 radials)
- Standard artificial grounding	3 - 4 dBi	Mast height	12 m
- High density artificial grounding	5 – 6 dBi	Staying	2 levels of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	200 km/h without frost
Maximum input power	5 kW cw (option 10kW)	Temperature range	-40° to +70°C
Connector	EIA 7/8'' (option EIA 1.5/8'')		

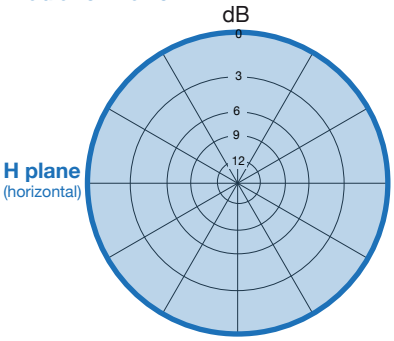
Radiation Pattern

E plane (vertical)



Radiation Pattern

H plane (horizontal)



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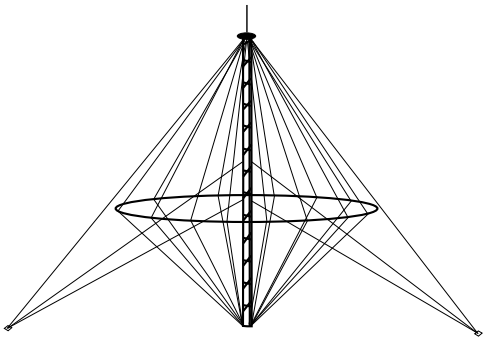
P/N	MODEL
99-0206	ABC HF 4-15 standard version

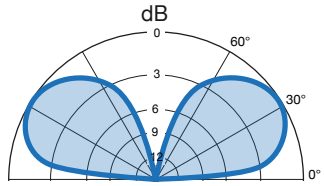
ABC HF 6 - 28



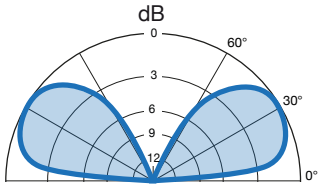
Frequency range	6 to 28 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 12.5 m
VSWR in the band	< 2.5	- Standard grounding	Ø 38 m (24 radials)
Maximum gain		- High density grounding	Ø 60 m (36 radials)
- Standard artificial grounding	4 - 5 dBi	Mast height	7 m
- High density artificial grounding	5 – 6 dBi	Staying	2 levels of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	200 km/h without frost
Maximum input power	5 kW cw (option 10kW)	Temperature range	-40° to +70°C
Connector	7-16f (option EIA 7/8")		

Radiation Pattern

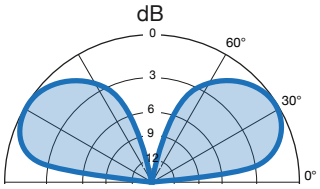
E plane (vertical)



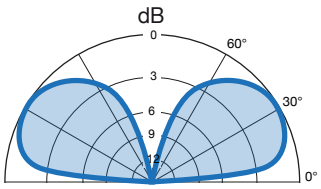
Frequency: 6 MHz



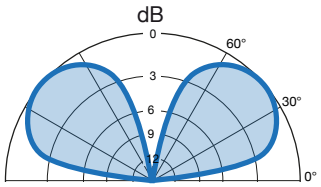
Frequency: 8 MHz



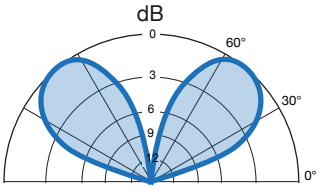
Frequency: 12 MHz



Frequency: 20 MHz



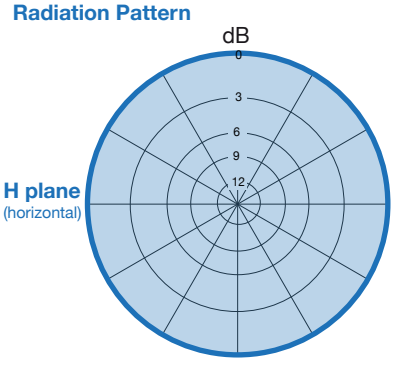
Frequency: 25 MHz



Frequency: 30 MHz

Radiation Pattern

H plane (horizontal)



Frequency 6 to 28 MHz

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P/N	MODEL
99-0044	ABC HF 6-28 standard version

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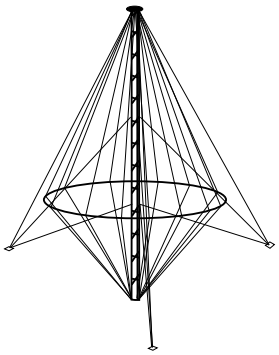
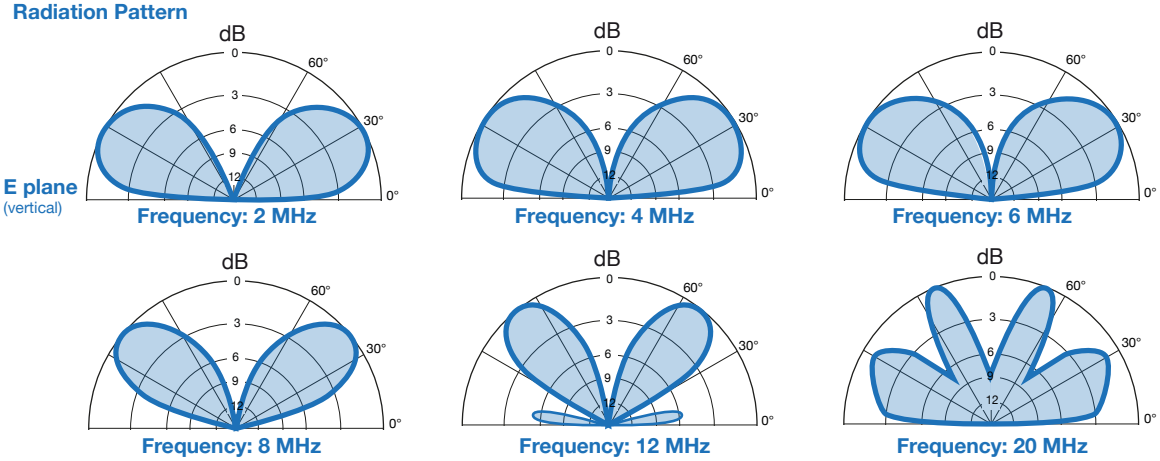
ABCI HF 2 - 30



Frequency range	2 to 30 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 39 m
VSWR in the band	< 2.0	- Standard grounding	Ø 90 m (32 radials)
Maximum gain		- High density grounding	Ø 120 m (60 radials)
- Standard artificial grounding	3 - 4 dBi	Mast height	33 m
- High density artificial grounding	5 – 6 dBi	Staying	3 levels of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	200 km/h without frost
Maximum input power	5 kW cw (option 10 kW)	Temperature range	-40° to +70°C
Connector	EIA 7/8'' (option EIA 1.5/8'')		

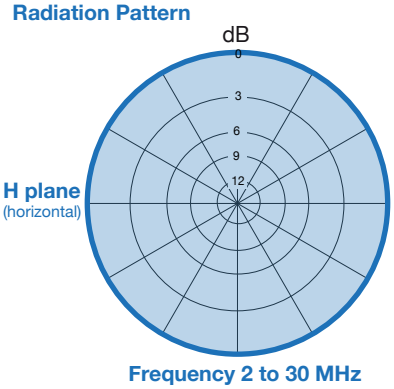
Radiation Pattern

E plane (vertical)



Radiation Pattern

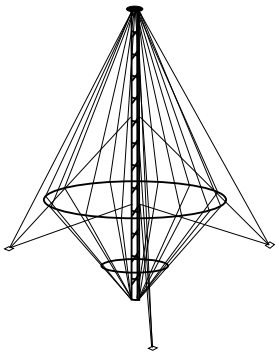
H plane (horizontal)



Return to Search by Part Number

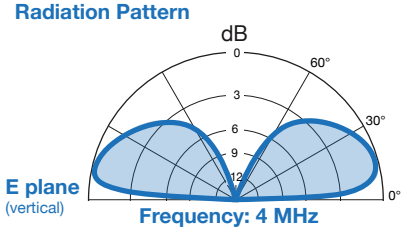
P/N	MODEL
99-0092	ABCI HF 2-30 standard version

ABCI HF 4 - 11

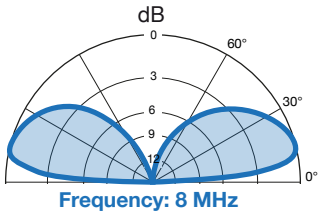


Frequency range	4 to 11 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 20 m
VSWR in the band	< 2	- Standard grounding	Ø 100 m (60 radials)
Maximum gain		- High density grounding	Ø 100 m (120 radials)
- Standard artificial grounding	3 - 4 dBi	Mast height	20 m
- High density artificial grounding	5 – 6 dBi	Staying	4 levels of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	200 km/h without frost
Maximum input power	5 kW cw (option 10 kW)	Temperature range	-40° to +70°C
Connector	EIA 7/8'' (option EIA 1.5/8'')		

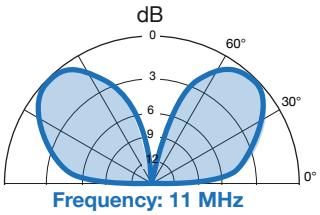
Radiation Pattern



Frequency: 4 MHz

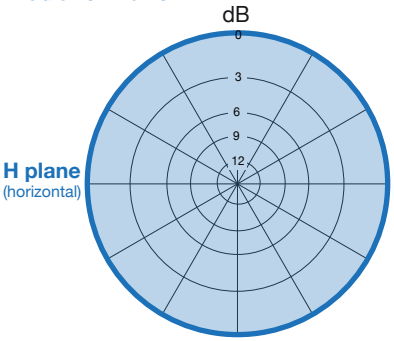


Frequency: 8 MHz



Frequency: 11 MHz

Radiation Pattern



Frequency 4 to 11 MHz

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P/N	MODEL
99-0079	ABCI HF 4-11 standard version

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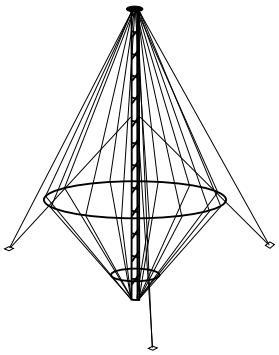
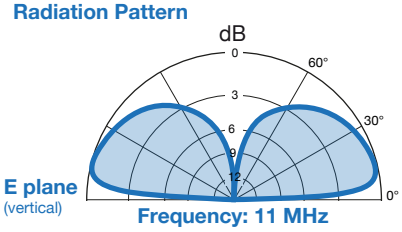
ABCI HF 11 - 28

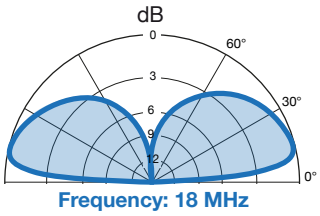


Frequency range	11 to 28 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 7 m
VSWR in the band	< 2.0	- Standard grounding	Ø 40 m (60 radials)
Maximum gain		- High density grounding	Ø 40 m (60 radials)
- Standard artificial grounding	3 - 4 dBi	Mast height	33 m
- High density artificial grounding	5 – 6 dBi	Staying	2 levels of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	200 km/h without frost
Maximum input power	5 kW cw (option 10 kW)	Temperature range	-40° to +70°C
Connector	EIA 7/8'' (option EIA 1.5/8'')		

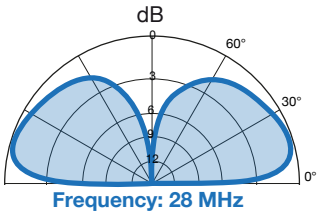
Radiation Pattern



Frequency: 11 MHz

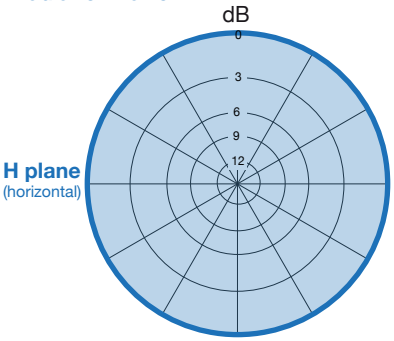


Frequency: 18 MHz



Frequency: 28 MHz

Radiation Pattern

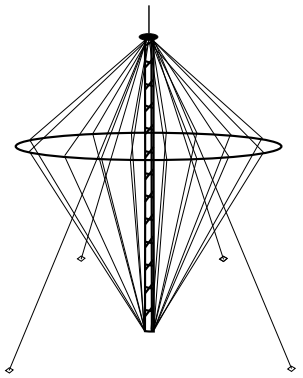


Frequency 11 to 28 MHz

Return to Search by Part Number

P/N	MODEL
99-0080	ABCI HF 11-28 standard version

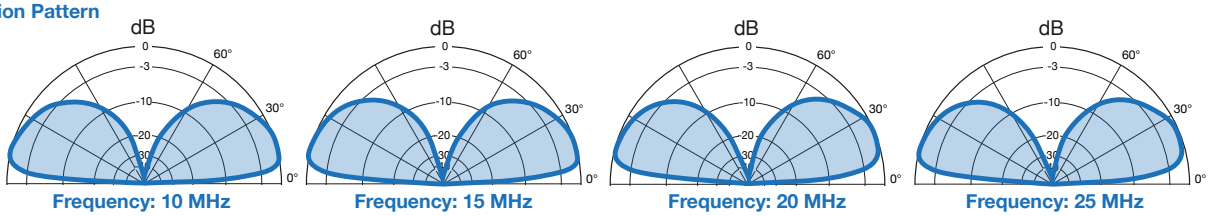
AHF MC 10 - 25



Frequency range	10 to 30 MHz	Dimensions on ground	
Impedance	50 Ω	- Staying	Ø 8 m
VSWR in the band	< 2	- Standard grounding	Ø 30 m (60 radials)
Maximum gain		Mast height	6 m
- Standard artificial grounding	3 - 5 dBi	Staying	1 level of 3 parafil stays
Polarization	Vertical	Radiating array material	Stainless steel cables
Radiation pattern	see diagrams	Windspeed resistance	160 km/h without frost
Maximum input power	5 kW cw	Temperature range	-40° to +70°C
Connector	7-16 f		

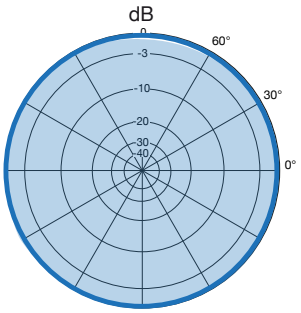
Radiation Pattern

E plane
(vertical)



Frequency: 10 MHz | **Frequency: 15 MHz** | **Frequency: 20 MHz** | **Frequency: 25 MHz**

H plane
(horizontal)



Frequency: 10 to 25 MHz

Return to Search by Part Number

P/N	MODEL
99-0053	AHF MC 10-25 standard version

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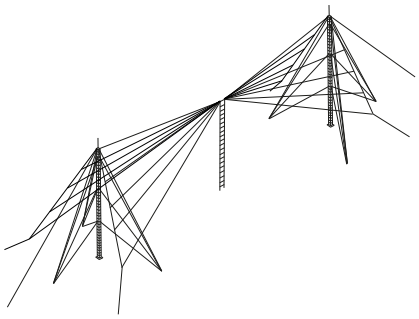
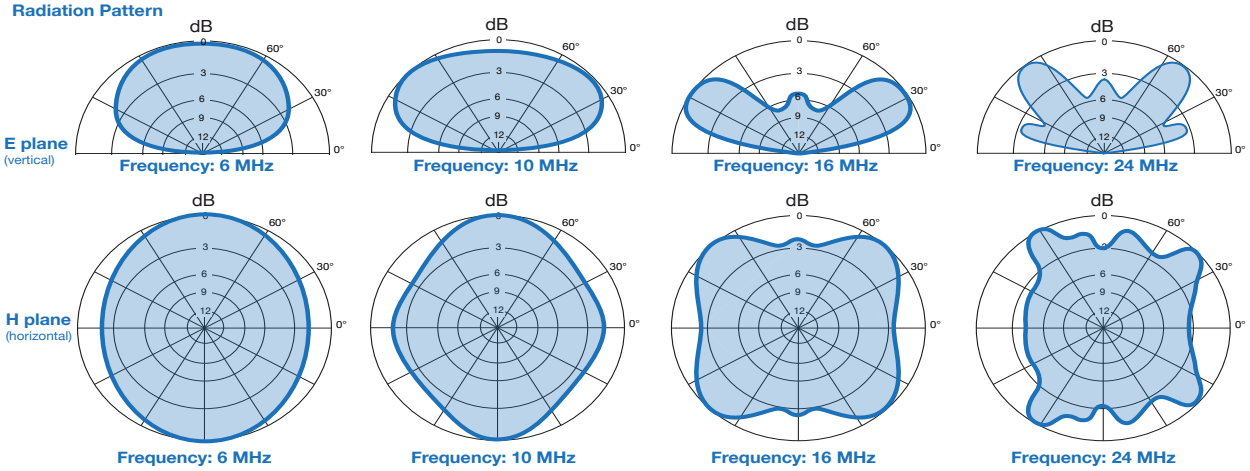
AHF BHP 3 - 30



Frequency range	3 to 30 MHz	Dimensions on the ground	75 x 35 m
Impedance	50 Ω	Staying	Ø 20 m
VSWR in the band	< 2.5	Mast height	15 m
Gain	6 to 8 dBi	Mast spacing	45 m
Polarization	Horizontal	Staying	3 levels of 3 parafil stays
Radiation pattern	see diagrams	Radiating array material	Stainless steel cables
Maximum input power	400 W cw (option 10kW)	Windspeed resistance	160 km/h without frost
Connector	Nf (option EIA 1"5/8)	Temperature range	-40° to +70°C

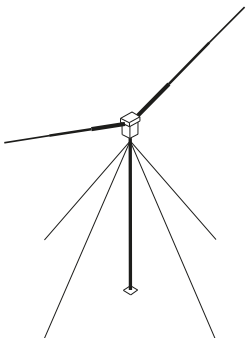
Radiation Pattern



Return to Search by Part Number

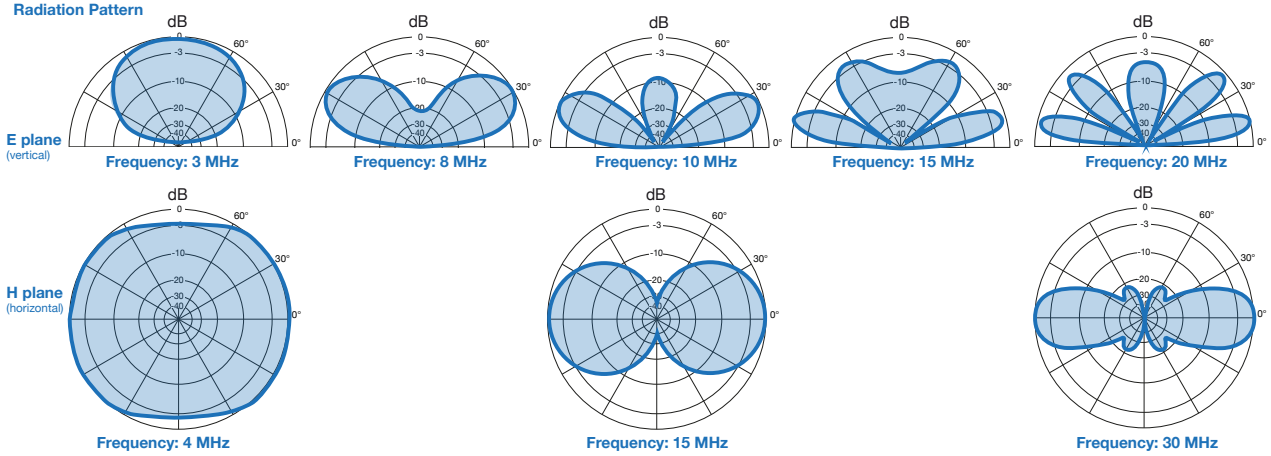
P/N	MODEL
99-0168	AHF BHP 3-30 T standard version

ADH / SU25 2 - 30



Frequency range	2 - 30 or 3 - 30 MHz	Mast height	6 m
Impedance	50 Ω	Staying	Ø 8 m
VSWR in the band	< 1.5 with tuning box	Staying	1 level of 4 parafil stays
Isotopic gain	0 dBi (F = 2 MHz)	Deployement time (3 operators)	2 hours
	2 to 7 dBi (F > 3 MHz)	Windspeed resistance	160 km/h without frost
Polarization	Horizontal	Temperature range	-30° to +70°C
Radiation pattern	see diagrams	Color	Grey RAL 7038
Maximum input power	150 W cw (option 1 kW)		
Switching time	< 10 ms		
Connector	N f		

Radiation Pattern



Return to Search by Part Number

P/N	MODEL	Frequency range (MHz)
99-0169	ADH / SU25 3-30 standard version	3 - 30
99-0170	ADH / SU25 2-30 standard version	2 - 30

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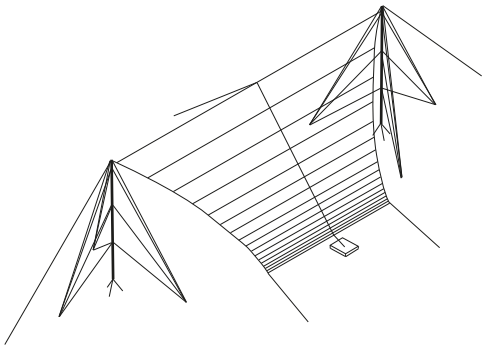
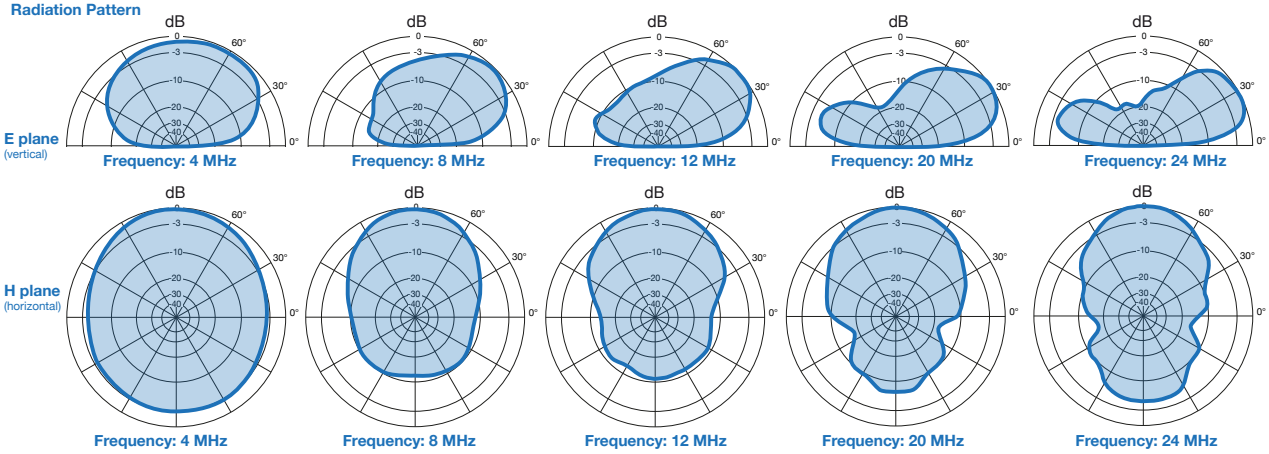
AHLX 2.8 - 30T



Frequency range	2.8 to 30 MHz	Dimensions on ground	
Impedance	50 Ω	Trapezium (LB x SB x H)	77 x 25 x 41 m
VSWR in the band	< 2.8	Staying	Ø 10 m
Maximum gain	6 - 8.5 dBi	Mast height	21 m
Polarization	Horizontal	Staying	4 levels of 3 stays
Radiation pattern	see diagrams	Radiating array material	Stainless steel cables
Maximum input power	10 kW cw (option 1 kW)	Deployement time (6 operators)	2 hours
Connector	EIA 1.5/8'' (option N f)	Windspeed resistance	120 km/h without frost
		Temperature range	-40° to +70°C
		Color	Army green (IR NATO 24x5)

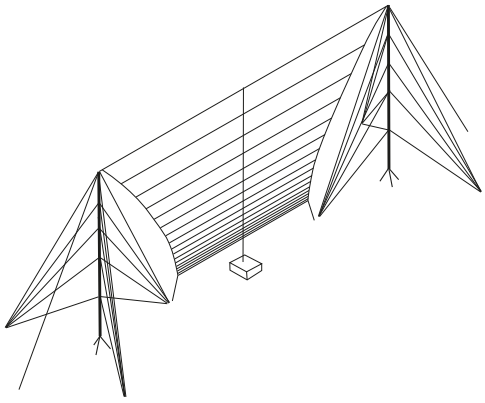
Radiation Pattern



Return to Search by Part Number

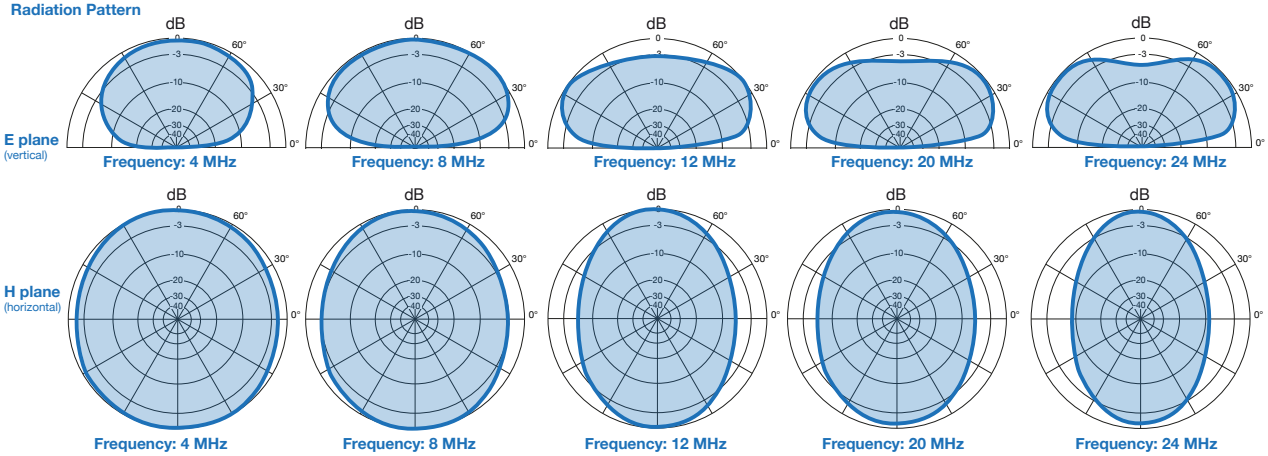
P/N	MODEL
99-0143	AHLX 2.8-30T 10kW tactical version
99-0145	AHLX 2.8-30T 1kW tactical version

AHLZ 2.8 - 30T



Frequency range	2.8 to 30 MHz	Dimensions on ground	78 x 23 m
Impedance	50 Ω	Standard grounding	Ø 30 m (24 radials)
VSWR in the band	< 2.6	Staying	Ø 12 m
Maximum gain	6 - 8.5 dBi	Mast height	26 m
Polarization	Horizontal	Staying	5 levels of 3 stays
Radiation pattern	see diagrams	Radiating array material	Stainless steel cables
Maximum input power	10 kW cw (option 1 kW)	Deployement time (6 operators)	2 hours
Connector	EIA 1.5/8'' (option N f)	Windspeed resistance	120 km/h without frost
		Temperature range	-40° to +70°C
		Color	Army green (IR NATO 24x5)

Radiation Pattern



Return to Search by Part Number

P/N	MODEL
99-0144	AHLZ 2.8-30T 10kW tactical version
99-0146	AHLZ 2.8-30T 1kW tactical version

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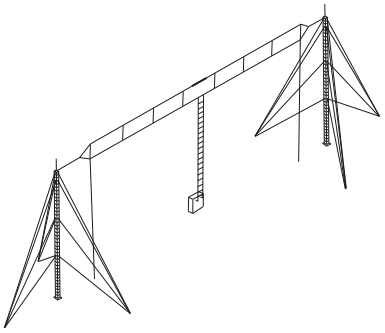
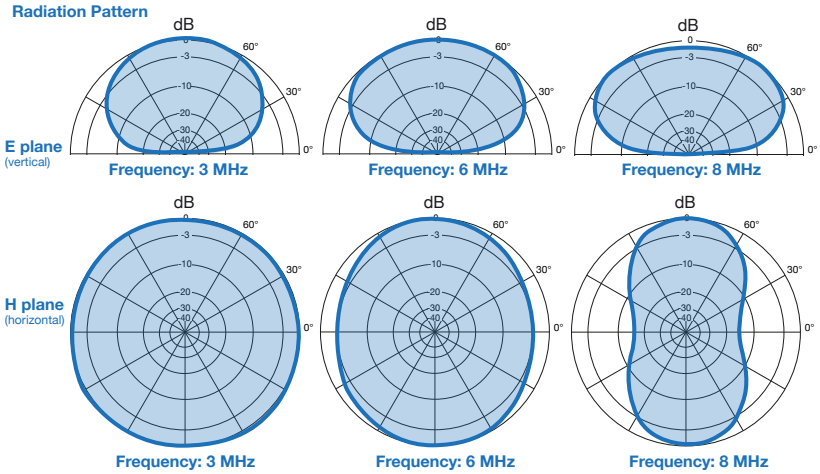
ADA 2 - 10 - 12m



Frequency range	2 to 10 MHz	Dimensions on ground	58 x 13 m
Impedance	50 Ω	Staying	Ø 12 m
VSWR in the band	< 3	Height	12 m
Maximum gain		Staying	3 levels of 3 parafil stays
- at 2 MHz	-4 dBi	Radiating array material	Stainless steel cables
- at 4 MHz	+4 dBi	Windspeed resistance	160 km/h without frost
- at 10 MHz	+3 dBi	Temperature range	-40° to +70°C
Polarization	Horizontal	Color	ICAO Red / White
Radiation pattern	See diagrams		
Maximum input power	1 kW cw		
Connector	N f		

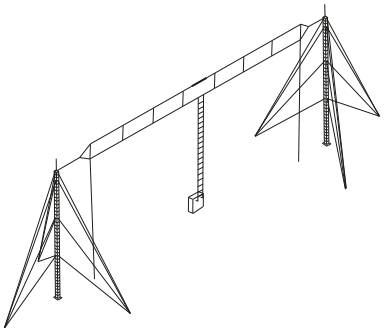


Return to Search by Part Number

P/N	Model
99-0167	ADA 2-10-12m standard version

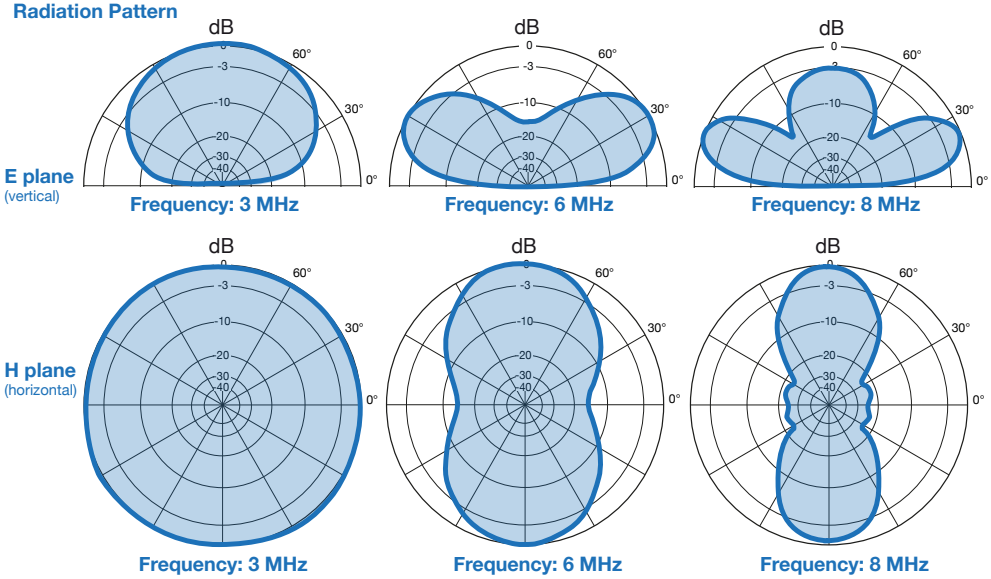
Other models available on request for frequency range 3 - 15 MHz and 4 - 20 MHz

ADA 2 - 10 - 24m



Frequency range	2 to 10 MHz	Dimensions on ground	72 x 24 m
Impedance	50 Ω	Staying	Ø 24 m
VSWR in the band	< 3	Height	24 m
Maximum gain		Staying	6 levels of 3 parafil stays
- at 2 MHz	-4 dBi	Radiating array material	Stainless steel cables
- at 4 MHz	+4 dBi	Windspeed resistance	160 km/h without frost
- at 10 MHz	+3 dBi	Temperature range	-40° to +70°C
Polarization	Horizontal	Color	ICAO Red / White
Radiation pattern	See diagrams		
Maximum input power	1 kW cw		
Connector	N f		

Radiation Pattern



Return to Search by Part Number

P/N	Model
99-0207	ADA 2 - 10 - 24 m standard version

Other models available on request for frequency range 3 - 15 MHz and 4 - 20 MHz

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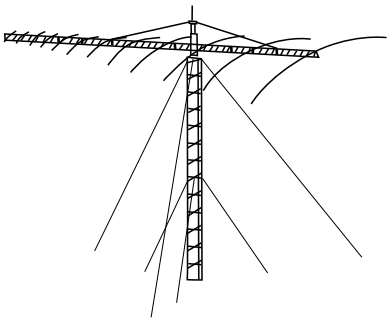
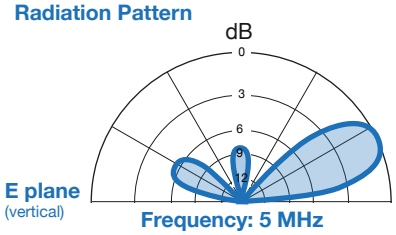
AHLO 4 - 30



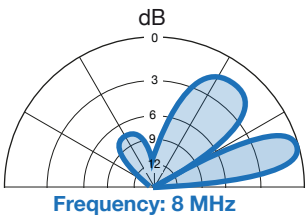
Frequency range		Ground staying	Ø 54 m
- Tx	4 to 30 MHz	Dipole span	36 m
- Rx	2 to 30 MHz	Boom lenght	28 m
Impedance	50 Ω	Number of dipole	14
VSWR in the band	< 2.0	Boom weight	1750 kg
Maximum gain	12 dBi	Rotation speed	360° in 2 minutes
Polarization	Horizontal	Staying	3 levels of 3 stays
Radiation pattern	see diagrams	Material radiating array/pylon	AGS/Hot galvanized steel
Maximum input power	10 kW cw	Windspeed resistance	200 km/h without frost
Connector	EIA 1.5/8"	Temperature range	-40° to +70°C
Mast height	34.50 m		

Radiation Pattern

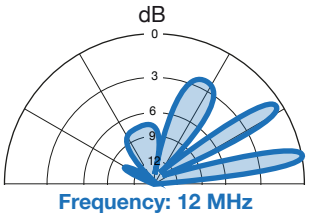


E plane
(vertical)

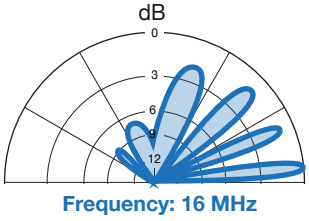
Frequency: 5 MHz



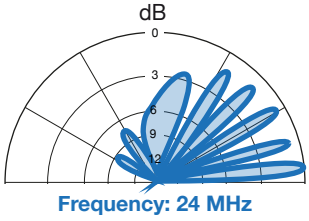
Frequency: 8 MHz



Frequency: 12 MHz



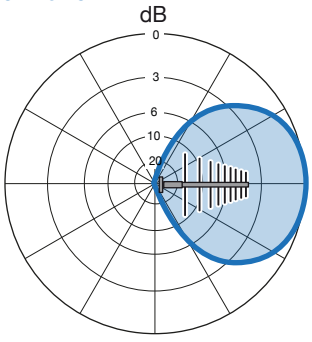
Frequency: 16 MHz



Frequency: 24 MHz

Remote antenna rotation UCRA in option.

Radiation Pattern



H plane
(horizontal)

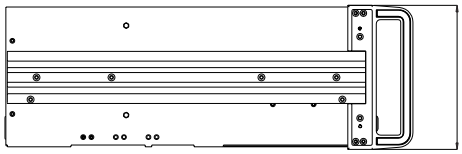
Frequency 4 to 30 MHz

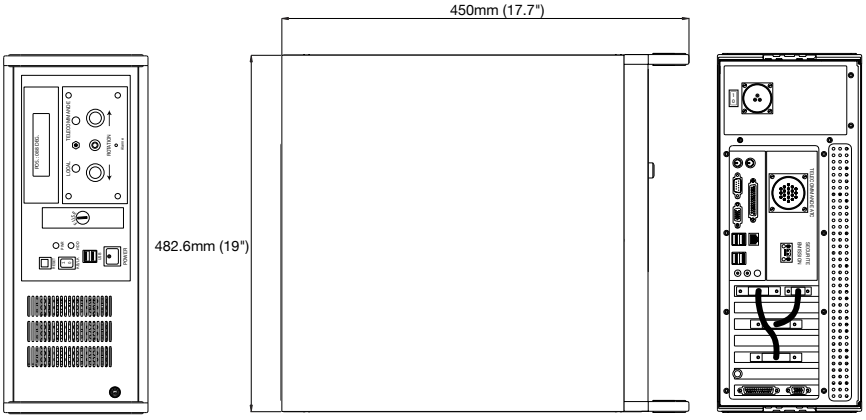
Return to Search by Part Number

P/N	Model	Motor	Boom	Identification
99-0126	AHLO 4-30	Standard	Standard	AN-584A
99-0215	AHLO 4-30D	EM Protected	Standard	
99-0045	AOLOG HF 4-30	EM Protected	Reinforced	
99-0011C	UCRA Antenna rotation control unit			

UCRA Antenna Rotation Control Unit

Construction	Black painted steel
Dimension (WxDxH)	19” (482.6mm) x 17.7” (450mm) x 7” (177mm, 4U)
Operating temperature	0° to +55°C
Main power supply	Full range AC 100/240 V, 50/60 Hz (350W)
Antenna rotation modes	- Local by using front panel controls - Remote by using serial RS232 or network IPV4
Operating system	Microsoft Windows 10 Iot Entreprise LTSC
Remote control software	RS232 or IPV4 versions
Front panel indicators	2 lines, 16 characters backlighted LCD for angle and alarms display.
Rear panel interfaces	- DB25 male connector for serial RS232 - 2 pin COMBICON connector for normally closed RF transmitter safety loop - SLEM319L (19 pins) connector for antenna power control system - SLEM23C (3 pins) connector for main power supply.
Accessories supplied	17” flat LCD display, USB keyboard, optical mouse and external DVD driver





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P/N	MODEL	VERSION
99-0011C	UCRA Antenna Rotation Control Unit	Windows 10 Iot Entreprise

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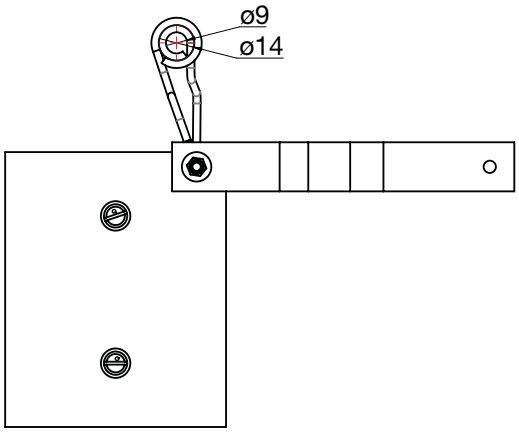
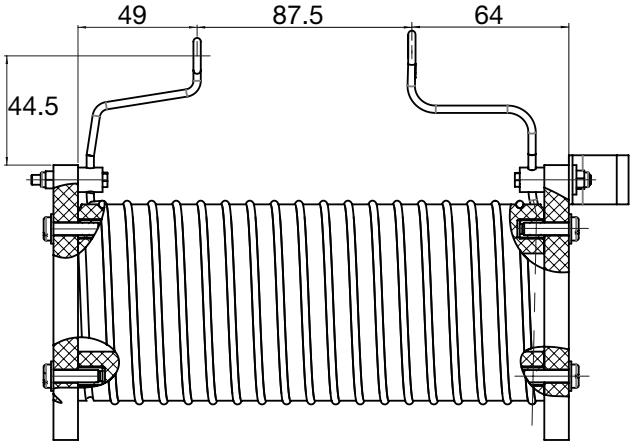
Chock Coil Inductor for AHLO / AOLOG HF Antenna

Inductance	
Material	Pom C + Al
Weight	1.4 kg





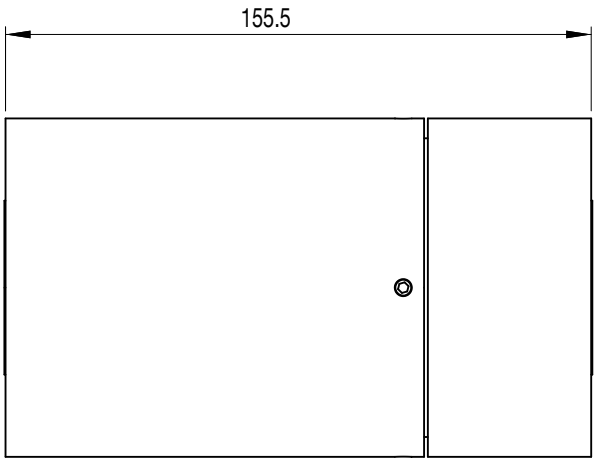
Dimensions in mm

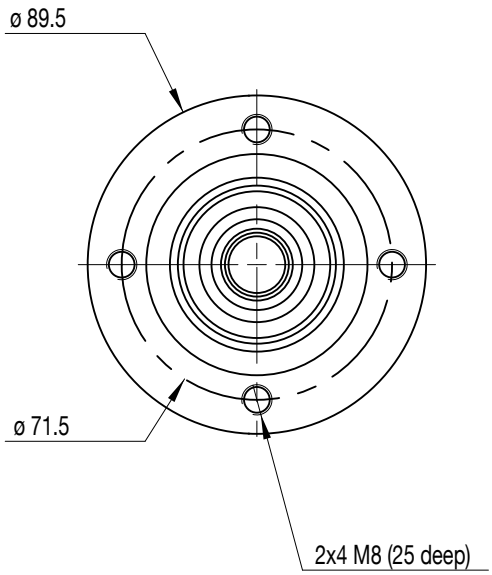
Return to Search by Part Number

P/N	Model
98-1010	Chock Coil Inductance for AHLO / AOLOG HF Antenna

Rotary Joint EIA 1.5/8”

Impedance	50 Ω
Frequency	DC-30 MHz
Max power	10 kW
VSWR	< 1.03
Insertion loss	< 0.1 dB
Interface	EIA 1.5/8”
Material	Al
Weight	2.5 kg
Accessories included	2 splices EIA 1.5/8”
	8 screws HM8x30 + washer
	2 O-ring





Dimensions in mm

Return to Search by Part Number

P/N	Model
98-1009	Rotary joint EIA 1.5/8”

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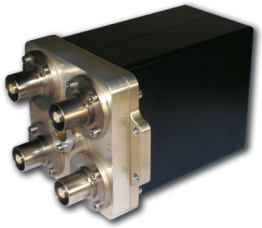
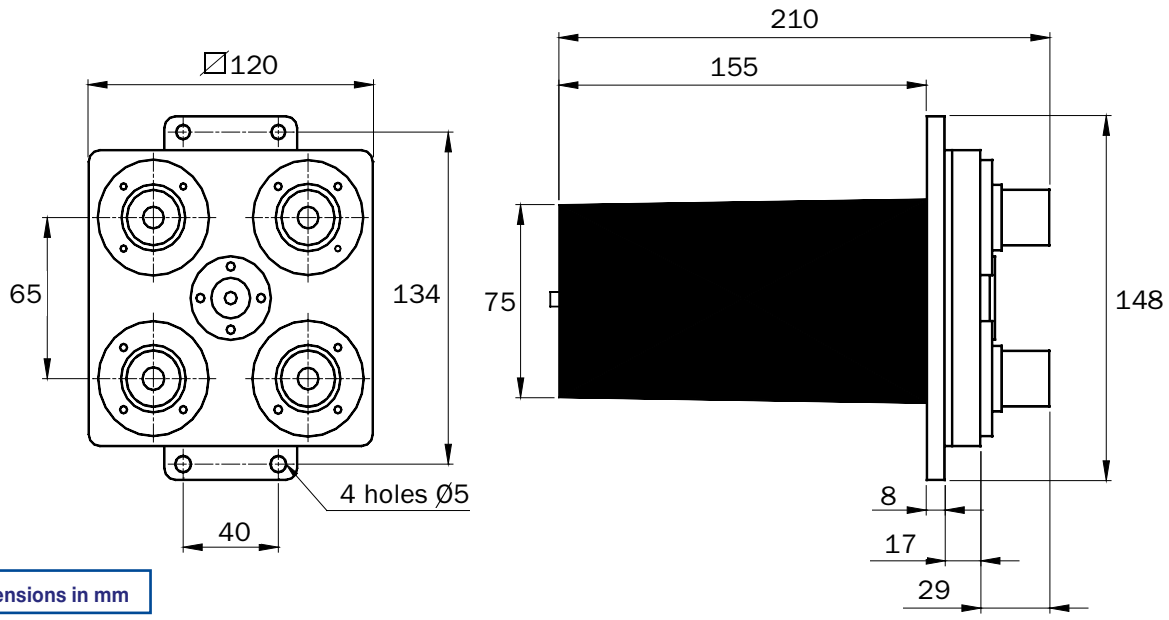
10 kW DPDT Coaxial Switch



Standard
NF C 96-317

RoHS CERTIFIED

Impedance	50 Ω
Frequency	2 - 30 MHz
Isolation	≥ 80 dB
Insertion loss	≤ 0.05 dB
Actuating voltage	25 V DC ± 15%
Actuating impulse	1.3 A - 100 ms
Operate time	≤ 100 ms
Life ratings	≥ 100 000 switches
Case material	Al
Coaxial connectors	Rigid Line 7/8''
Weight	3.3 kg



Dimensions in mm

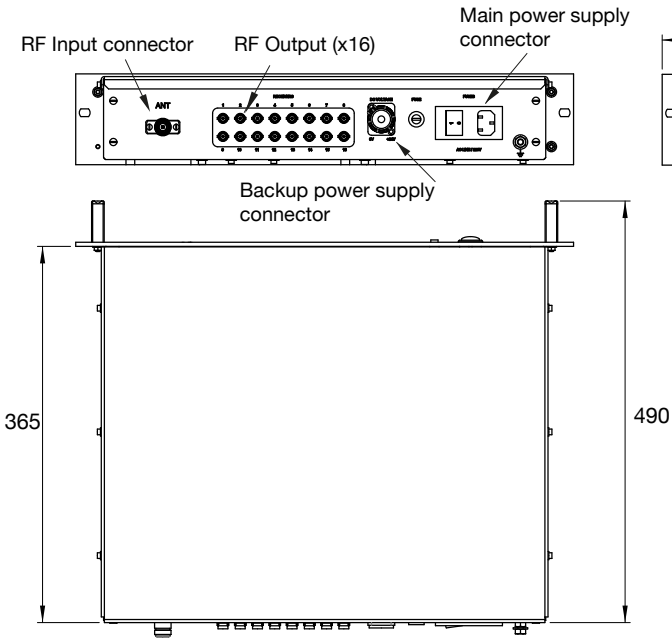
Return to Search by Part Number

P/N	Model
18-0006	10 kW DPDT Coaxial switch

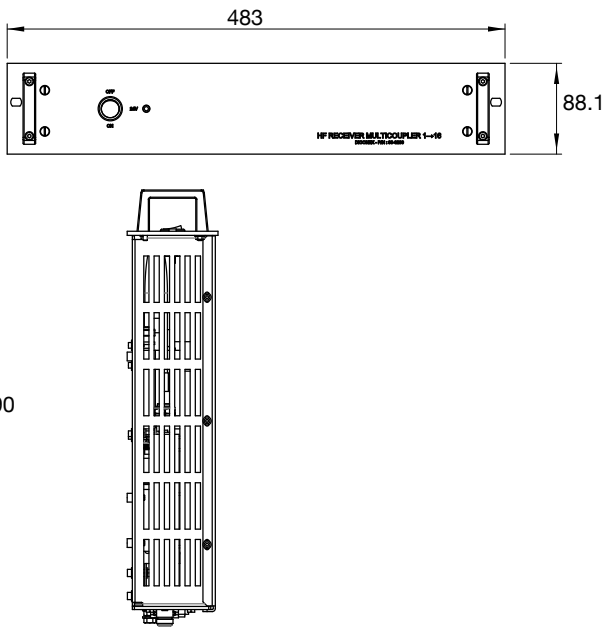
16 Ways HF Receiver Multicoupler

Frequency range	2 - 30 MHz	Dimensions (w x h)	19'' rack - 4U
Impedance	50 Ω	Deepth	365 mm
RF Input ports	1	Materials	AGS - galvanised steel
RF Output ports	16	Temperature range	-10° to +65°C
Maximal input power	+10 dBm	Weight	7.5 kg
Average gain	1.5 dB	RF Input connector	1 x N f
Amplitude balance	<0.3 dB	RF Output connectors	16 x BNC f
Phase balance	<1°	Main power supply connector	C14 IEC
VSWR (Input/Output)	< 2 / <1.2	Back up power supply connector	®Powercon NAC3MPA-1
Isolation	> 25 dB		
Third order intercept	14 dBm		
Noise figure	10 dB		
Main power supply	230 V / 50 Hz - 60 Hz		
Backup power supply	9 Vdc to 24 Vdc		

Rear pannel



Front pannel



Return to Search by Part Number

P/N	MODEL
99-0200	16 ways HF receiver multicoupler

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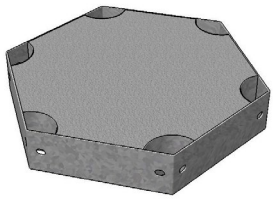
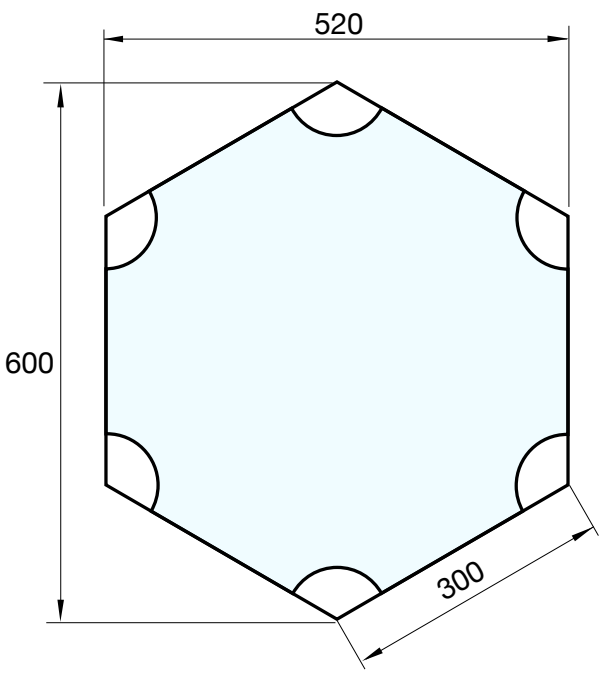
Ballast concrete slab for antennas

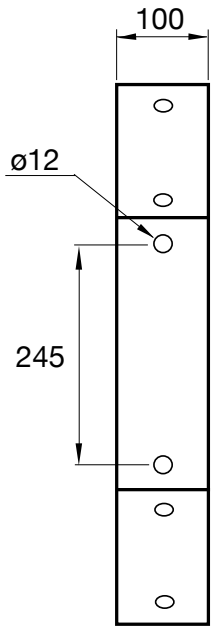


RoHS CERTIFIED

HF Antennas

Material:	concrete + Galvanized steel
Weight:	50 kg





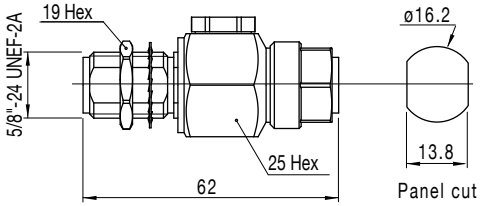
Dimensions in mm

Return to Search by Part Number

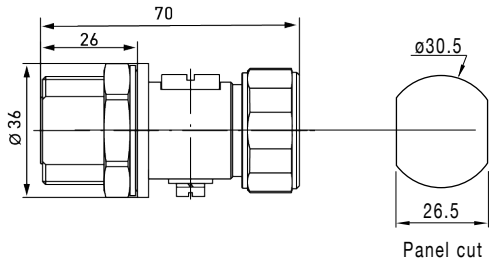
P/N	Model
98-0220	ballast concrete slab 50kg

Coaxial lightning protections

Impedance	50 Ω
Frequency range	DC to 1 GHz
VSWR typical	< 1.20
Maximum power	
– N	1 kW at 30 MHz
– 7-16	5 kW at 30 MHz
– 7/8''	10 kW at 30 MHz
– 1.5/8''	20 kW at 30 MHz



30-0108



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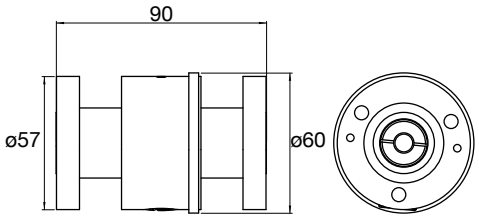
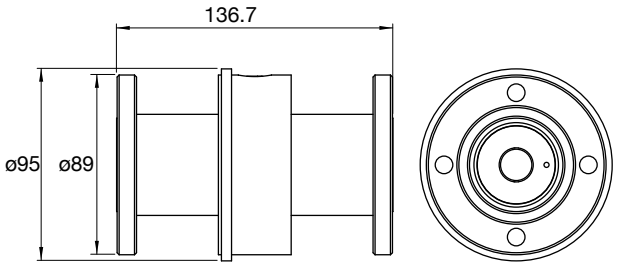


30-0077



30-0078

Dimensions in mm

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P/N	Model	Weight (kg)
30-0108	N m-f bulkead	0.3
30-0114	7-16 m-f bulkead	0.5
30-0077	EIA 7/8″	0.8
30-0077 T	EIA 7/8″ bulkead	0.8
30-0078	EIA 1.5/8″	1.5
30-0078 T	EIA 1.5/8″ bulkead	1.5

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