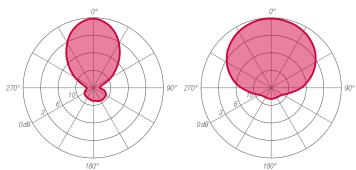




ANTENNA FEATURES

- Yagi 3 elements antenna.
- Vertical or horizontal polarization.
- Broadband 87.5÷108 MHz.
- Directional radiation pattern.
- Demountable.
- Pressurizable.
- Aluminium.

RADIATION PATTERNS (Mid Band)

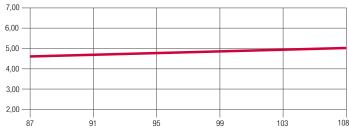


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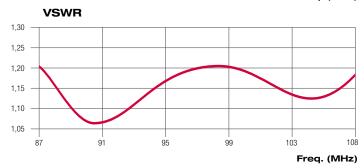
H - Plane

ı	ELECTRICAL DATA	
	WORKING BAND:	87.5 - 108 MHz
	BANDWIDTH:	VHF band FM
	GAIN:	5 dBd (7.15 dBi)
	VSWR:	≤ 1.23:1 (-19.7 dB)
	POLARIZATION:	Vertical (or horizontal)
	IMPEDANCE:	50 Ohm unbalanced
9	HALF POWER BEAMWIDTH:	E-Plane - 66°
		H-Plane - 128°
	LIGHTNING PROTECTION:	All metal parts DC grounded
		including inner conductors
	AVAILABLE VERSION AND CODE:	ASR0302315 - EIA 7/8" - max 5000W rms
		ASR0302316 - DIN 7/16" female - max 3000W rms
		ASR0302317 - N - max 800W rms
		ASR0302315A - EIA 7/8" 90° UP/D0WN - 5000W rms

GAIN (dB)



Freq. (MHz)



MECHANICAL DATA		
MATERIALS:	Aluminum body	
MOUNTING:	Directly on supporting structure	
MOUNTING BRACKETS:	Included for Ø60÷114mm pipe (Ø 2.36" - 4+1/2")	
ICING PROTECTION:	Optional feed point radome (code XRASR)	
TREATMENTS:	Dipoles and antenna body military norms treatement	
	(MIL-C-554)	
	Silver-plated lines and connector	
PRESSURIZATION:	5.0 psi	
ANTENNA DIMENSIONS:	1820x1590x50mm (71.6x62.5x1.96 in)	
ANTENNA WEIGHT:	10 kg (22.04 lb)	
WIND SURFACE:	0.05m² (0.5ft²) front - 0.20m² (2.15 ft²) side	
WIND LOAD	0.05 kN front - 0.16 kN side	
(160 km/h and 30°C)		
SURVIVAL WIND:	180 km/h (111.8 mph)	
PACKING DIMENSIONS:	Box 1760x370x150mm - 15 kg	
	(69.2x14.5x5.9 in - 33.0 lb)	

Specification are subject to change without notice





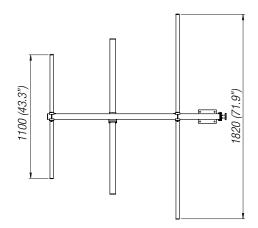
ARRAY FEATURES

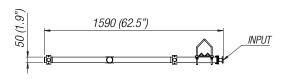
- Directional
- Equal or unequal power distribution system
- Configurable for specific azimut and elevation pattern
- Suitable for multiplexing many channels

FREQUENCY RANGE	87.5 ÷ 108 MHz
IMPEDANCE	50 ohm
CONNECTOR	EIA flange according to system power rating
POWER RATING	The antenna system can accept any power
	according to requirements
VSWR	≤ 1.17 in the operating channels or
	≤ 1.25 throughout the frequency range
	Antenna system VSWR value also depending from the
	supporting structure
POLARIZATION	Vertical (or horizontal upon request)
GAIN	Refer to table
HORIZONTAL PATTERN	Directional
VERTICAL PATTERN	Null fill, beam tilt and special requirements to order
OTHER FEATURES	Antenna components and feed harnesses can be
	optimized for channels of interest.

ARRAY MECHANICAL DATA				
HEIGHT OF ARRAY	Subject to number of bays			
TOTAL NET WEIGHT	Refer to table			
WIND LOAD	Refer to table			
PRESSURIZABLE	No			
MOUNTING HARDWARE	Optional mounting for side mount configuration			

ANTENNA DIMENSIONAL DETAILS





OPTIONS & SERVICES				
PATTERN DESIGN	Custom azimuth and elevation (beam tilt and null fill)			
	patterns can be designed to meet specific			
	protection/coverage requirements			
PATTERN CERTIFICATION	Proof-of-performance factory test and			
	pattern measurements on ALDENA test plan area			
MOUNTING HARDWARE	Turn-key antenna delivering			
	Tower top/side spine			
	Special hardware/brackets			
TRANSMISSION LINE	Transmission line system design and layout			
COMBINERS/FILTERS	Combiners/Filters to suit requirements can be supplied			
CALCULATION SERVICES	Coverage/interferfence simulations			
	EM Near Field control and reduction (Environmental			
	impact studies)			
ON-SITE SERVICES	Site Survey and Inspection			
	Installation/commissioning and supervisioning			
	Drive test & EM Field strength measurements			
	After sales maintenance			
TRAINING	Techical training certification and consultancy			

ARRAY TECHNICAL DATA ANTENNA LOAD(3 6.48 4.45 42 (92.5) 2 4.4 (14.4) 0.38 9.56 74 (163.1) 9.6 (31.4) 0.76 9.04 11.33 13.58 106 (233.6) 14.8 (48.5) 6 1.14 8 12.57 18.07 156 (343.9) 20.0 (65.6) 1.52

212 (437.3)

2.28

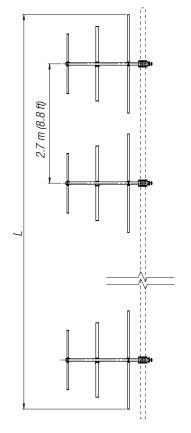
30.5 (100.0) 12 (1) Gain data is relative to half-wave dipole. Values given are nominal and assume standard harness configurations Gain will vary depending in specific feed system, null fill and beam tilt.

(2) Without mounting hardware.

(3) 160 km/h (100 mph) wind and 30°C (86°F) air temperature.

27.16

14.34



Total Antenna Height (L) is subject to change according to requirement. Custom designed antennas meeting special requirements such as specific azimuthal pattern, different gains and custom power input are available upon request.

Specification are subject to change without notice