Product Data Sheet **APXV18-206516H-C-A20**

Optimizer® Dual Polarized Antenna, 1710-2200, 65deg, 17.5-18.1dBi, 1.3m, VET, 0-10deg RET

Product Description

This antenna is an excellent choice for 3G, PCS, GSM1800 and Mobile TV networks where high gain is required. The antenna comes pre-connected with one antenna control unit (ACU).



Features/Benefits

•Variable electrical downtilt – provides enhanced precision in controlling intercell interference. The tilt is infield adjustable 0-10 deg.
•High Suppression of all Upper Sidelobes (Typically <-20dB)
•Includes (2) AISG 2.0 Compatible ACU-A20-N antenna control units.
•Broadband design
•Dual polarization
•Low profile for low visual impact
•Quick and easy to adjust
•High front-to-back ratio

Technical Specifications

Electrical Specifications

Frequency Range, MHz	1710-1880	1850-1990	1900-2200
Horizontal Beamwidth, deg	67	67	65
Vertical Beamwidth, deg	7.3	7	6.5
Electrical Downtilt Range, deg		0-10	
Gain, dBi (dBd)	17.5 (15.4)	17.5 (15.4)	18.1 (16.0)
Upper Sidelobe Suppression, dB		> 18 all (typically > 20)	
Front-To-Back Ratio, dB		Typically 30	
Polarization		Dual pol +/-45°	
VSWR		< 1.5:1, < 1.4:1, < 1.4:1	
Isolation between Ports, dB		> 30	
3rd Order IMP @ 2 x 43 dBm, dBc		≥153	
7th Order IMP @ 2 x 38 dBm, dBc		N/A, N/A, >170	
Impedance, Ohms		50	
Maximum Power Input, W		300	
Lightning Protection		Direct Ground	
Connector Type/Location		(2) 7-16 Long Neck Female/Bottom	

Mechanical Specifications

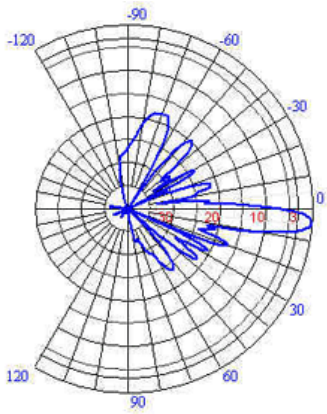
Dimensions - HxWxD, mm (in)	1391 x 175 x 110 (54.8 x 6.9 x 4.3)
Weight w/o Mtg Hardware, kg (lb)	7 (15.4)
Survival/Rated Wind Speed, km/h (mph)	200 (125) / 160 (100)
Applied Wind Load Standard	DIN 1055-4
Wind Load @ Rated Wind, Front, N (lbf)	310 (69.7)
Wind Load @ Rated Wind, Max., N (lbf)	310 (69.7)
Wind Load @ Rated Wind, Side, N (lbf)	120 (27.0)
Wind Load @ Rated Wind, Rear, N (lbf)	210 (47.2)
Operation temperature, °C (°F)	-40 to +60 (-40 to +140)
Radome Material/Color	ASA Plastic/Light Grey RAL7035
Mounting Hardware Material	Diecasted Aluminum and Stainless Steel
Radiating Element Material	Aluminum
Reflector Material	Aluminum
Shipping Weight, kg (lb)	13.1 (28.9)
Packing Dimensions, HxWxD, mm (in)	1469 x 267 x 229 (57.83 x 10.5 x 9)

Ordering Information

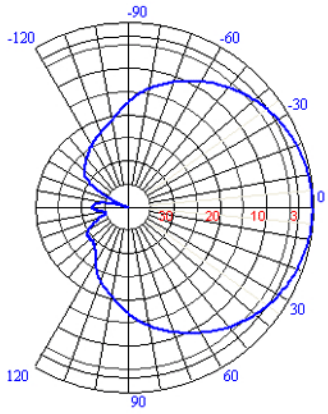
Mounting Hardware	APM40-2
Mounting Pipe Diameter, mm (in)	60-120 (2.36-4.72)
Mounting Hardware Weight, kg (lb)	3.4 (7.5)

All information contained in the present datasheet is subject to confirmation at time of ordering

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Vertical Pattern



Horizontal Pattern

Notes

For additional mounting information please click "External Document Link" below.

External Document Links

APM40 Series Datasheet
APM40 Series Installation Instructions

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