AW3141 Data Sheet

790 - 960MHz Sector Antenna

(Dual Port, 65° Sector, +/-45° Polarisation, Fixed Tilt)

*The parameters in this specification follow the definitions and recommendations per NGMN P-Basta, Release 9.6

RF Specifications

Frequency Range per Input	MHz	790 - 960
Polarisation:	NA	+/-45° Slant Linear
Gain		
Over all Tilts	dBi	13.5
Azimuth Beamwidth	Degree	65
Azimuth Beam Squint	Degree <	3
Elevation Beamwidth	Degree	17
Electrical Downtilt:	Degree	T4^0
Electrical Downtilt Deviation	Degree <	1
Impedance	Ohms	50
VSWR	NA	1.43
Return Loss:	dB >	15
Isolation	dB >	28
Passive Intermodulation	dBc <	-150
Front to Back Ratio: Total Power +/-30^0	dB >	25
Upper Sidelobe Suppression, Peak to 20^0	dB >	18
Cross Polar Discrimination at Sector	dB >	16
Maximum Effective Power Per Port	W	300

Mechanical Specifications

Dimensions (LxWxD) mm (in)	mm (in)	1220 (48) x 280 (11) x 120 (4.7)
Packing Size (LxWxD)	mm (in)	1293(50.9) x 340(13.3) x 178(7)
Net Weight (antenna)	kg (lb)	13 (28.6)
Net Weight (mount)	kg (lb)	1.57 (3.4)
Shipping Weight	kg (lb)	14.5 (31.8)
Connector Quantity	NA	2 x 7/16 Female
Connector Position	NA	Bottom
Windload calculation	km/h	F=1/2*ρ*(Cdp*λ)*v2*A
Windload Frontal	N	650
Windload Lateral	N	280
Survival Wind Speed	km/h	200 (125)
Radome Material	NA	UV-Stabilised PVC
Radome Colour	RAL	7035
Product Compliance Environmental	NA	RoHS
Lightening Protection	NA	DC Grounded
Cold Temperature Survival	Celsius	-40
Hot Temperature Survival	Celsius	+ 70

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* Alpha Wireless are always improving products; specification subject to change without notice.