

1. Antenna Spec Sheet

Frequency Range	1695-2400	3550-3700	5150-5925
Gain (dBi)	10	5.5	5.5
HPBW (°)	160		360
Electrical Downtilt(°)	1695~2400 MHz		0-20
	3550-3700 MHz		0
	5150-5925 MHz		0

Model No.	OYZ9X180V10			
	1695~2360			
Frequency Range (MHz)	1695-1850	1850-1910	1910-2180	2300-2360
EDT 0°	10	10	10.5	10.5
EDT 5°	10	10	10.5	10.5
Gain EDT 10° (dBi)	10	10	10.5	10.5
EDT 15°	9.5	9.5	10	10
EDT 20°	9	9	9.5	9.5
Horizontal Pattern:				
Azimuth Beam width (°)	160	160	160	160
Gain OMNI Deviation (dB)	-	-	-	-

Vertical Pattern:				
Elevation Beam width (°)	20	18	17	16
EDT 0°	13	13	13	13
EDT 5°	13	13	13	13
First Upper Side Lobe Suppression EDT 10° (dB)	12	12	12	12
EDT 15°	11	11	11	11
EDT 20°	10	10	10	10

In-Band Cross Polar Ports Isolation (dB)	20	20	20	20
Inter-Band Ports Isolation (dB)	25	25	25	25
VSWR	< 1.5 : 1			
Polarization	± 45	± 45	± 45	± 45
Intermodulation IM3 (dBc)			-153	
Impedance (Ω)			50	
Max. Effective Power per Port (Watts)			100	
Connector Type & Quantity	4.3-10 x 4			

Values based on NGMN-P-BASTA requirements

	3550-3700	5150-5925
Frequency Range (MHz)	3550-3700	5150-5925
Gain (dBi)	5.5	5.5
Horizontal Pattern:		
Azimuth Beam width (°)	360	360
Gain OMNI Deviation (dB)	6	7

Vertical Pattern:		
Elevation Beam width (°)	30	22
First Upper Side Lobe Suppression (dB)	8	10
Fixed Down Tilt (Factory setting) (°)	0	0

In-Band Cross Polar Ports Isolation (dB)	20	20
Inter-Band Ports Isolation (dB)	25	25
VSWR	< 1.5 : 1	< 1.5 : 1(Typ.) 1.7 : 1(Max.)
Polarization	± 45	± 45
Impedance (Ω)		50
Max. Effective Power per Port (Watts)		100
Connector Type & Quantity	4.3-10 x 4	4.3-10 x 2

Mechanical Specifications

Connector Position		Bottom
Antenna Dimension (H x D) (inch / m)		23.6 x Ø 7.9 / 600 X Ø 200
Weight (without Mounting Kit) (lb / kg)		12.0 / 5.5
Wind Load (@100 mph) (N)		142
Max. Wind Speed (Survival Wind Speed) (mph)		150
Lightning Protection		Direct Ground
Radome (Color)		Gray
Product Environmental compliance		ROHS compliant

2. Antenna Pictures



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