Pseudo Omni Canister Fixed Antenna

(1x) 698-894 MHz
(2x) 1695-2400 MHz
(2x) 3550-4000 MHz
(1x) 5150-5925 MHz

12-Port

DOYZ9X360F12



Features & Applications

· Small Cell Pseudo Omni Canister Fixed Antenna

· 2-port x 698-894 MHz, 4-port x 1695-2400 MHz, 4-port x 3550-4000 MHz, 2-port x 5150-5925 MHz

· HPBW : 360 °

· Gain : 4 dBi, 8 dBi, 6.7 dBi, 5 dBi

*This antenna is UNII-1 Compliance @ 1W input power. Guidance for compliance of U-NII devices under Part 15, Subpart E of the FCC rules.

ELECTRICAL SPECIFICATIONS			
Port Information	-	R1	
Frequency Range	(MHz)	**698-806**	**806-894**
Gain	(dBi)	4	4.5
Horizontal Pattern			
Azimuth Beam width	(°)	360	
Gain OMNI Deviation	(dB)	2	
Vertical Pattern			
Elevation Beam width	(°)	62	41
First Upper Side Lobe Suppression	(dB)	10	

GENERAL SPECIFICATIONS		
In-Band Cross Polar Port Isolation	(dB)	>20
Inter-Band Port Isolation	(dB)	>25
VSWR	-	1.5 : 1
Polarization	-	±45°
Intermodulation IM3	(dBc)	-153(3rd Order, 2x20W)
Impedance	(Ω)	50
Max. Effective Power per Port	(Watts)	100

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12-Port

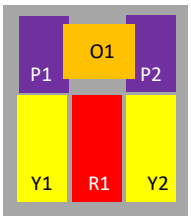
ELECTRICAL SPECIFICATIONS

Port Information	-	Y1-Y2				P1-P2	O1
Frequency Range	(MHz)	**1695-1850**	**1850-1910**	**1910-2180**	**2300-2360**	**3550-4000**	**5150-5925**
Gain	(dBi)	7	7.2	8.2	8.3	6.7	5
Horizontal Pattern							
Azimuth Beam width	(°)	360					
Gain OMNI Deviation	(dB)	4.5	5	5	6	7	7
Vertical Pattern							
Elevation Beam width	(°)	21	20	18	17	26	21
First Upper Side Lobe Suppression	(dB)	12	10	10	10	8	8

GENERAL SPECIFICATIONS

In-Band Cross Polar Port Isolation	(dB)	>20					
Inter-Band Port Isolation	(dB)	>25					
VSWR	-	1.5 : 1				1.5 : 1	1.5 : 1(Typ.) 1.7 : 1(Max)
Polarization	-	±45°					
Intermodulation IM3	(dBc)	-153(3rd Order, 2x20W)				-	-
Impedance	(Ω)	50					
Max. Effective Power per Port	(Watts)	100				100	1

Array Information



Up

Down

Array	Frequency(MHz)	Connectors
R1	698-894	1-2
Y1-Y2	1695-2400	3-6
P1-P2	3550-4000	7-10
O1	5150-5925	11-12

The parameters Based on the NGMN P-Basta definition and recommendation.

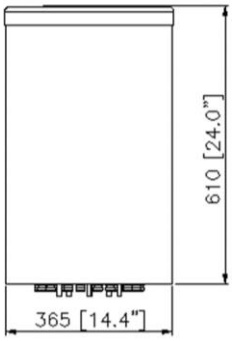
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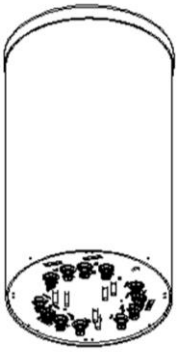
Psuedo Omni Canister Fixed Antenna

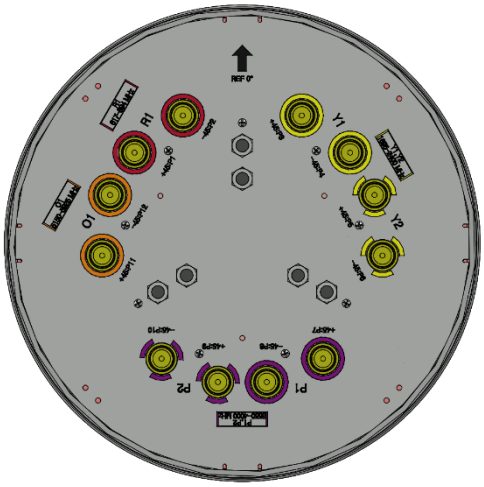
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12-Port

Outline







Bottom

MECHANICAL SPECIFICATIONS		
Connector Type & Quantity	-	12 x 4.3-10 Female
Connector Position	-	Bottom
Antenna Dimension (D x H)	(inch / mm)	Ø 14.4 x 24 / Ø 365 x 610
Weight (without Mounting Kit)	(lb / kg)	29.7 / 13.5
Wind Load (@100 mph)	(N)	316
Max.Wind Speed (Survival Wind Speed)	(km/s)	150
Radome (Color)	-	FRP (Gray)

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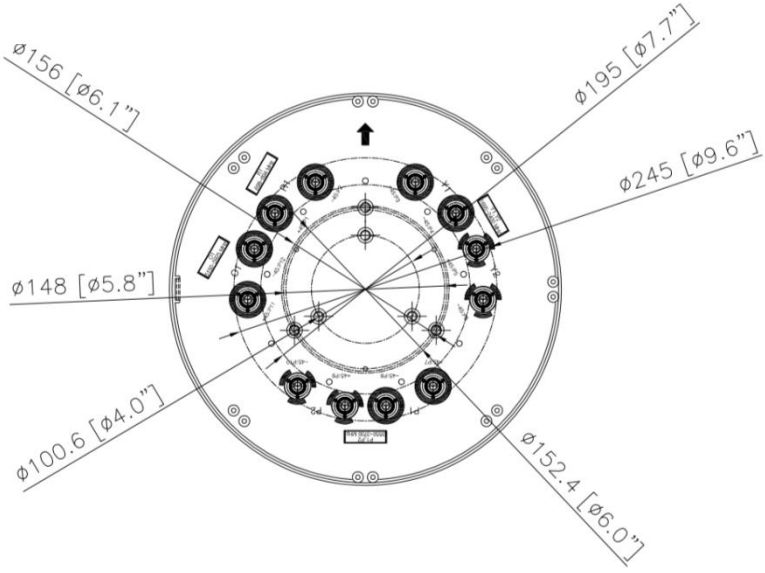
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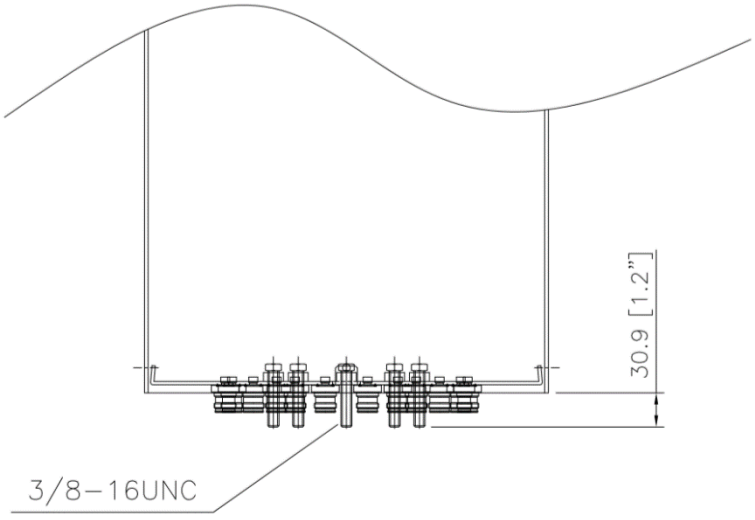
12-Port

Bottom Plate Draft

Distance measurement from pole to :

1. Connector inside : ϕ7.7"
2. Connector outside : ϕ9.6"
3. Printed specification : ϕ6.1"
4. Drain hole : ϕ5.8"
5. Diameter for Outside Mounting BKT : ϕ6.0"
6. Diameter for Inside Mounting BKT : ϕ4.0"





1. Bracket Bolt Size : 3/8" -16UNC
2. From Raydome : 1.2"

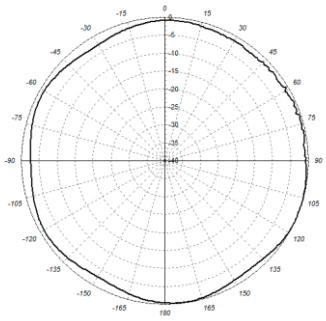
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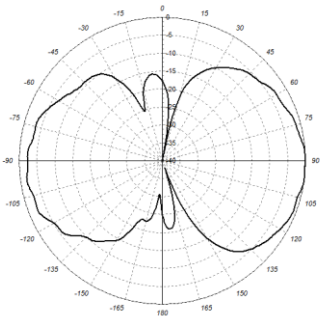
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12-Port

Pattern File_698-894 MHz

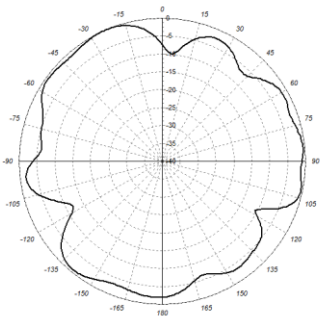


Horizontal

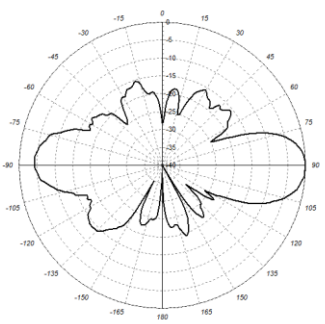


Vertical

Pattern File_1695-2400 MHz

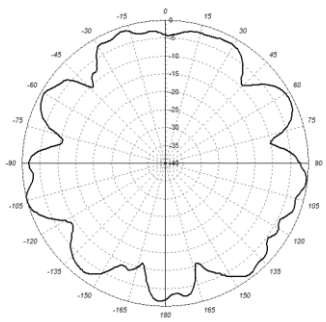


Horizontal

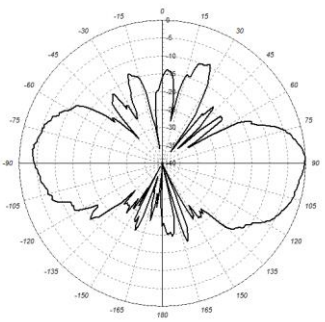


Vertical

Pattern File_3550-4000 MHz

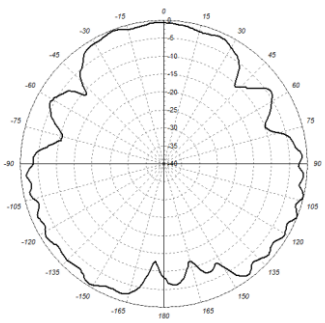


Horizontal

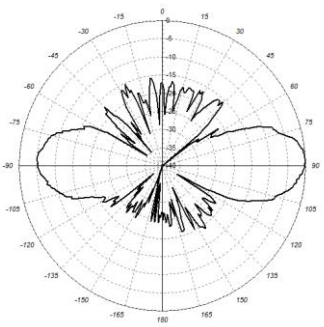


Vertical

Pattern File_5150-5925 MHz



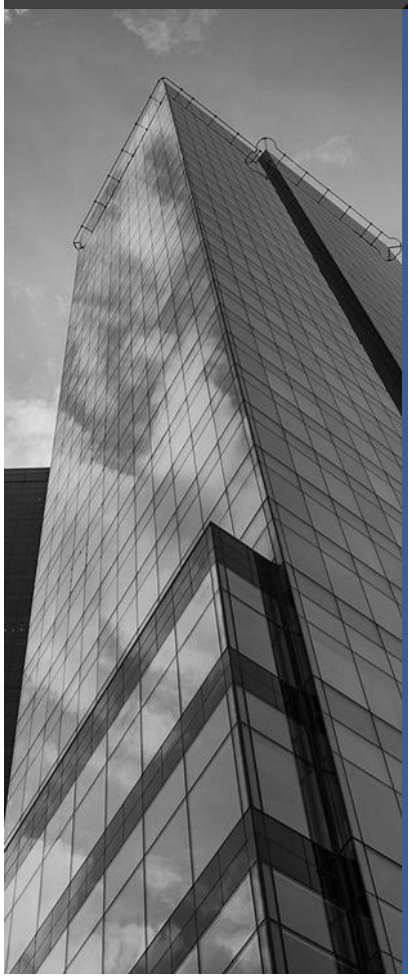
Horizontal



Vertical

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Thank you for your Consideration !

gamma nu
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