

SPECIFICATION

Part No.	:	TI.16.5F11		
Product Name	:	915MHz 5dBi Outdoors Omni-Directional Rigid Whip Antenna		
Feature	:	Stable performance at 902 MHz to 928MHz Omni-directional pattern in the azimuth Robust Weatherproof Brass Whip and Casing High Efficiency N-type Male Connector RoHS compliant		





I. Introduction

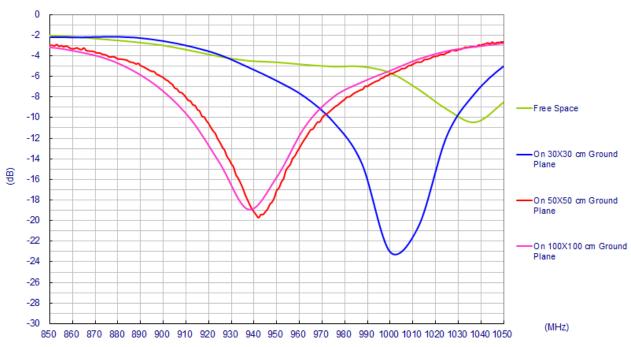
TI.16 is a 5dBi 915MHz ISM band (902MHz to 928MHz) Dipole Omni-directional antenna. This robust whip is suitable for outdoors applications where wide coverage is required especially in the azimuth plane, including metering, remote monitoring. As standard low frequency monopole antenna, its radiation property improves with mounting on metal plate. Connector can be customized on request.

ISM 915MHz						
Frequency (MHz)		900	915	925		
Peak Gain (dBi)	Free Space	-2.3	-1.7	-1.27		
	Ground (30x30cm)	-1.1	-0.3	0.2		
	Ground (50x50cm)	3.9	4.6	4.9		
Average Gain (dBi)	Free Space	-7.2	-6.8	-6.4		
	Ground (30x30cm)	-6.0	-5.2	-4.6		
	Ground (50x50cm)	-3.1	-2.2	-1.7		
Efficiency	Free Space	19%	21%	22%		
	Ground (30x30cm)	25%	30%	35%		
	Ground (50x50cm)	49%	60%	68%		
Impedance		50Ω				
Polarization		Linear				
Radiation Pattern		Omni				
Input Power		50 W				
MECHANICAL						
Dimensions		620mm				
Base Diameter		25mm				
Whip Diameter		19mm at widest				
Whip Material		Coated Brass				
Connector		N Male Straight				
ENVIRONMENTAL						
Temperature Range		-40°C to 85°C				
Humidity		Non-condensing 65°C 95% RH				

II. Specification Table

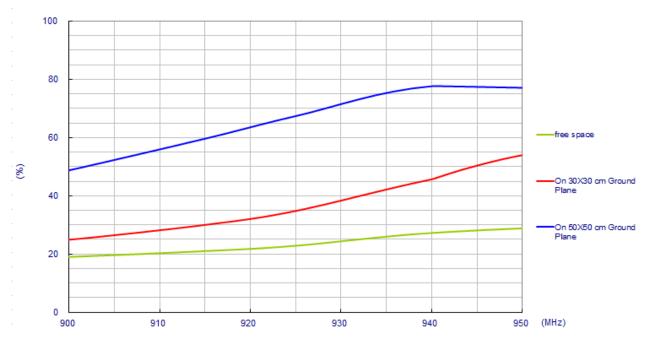


III. Antenna Characteristics

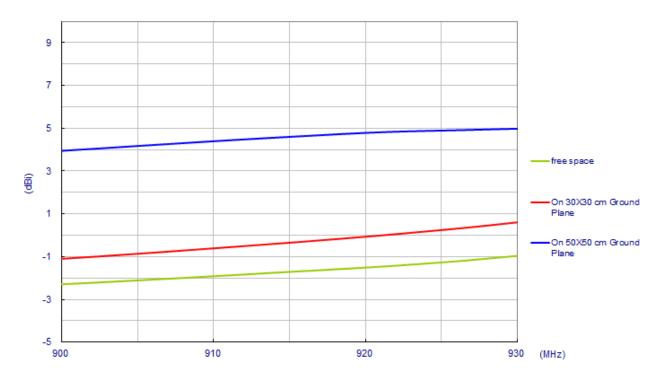


III.1. Return Loss









III.3. Peak Gain



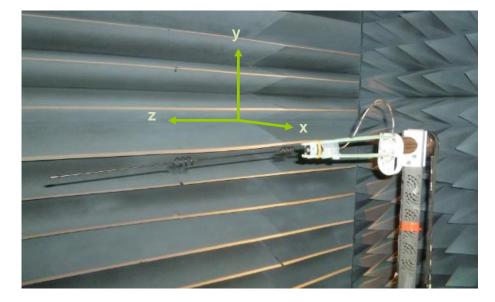
0 -2 -4 (internet) -free space -6 On 30X30 cm Ground Plane on 50X50 cm Ground plane -8 -10 930 (MHz) 900 910 920

III.4. Average Gain



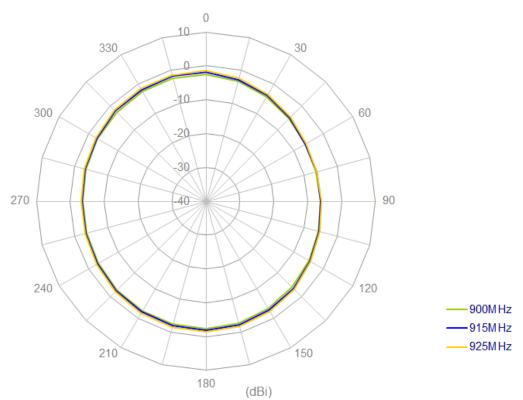
IV. Radiation Patterns

IV.1. Antenna setup (Free Space)



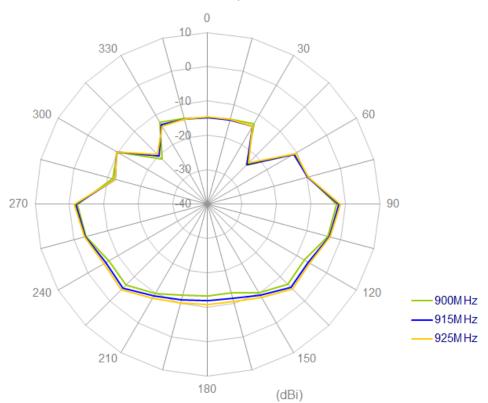
Radiation Pattern

XY plane



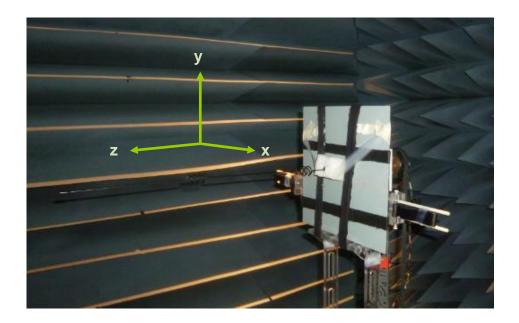






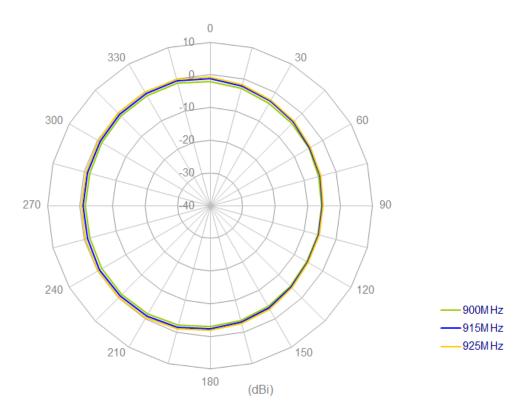


IV.2. Antenna setup (with 300x300mm ground plane)



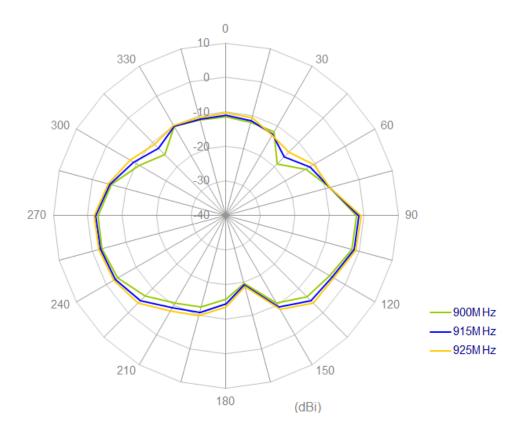
Radiation Pattern

XY plane



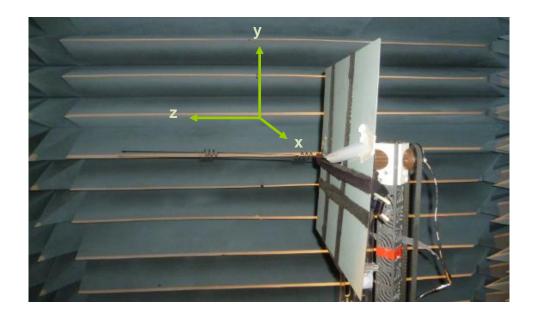


XZ plane



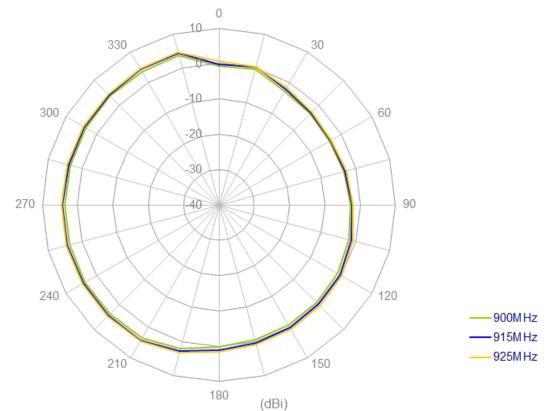


IV.3. Antenna setup (with 500x500mm ground plane)



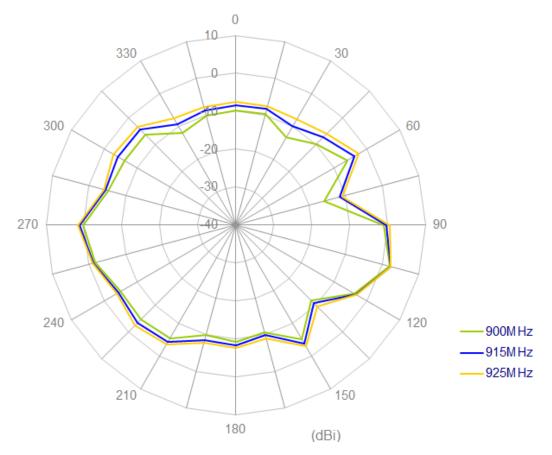
Radiation Pattern

XY plane



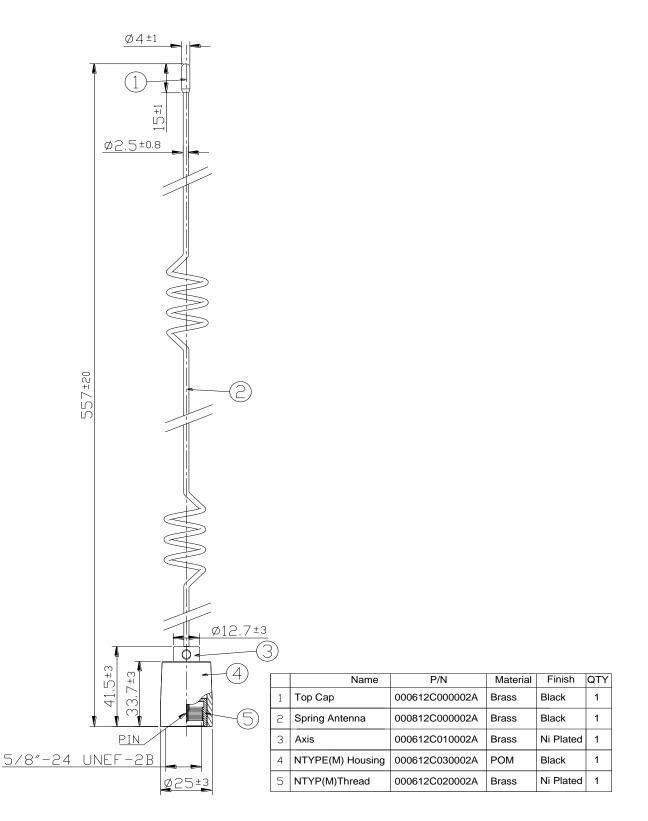


XZ plane



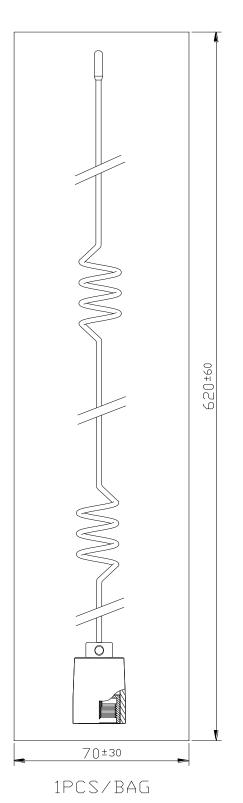


V. Drawing





VI. Packaging



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