MT-1021/D

2-30 MHz DF Antenna

Wireless Edge Antenna Solutions
An MTI Company

Electrical

Frequency	2 - 30 MHz				
Gain monopole antenna Frequency MHz Gain dBi	 2 -36	 5 -24	 10 -12	 20 -4	 30 -1
Gain Loop antenna Frequency MHz Gain dBi	 2 -41	 5 -25	 10 -13	 20 -7	 30 -6
Phase tracking monopole	±2° typ ±3° max @ 2 - 12 MHz ±4° typ ±7° max @ 12 - 30 MHz ±8° max @ 18.5-19.5 MHz				
Azimuth Beam Width	±3° max @ 2-15 MHz ±5° max @ 15-30 MHz				
Polarization Selectable via control voltage:±12VDC	I. Vertical Linear II. Right Hand Circular III. Left Hand Circular				
Nemp	IEC 1000-2-9 E=50KV/m Tr=2.5 nsec rise time T=23 nsec – 50% time duration				

Mechanical

Dimensions:	Height	4.6 m max
	Diameter	9.2 m max
Maximum weight including switching components		14 Kg
Connector		N-TYPE Female
Color		Polyurethane topcoat per MIL-C-83286 color 24064 PER FED-STD-595
Operating Service Life		20 Years

Environmental

Test	Standard	Duration	Temperature	Notes
Low Temperature	MIL-STD-810		-35°C	
High Temperature	MIL-STD-810		+71°C	
Humidity	MIL-STD-810E	Method 507.3 Procedure I		95% Fig. 507.3-1 Cycle 2
Water Tightness	IEC 529			IP67
Solar Radiation	MIL-STD-810E	1210 W/m^2		
Salt Spray	MIL-STD-810E	48 h		
Ice And Snow				5mm Radial
Wind Speed Operation				130 Km/h
Sand and Dust		The antenna shall be able to withstand exposure to sand and dust		
Fungus		The unit shall withstand fungus growth		
Rain	MIL-STD 810 E	Method 506.3, procedure I		10 cm/hr

- Note: system performance is dependent on atmospheric noise, hence, the actual gain is not critical.

11 Hamelacha st. Afek Industrial Park, Rosh-Ha'Ayin 4809121 | Tel. +972.3.9008900 | Fax. +972.3.9008901