

Specification for MT-221023/NV OMNI Directional Antenna 746-806 MHz, 6.5dBi

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MTI WIRELESS EDGE LTD.	MT-221023/NV	REV-B
SCALE: NONE	DOC NO. RD42774900C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
01		UPDATE SPEC	Yael H.	7.9.09
02		UPDATE SPEC	Yael H.	10.9.09
03		UPDATE SPEC	Yael H.	17.3.10
04		DELETE MOUNTING KIT	Yael H.	22.3.10
A	DC32	RELAESD	Yael H.	26.4.10
B	4588	UPDATE HEIGHT OF ANTENNA FROM 1100 TO 1115	Yael H.	2.5.10

SHEET	43	44	45	46	47	48	49	50	51	52	53	54	55	56
REV														
SHEET	29	30	31	32	33	34	35	36	37	38	39	40	41	42
REV														
SHEET	15	16	17	18	19	20	21	22	23	24	25	26	27	28
REV														
SHEET	1	2	3	4	5	6	7	8	9	10	11	12	13	14
REV	B	B	B	B										

PRODUCT STATUS:			
☐ PROPOSAL	☒ IN DEVELOPMENT	☐ PREPRODUCTION	☐ PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael	Yael	6.9.09
CHKD	DANIEL ZERAH	D.Z	26.4.10
CHKD			
CHKD			
DSGN	MAURICE DADOUN	M.D	21.4.10
PROJ	MOTI ROSTMY	M.R	19.4.10
MFG			
QA	MOTI MOTOVICH	MOTI	22.4.10
MARK.	DROR REISS	D.R	22.4.10

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SPECIFICATION

OMNI Directional Antenna

MTI PART NUMBER		MT-221023/NV
Regulatory Compliance		RoHS , CE 0682
<u>1. ELECTRICAL</u>		
Frequency Range		746 – 806 MHz
VSWR		<1.8 : 1
Gain at Horizon*		6.5 dBi (typ) ; 5.8dBi (min. over freq. range and azimuth ripple)
Azimuth Beam width		360°
Azimuth Ripple		±0.5 dB (max)
Beam Squint (Elevation)		±4° ; (750 – 790MHz: ±2.5°)
E-Plane Beam width		18°±1.5°
Elevation Side-Lobes		-12dB typ., -9.dB max.
Cross Polarization		-15dB (max)
Polarization		Linear Vertical
E - Plane Beam width		17° (typ)
Input Impedance		50 (ohms)
Power		10 W (max)
Lightning Protection		DC Grounded
<u>2. MECHANICAL</u>		
Dimensions :		
	Diameter	50 mm (max)
	Height	1115 mm (max)
Weight		0.5 kg (max)
Connector		N- type Female
Radome		Plastic
Outline Drawing		RD42990500C

*Gain reflects impact of beam squint, Ripple and Radome.

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3. ENVIRONMENTAL				
TEST	STANDARD	DURATION	TEMPERTURE	NOTES
Low Temperature	IEC 68-2-1	72 h	-55°C	-
High Temperature	IEC 68-2-2	72 h	+71°C	-
Temp. Cycling	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
Vibration	IEC 60721-3-4	30 min/axis	-	Random 4M5
Shock Mechanical	IEC 60721-3-4	-	-	4M5
Humidity	ETSI EN300-2-4 T4.1E	144 h	-	95%
Water Tightness	IEC 529	-	-	IP67
Solar Radiation	ASTM G 154	1000 h	-	-
Flammability	UL 94	-	-	Class HB
Salt Spray	IEC 68-2-11 Ka	500 h	-	-
Ice And Snow	-	-	-	25mm Radial
Wind Speed Survival Operation	- -	- -	- -	220 Km/h 160 Km/h

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