

SPECIFICATION FOR MT – 242040/NRH RHCP READER ANTENNA 865 - 870 MHz, 7.5 dBic

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MTI WIRELESS EDGE LTD.	MT – 242040/NRH	REV-A
SCALE: NONE	DOC RD42181400C	SHEET 1 OF 4

REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CX34	RELAESD	Yael H.	15.5.07
B	2127	ADD AXIAL RATIO	Yael h.	3.6.07

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:			
<input type="checkbox"/> PROPOSAL	<input type="checkbox"/> IN DEVELOPMENT	<input type="checkbox"/> PREPRODUCTION	<input checked="" type="checkbox"/> PRODUCTION

CONTRACT NO			
ACTION	NAME	SIGN	DATE
PREP	Yael HARASH	Yael	8.5.07
CHKD	DANIEL ZERAH	D.Z	14.5.07
CHKD			
CHKD			
DSGN	ASAF HAVIV	A.H	13.5.07
PROJ	ALEX DRAGILEV	A.D	13.5.07
MFG			
QA	MOTI MOTOVICH	MOTI	14.5.07
MARK.	REUVEN DRORI	R.D	14.5.07

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SPECIFICATION

FLAT PANEL READER ANTENNA

MTI PART NUMBER	MT – 242040/NRH
REGULATORY COMPLIANCE	RoHS , CE 0682
1. <u>ELECTRICAL</u>	
FREQUENCY RANGE	865 - 870 MHz
GAIN	7.5 dBic (min)
VSWR	1.3:1 (typ) 1.5 : 1(max)
3 dB BEAMWIDTH	AZ 75°±5 EL 73°±5
POLARIZATION	RHCP
AXIAL RATIO AT BORESIGHT	2 dB (typ) 2.5 dB (max)
AXIAL RATIO @ ± 30°	3 dB (max)
F / B RATIO	-18 dB (max)
INPUT IMPEDANCE	50 ohm
INPUT POWER	6W (max)
LIGHTNING PROTECTION	DC Grounded
2. <u>MECHANICAL</u>	
DIMENSIONS(LxWxD)	190 x 190 x 30 mm (max)
WEIGHT	0.8 (Kgs) (max)
CONNECTOR	N-Type female
RADOME	Plastic
BASE PLATE	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD42181600C
3. <u>MOUNTING KIT</u>	
SEE RD41191800C , MT-120018/A	

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4. 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 Cycle s
THERMAL SHOCK NONO-OPERATING			-30°C to +70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
WATER TIGHTNESS*	IEC 529	-	-	IP54
DUST RESISTANCE*				IP54
SOLAR RADIATION	ASTM G53	1000 h	-	-
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94	-	-	Class HB
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1g rms, 10- 500 Hz, in 3 axis			6 hours total, 2 hr in each axis. Accelerated wear – an additional 50hrs in worst case axis.
MECHANICAL SHOCK OPERATING	10g, 11 msec, half sine pulse			

* IP 67 AVAILABLE UPON REQUEST

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