



Homepage > Products > RFID Antennas > 902-928 MHz Reader Antennas > **Circular Antennas**

CIRCULAR ANTENNAS

MT-262006/TRH/A/K 902-928 MHZ, 9 DBIC RHCP READER ANTENNA



ELECTRICAL

REGULATORY COMPLIANCE	RoHS, CE 0682
FREQUENCY RANGE	902 - 928 MHz
GAIN	9dBiC (min) , 9dBiL (max)
VSWR	1.3:1 (max)
POLARIZATION	RHCP
3dB ELEVATION BEAMWIDTH	63° (typ)
3dB AZIMUTH BEAMWIDTH	63° (typ)
SIDELOBES LEVEL @ ± 90°	-16 dB (max)
F/B RATIO	-18 dB (max) -20 dB (typ)
POWER	6W (max)
INPUT IMPEDANCE	50 (ohm)
AXIAL RATIO AT BORESIGHT	4 dB (max)
LIGHTNING PROTECTION	DC Grounded

MECHANICAL

DIMENSIONS (LxWxD)	305x305x25mm (max)
CONNECTOR	Reverse Polarity TNC Female
WEIGHT	1.2 kg (max)
MOUNTING KIT	SEE RD41191800C
RADOME MATERIAL	Plastic UV Resistant per ETSI 300
BASE PLATE MATERIAL	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD41880300C

ORIENTATION	Rectangular
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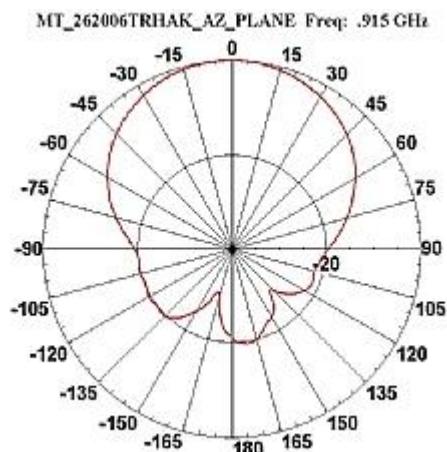
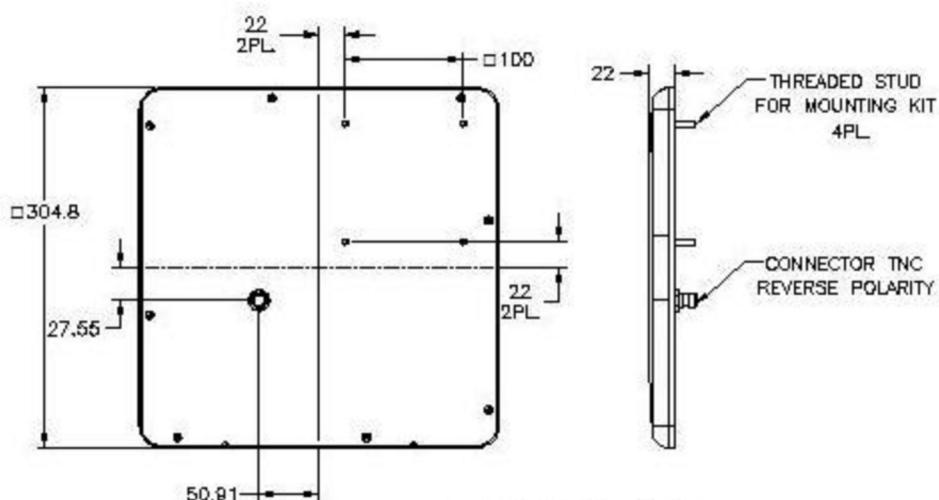
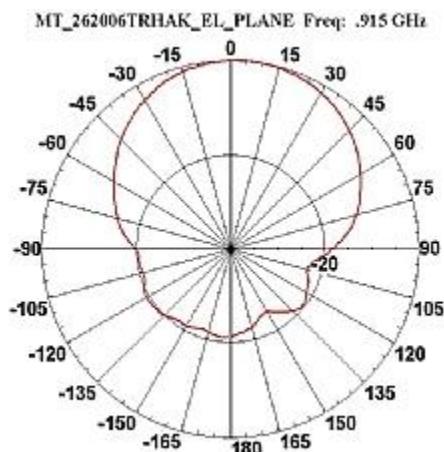
ENVIRONMENTAL

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
THERMAL SHOCK NON-OPERATING			-30°C to +70°C	Ramp 30°C/min
HUMIDITY	ETSI EN300-2-4 T4.1E	144 h		95%
WATER TIGHTNESS	IEC 529			IP67 (*please see comment below)
DUST RESISTANCE				IP67
SOLAR RADIATION	ASTM G53	1000h		
OZONE RESISTANCE	ETSI 300			
FLAMMABILITY	UL 94			Class HB
SALT SPRAY	IEC 68-2-1 Ka	500 h		
ICE AND SNOW			25 mm Radial	
WIND SPEED SURVIVAL OPERATION				220 Kh/m 160 Kh/m
WIND LOAD (SURVIVAL) : FRONT THRUST SIDE THRUST				28.6 Km 2.2 Km
QUASI RANDOM VIBRATION				20g rms for 4 hours
VEHICLE VIBRATION OPERATING	1 grms, 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
OPERATING10g, 11msec,
half sine pulse

*For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

**AZIMUTH RADIATION PATTERN MIDBAND
FREQ. 0.915 GHZ****ELEVATION RADIATION PATTERN MIDBAND
FREQ. 0.915 GHZ**

WAIVER!

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Kim Francisco

From: Reuven Drori <reuven.drori@mtiwe.com>
Sent: Tuesday, June 02, 2020 3:54 AM
To: Thomas Frederick
Cc: Shelly Ofer; Kim Francisco
Subject: RE: maximum linear gain of the MT-262024/TRH/A/K antenna
Attachments: MT-262013-TRH-A-K.zip

Hi Thomas,

Thank you for the update!

MT-262024/TRH/A/K – 7.25 dBi (max)
We have the MT-262013/TRH/A/K with 6.15 dBi (max)

Regards,

Reuven Drori – VP RFID Sales & Marketing
MTI Wireless Edge
Tel: +972-3-9008900 Ext: 331 Fax: +972-3-9008901
Home Office: +972-9-8944938 Mobile: +972-54-6306542
Email: reuven.drori@mtiwe.com
www.mtiwe.com Skype: reuvendr

We offer Linear, Circular and Dual Circular Antennas for RFID Systems. Please contact us for more details

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From: Thomas Frederick [mailto:tfrederick@clair-tech.com]
Sent: Monday, June 1, 2020 22:35
To: Reuven Drori <reuven.drori@mtiwe.com>
Cc: Shelly Ofer <Shelly.Ofer@mtiwe.com>; Kim Francisco <kfrancisco@clair-tech.com>
Subject: maximum linear gain of the MT-262024/TRH/A/K antenna

Hi Reuven,

We intend to certify with the MT-262024/TRH/A/K antenna.
You will be hearing from John Lourigan by early next week regarding our inventory purchase order.
For FCC certification, can you please tell us the maximum linear gain of the MT-262024/TRH/A/K antenna?

Thanks,
Tom

--
Thomas J. Frederick
Clairvoyant Technology LLC

3622 Lyckan Parkway, Suite 2006

Durham, NC 27707

Office: (919) 636-4298

Mobile: (919) 491-5062

Fax: (919) 883-5840

tfrerick@clair-tech.com

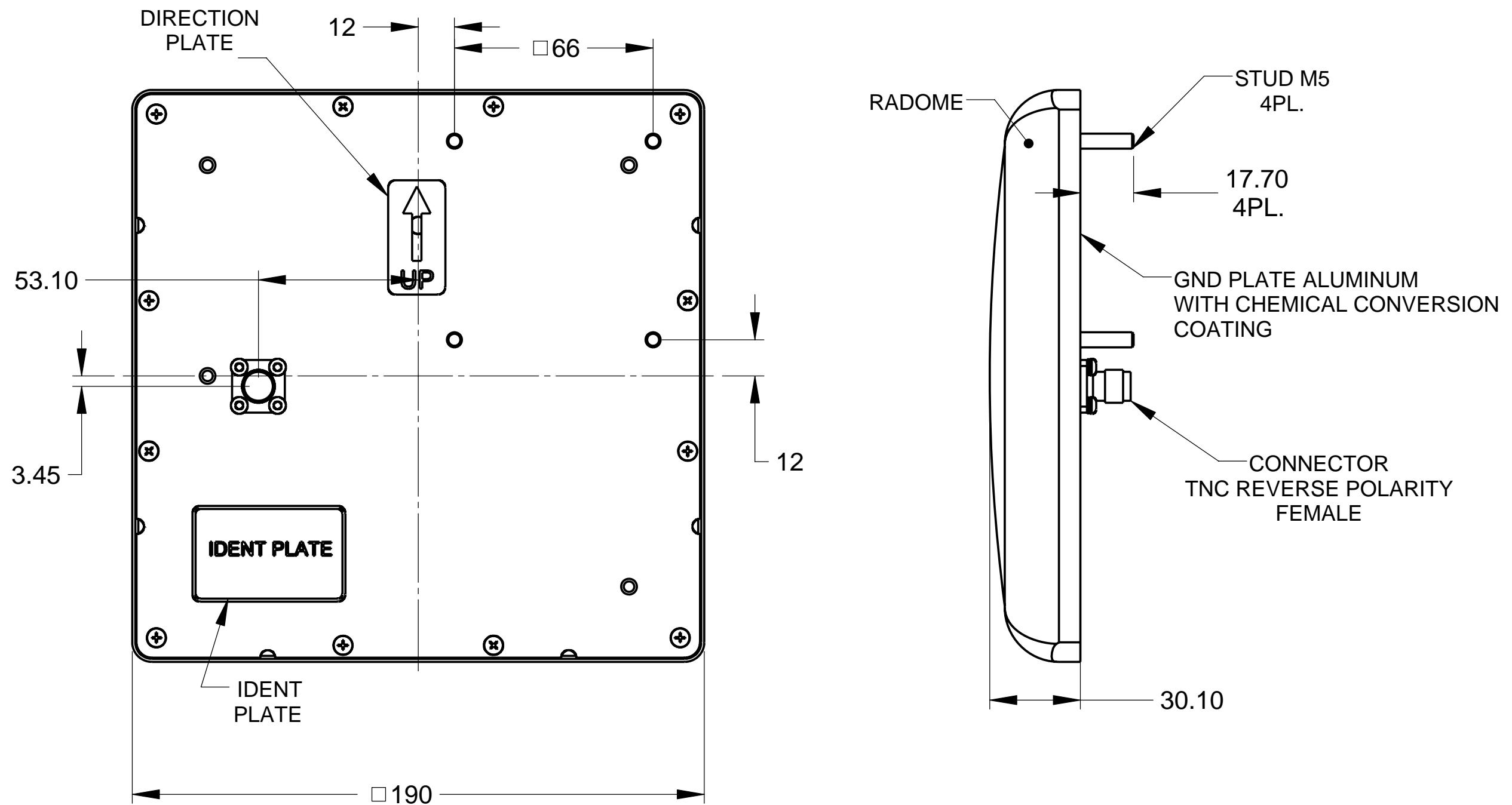
www.clairvoyant-technology.com

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SHEET REVISION STATUS				
5	4	3	2	1
			A	LATEST REV

DESCRIPTION				
REV	ECO	REVISION RECORD	APVD	DATE
A	CY01	RELAESED	YAEL H.	9.9.07



ALL DIMENSIONS ARE REF

UNLESS OTHERWISE SP
DIMENSIONS ARE IN
INCHES
PER ANSI Y14.5M-1994

ED CONTRACT TO



WIRELESS EDGE LTD.

ANTENNA 902-928MHz MT-262013/TRH/A/K ICD

MT-262013/TRH/A/K

NEXT ASSY

UNLESS OTHERWISE SPECIFIED		CONTRACT TO				 WIRELESS EDGE LTD. TITLE ANTENNA 902-928MHz MT-262013/TRH/A/K ICD				
DIMENSIONS ARE IN mm PER ANSI Y14.5M-1982										
TOLERANCE LINEAR ANGULAR		DWG	Yael	Yael	23.4.07					
		CHKD								
± 0.2	± / °	DSGN	ALEX D.	A.D	30.4.07					
		PROJ	ALEX D.	A.D	30.4.07					
		MFG								
SURFACE TEXTURE IN MICRO IN.		QA	MOTOVICH	MOTI	9.9.07		SIZE A3		DWG NO	RD42293900C
SCALE- 1:1.5									SHEET 1 OF 1	

SPECIFICATION FOR MT – 262013/TRH/A/K READER ANTENNA 902-928 MHz, 7.5 dBiC

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REVISION RECORD				
REV	ECO	DESCRIPTION	APVD	DATE
A	CY01	RELAESED	Yael h.	9.9.07
B	7232	ADD SALT SPRAY	Yael H.	4.11.14

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	26.3.07	
CHKD	DOV FEINER		2.4.07	
CHKD				
CHKD				
DSGN	SERGEY ZEMLYAKOV	S.Z	27.3.07	
PROJ	ALEX DRAGILEV	A.D	26.3.07	
MFG				
QA	MOTI MOTOVICH	MOTI	9.9.07	
MARK.	REUVEN DRORI	R.D	1.4.07	

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262013/TRH/A/K READER ANTENNA		
DOC NO. RD42293700C	902-928 MHz, 7.5 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 2 OF 4

SPECIFICATION
FLAT PANEL READER ANTENNA

MTI PART NUMBER	MT – 262013/TRH/A/K
REGULATORY COMPLIANCE	RoHS , CE 0682
<u>1. ELECTRICAL</u>	
FREQUENCY RANGE	902-928 MHz
GAIN	7.5 dBic (min)
VSWR	1.3:1 (max)
AZIMUTH 3 dB BEAMWIDTH	70° ±3°
ELEVATION 3 dB BEAMWIDTH	71° ±1°
POLARIZATION	RHCP
SIDELOBES LEVEL AND FRONT TO BACK	-19 dB (max)
AXIAL RATIO	1 dB (typ) 1.3 dB (max) @ BORESIGHT 2 dB (typ) 3.5 dB (max) @ 3 dB BEAMWIDTH
INPUT IMPEDANCE	50 (Ohm)
INPUT POWER	6 W (max)
LIGHTNING PROTECTION	DC Grounded
<u>2. MECHANICAL</u>	
DIMENSIONS (LxWxD)	190x190x30 mm (max)
ORIENTATION	Rectangular
WEIGHT	0.8 kg (max)
CONNECTOR	Reverse Polarity TNC
RADOME	Plastic UV Resistant per ETSI 300
BASE PLATE	Aluminum with chemical conversion coating
OUTLINE DRAWING	RD42293900C
<u>3. MOUNTING KIT</u>	SEE RD41191800C , MT-120018/A

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262013/TRH/A/K READER ANTENNA		
DOC NO. RD42293700C	902-928 MHz, 7.5 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 3 OF 4

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 Cycles
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	-	-	IP67(*please see comment below)
DUST RESISTANCE				IP67(*please see comment below)
SOLAR RADIATION	ASTM G53	1000 h	-	-
SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
OZONE RESISTANCE	ETSI 300			
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			

* For outdoor installations that require mounting the antenna horizontally facing ground, please contact MTI representative for the dedicated P/N

MTI WIRELESS EDGE LTD.	SPECIFICATION FOR MT – 262013/TRH/A/K READER ANTENNA		
DOC NO. RD42293700C	902-928 MHz, 7.5 dBic		
SCALE: NONE	CLASSIFICATION: NONE	REV-B	SHEET 4 OF 4