

Antenna Data Sheet MT-222005/N Page 1 of 2

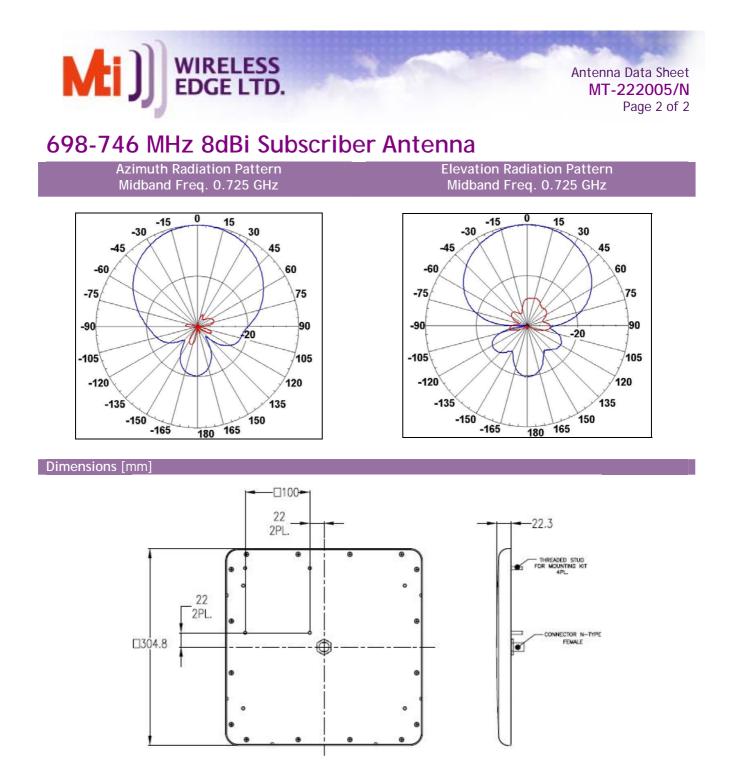
MT-222005/N

698-746 MHz 8dBi Subscriber Antenna



Specifications

ELECTRICAL REQUENTORY COMPLIANCE RoHS, CE 0682 FREQUENCY RANGE 698-746 MHz GAIN 698-746 MHz GAIN 698-746 MHz GAIN INTERNING SABLE	MTI PART NUMBER		MT - 222005/N		
FREQUENCY RANGE 698-746 MHz GAIN 8 dB (min) VSWR 2 : 1 (max) 3 dB BEAMWIDTH 60° (typ) POLARIZATION Lincar (Vertical or Horizontal) CROSS POLARIZATION -20dB (max) F/B RATIO -20dB (max) INPUT MPEDANCE 50 (ohm) INPUT POWER 6W (max) LIGHTNING PROTECTION DC Grounded MECHANICAL DIMENSIONS (LxWxD) DC Grounded VEIGHT 1.2kg (max)	ELECTRICAL				
GAIN 8 dBi (min) VSWR 2 : 1 (max) 3 dB BEAMWIDTH 60° (vp) POLARIZATION Linear (Vertical □ Horizontal) CROSS POLARIZATION -20dB (max) F/B RATIO -20dB (max) INPUT IMPEDANCE 50 (ohm) INPUT POWER 60° (sp) LIGHTNING PROTECTION DC Grounded MEGHAT 205x305x25mm (max) MEGHAT 305x305x25mm (max) MEIGHT 1.2kg (max) CONNECTOR N-type Female RADOME Plastic GADME Plastic MUUTLINE DRAWING MT-120018 MOUNTING KIT MT-120018 FTS STANDARD DURATION MUMEMERATURE IEC 68-2-1 ICG 162-2 72 h -57 c TEMP. CYCLING IEC 68-2-14 1h -45 °C +0° C ICH TEMPERATURE IEC 68-2-14 1h -45 °C +0° C ICH TEMPERATURE IEC 68-2-14 1h -55 °C - ICH TEMPERATURE IEC 68-2-14 1h -65 °C - ICH TEMPERATURE	REGULATORY COMPLIAN	CE	RoHS, CE 0682		
VSWR 2 : 1 (max) 3 dB BEAMWIDTH 60° (typ) POLARIZATION Linear (Vertical or Horizontal) CROSS POLARIZATION -20dB (max) F/B RATIO -20dB (max) INPUT IMPEDANCE 50 (ohm) INPUT IMPEDANCE 50 (ohm) INPUT POWER 6W (max) LIGHTNING PROTECTION 005 rounded MECHANICA	FREQUENCY RANGE		698-746 MHz		
3 dB BEAMWIDTH 60° (typ) POLARIZATION -20dB (max) CROSS POLARIZATION -20dB (max) INPUT IMPEDANCE 50 (ohm) INPUT IMPEDANCE 50 (ohm) INPUT IMPEDANCE 6W (max) LIGHTNING PROTECTION 00 Carounded MECHANICAL 00 Carounded MECHANICAL 305x305x25mm (max) WEIGHT 1.2kg (max) CONNECTOR N-type Female RADOME N-type Female RADOME Auminum with chemical conversion cursion 0UTLINE DRAWING See page 2 MOUNTING KIT NOTES ENVIENDMENTAL See page 2 IOW TEMPERATURE IEC 68-2-1 IOW TEMPERATURE IEC 68-2-1 IOW TEMPERATURE IEC 68-2-1 ICON TEMPERATURE IEC 68-2-14 ILGH TEMPERATURE <	GAIN		8 dBi (min)		
POLARIZATION Linear (Vertical or Horizontal) CROSS POLARIZATION -20d8 (max) F/B RATIO -20d8 (max) INPUT IMPEDANCE 50 (ohm) INPUT IMPEDANCE 6W (max) LIGHTNING PROTECTION DC Grounded MECHANICAL 0C Grounded MEIGHT 1.2kg (max) CONNECTOR N-type Female RADOME Plastic BASE PLATE Aluminum with chemical conversion coating OUTLINE DRAWING See page 2 MOUNTING KIT See page 2 MOUNTING KIT See page 2 MOUNTING KIT StaNDARD DURATION IEC 68-2.1 LOW TEMPERATURE IEC 68-2.1 CYCLING IEC 68-2.2 TEMP. CYCLING IEC 68-2.1 UIRATION IEC 66721-3.4 SHOCK MECHANICAL IEC 60721-3.4 UIRATION IEC 6672-1.3.4 MOUNTIY ETSI FIN300-2.4 TA.11E HUMIDITY ETSI FIN300-2.4 TA.11E VIRATION IEC 60721-3.4 SHOCK MECHANICAL IEC 6672-1.3.4 MUMID CONTINING -	VSWR		2 : 1 (max)		
CROSS POLARIZATION -20dB (max) F/B RATIO -20dB (max) INPUT IMPEDANCE 50 (ohm) INPUT POWER 6W (max) LIGHTNING PROTECTION DC Grounded MECHANICAL CG Grounded MECHANICAL 305x305x25mm (max) VEIGHT 1.2kg (max) CONNECTOR N-type Female RADOME Plastic BASE PLATE Aluminum with c=mical conversion c=ating OUTLINE DRAWING See page 2 MOUNTING KIT MT-120018 ENVIRONMENTAL MT-120018 ENVIRONMENTAL StanDARD DURATION TEMP CYCLING IEC 68-2-1 72 h -55 °C ILGH TEMPERATURE IEC 66-2-2 72 h -71 °C - TEMP. CYCLING IEC 60721-3-4 30 min/axis Random4M5 SHOCK MECHANICAL IEC 60721-3-4 - 4M5 HUMDITY ETS IE N300-2-4 T4.1E 144 h - 95% VATER TIGHTNESS IEC 662-21 72 h -71 °C - SHOCK MECHANICAL IEC 60721-3-4 - - -	3 dB BEAMWIDTH		60°(typ)		
F/B RATIO -20dB (max) INPUT IMPEDANCE 50 (ohm) INPUT POWER 6W (max) LIGHTNING PROTECTION DC Grounded MECHANICAL DC Grounded DIMENSIONS (LxWxD) 305x305x25mm (max) WEIGHT 1.2kg (max) CONNECTOR N-type Female RADOME Plastic BASE PLATE Aluminum with chemical conversion couting OUTLINE DRAWING See page 2 MOUNTING KIT MT-120018 ENVIRONMENTAL T2 h TEST STANDARD DURATION TEMP. CYCLING IEC 68-2-1 72 h +51°°C INGH TEMPERATURE IEC 68-2-1 72 h +51°°C - INGH TEMPERATURE IEC 68-2-1 72 h +51°°C - VIBRATION IEC 60721-3-4 30 min/axis - Random4M5 SHOCK MECHANICAL IEC 60721-3-4 30 min/axis - H67 VIBRATION IEC 68-2-11 H 144 h - 95% VIBRATION IEC 68-2-11 Ka 1000 h - - SOLAR RDIATION<	POLARIZATION		Linear (Vertica	l or Horizontal)	
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INPUT POWER6W (max)LIGHTNING PROTECTIONDC GroundedMECHANICAL305x305x25mm (max)DIMENSIONS (LxWxD)305x305x25mm (max)WEIGHT1.2kg (max)CONNECTORN-type FemaleRADOMEPlasticBASE PLATEAluminum with chemical conversion coatingOUTLINE DRAWINGSee page 2MOUNTING KITMT-120018ENVIRONMENTALENVIRONMENTALDURATIONTESTSTANDARDDURATIONTEMPERTUREHIGH TEMPERATUREIEC 68-2-11CE 68-2-141 h45°C +70°C3 CyclesVIBRATIONIEC 68-2-141DM LC 60721-3-4-SHOCK MECHANICALIEC 60721-3-41CE 60721-3-4-1CE 60721-3-4-1000 h-SHOCK MECHANICALIEC 6291CE AND SNOW-1CE AND SNOW1CE AND SNOW-1CE AND SNOW-1CE AND SNOW1CE GAND SNOW<	F/B RATIO		-20dB (max)		
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DIMENSIONS (LxWxD)305x305x25mm (max)WEIGHT1.2kg (max)CONNECTORN-type FemaleRADOMEPlasticBASE PLATEAluminum with chemical conversion coatingOUTLINE DRAWINGSee page 2MOUNTING KITMT-120018 ENVIRONMENTAL TESTSTANDARDDURATIONTEMPERTURENOTES72 h-55°CIGH TEMPERATUREIEC 68-2-172 h-55°CIGH TEMPERATUREIEC 68-2-172 h-41°CTEMP, CYCLINGIEC 68-2-141 h-45°C +70°C3 CyclesVIBRATIONIEC 60721-3-430 min/axis-Random4M5SHOCK MECHANICALIEC 60721-3-44M5HUMIDITYETSI EN300-2-4 T4.1E144 h-95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND LOAD (SURVIVAL)20 Km/hOPERATION20 Km/hOPERATION160 Km/h	LIGHTNING PROTECTION		DC Grounded		
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OUTLINE DRAWING See page 2 MOUNTING KIT MT-120018 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 - Random4M5 SHOCK MECHANICAL IEC 60721-3-4 - - 4M5 HUMIDITY ETSI EN300-2-4 T4.1E 144 h - 95% WATER TIGHTNESS IEC 529 - - IP67 SOLAR RADIATION ASTAM G53 1000 h - - FLAMMABILITY UL 94 - - Class HB SALT SPRAY IEC 68-2-11 Ka 500 h - - ICE AND SNOW - - 220 Km/h OPERATION - - 220 Km/h OPERATION - </td <td>RADOME</td> <td></td> <td>Plastic</td> <td></td> <td></td>	RADOME		Plastic		
MOUNTING KIT MT-120018 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 - Random4M5 SHOCK MECHANICAL IEC 60721-3-4 - - 4M5 HUMIDITY ETSI EN300-2-4 T4.1E 144 h - 95% WATER TIGHTNESS IEC 529 - - IP67 SOLAR RADIATION ASTAM G53 1000 h - - FLAMMABILITY UL 94 - - Class HB SALT SPRAY IEC 68-2-11 Ka 500 h - - SOLAR RADIATION ASTAM G53 1000 h - - SALT SPRAY IEC 68-2-11 Ka 500 h - - SOLAR RADIN SNOW - <td< td=""><td>BASE PLATE</td><td></td><td>Aluminum with</td><td>chemical conversion</td><td>coating</td></td<>	BASE PLATE		Aluminum with	chemical conversion	coating
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TESTSTANDARDDURATIONTEMPERTURENOTESLOW TEMPERATUREIEC 68-2-172 h-55°C-HIGH TEMPERATUREIEC 68-2-272 h+71°C-TEMP. CYCLINGIEC 68-2-141 h-45°C +70°C3 CyclesVIBRATIONIEC 60721-3-430 min/axis-Random4M5SHOCK MECHANICALIEC 60721-3-44M5HUMIDITYETSI EN300-2-4 T4.1E144 h95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW220 Km/h-OPERATION160 Km/hWIND SPEED SURVIVAL39.6 kgWIND LOAD (SURVIVAL)39.6 kg	MOUNTING KIT		MT-120018		
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 - Random4M5 SHOCK MECHANICAL IEC 60721-3-4 - - 4M5 HUMIDITY ETSI EN300-2-4 T4.1E 144 h - 95% WATER TIGHTNESS IEC 529 - - IP67 SOLAR RADIATION ASTAM G53 1000 h - - FLAMMABILITY UL 94 - - Class HB SALT SPRAY IEC 68-2-11 Ka 500 h - - ICE AND SNOW - - 25mm Radial WIND SPEED SURVIVAL - - 160 Km/h OPERATION - - - 160 Km/h	ENVIRONMENTAL				
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 - Random4M5 SHOCK MECHANICAL IEC 60721-3-4 - - 4M5 HUMIDITY ETSI EN300-2-4 T4.1E 144 h - 95% WATER TIGHTNESS IEC 529 - - IP67 SOLAR RADIATION ASTAM G53 1000 h - - FLAMMABILITY UL 94 - - Class HB SALT SPRAY IEC 68-2-11 Ka 500 h - - ICE AND SNOW - - 220 Km/h - VIND SPEED SURVIVAL - - 160 Km/h - WIND LOAD (SURVIVAL) - - - 39.6 kg -	TEST	STANDARD	DURATION	TEMPERTURE	NOTES
TEMP. CYCLINGIEC 68-2-141 h-45°C +70°C3 CyclesVIBRATIONIEC 60721-3-430 min/axis-Random4M5SHOCK MECHANICALIEC 60721-3-44M5HUMIDITYETSI EN300-2-4 T4.1E144 h-95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL160 Km/hWIND LOAD (SURVIVAL)39.6 kg	LOW TEMPERATURE	IEC 68-2-1	72 h	-55°C	-
VIBRATIONIEC 60721-3-430 min/axis-Random4M5SHOCK MECHANICALIEC 60721-3-44M5HUMIDITYETSI EN300-2-4 T4.1E144 h-95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94-Class HBSALT SPRAYIEC 68-2-11 Ka500 h-ICE AND SNOW25mm RadialWIND SPEED SURVIVAL160 Km/hWIND LOAD (SURVIVAL)39.6 kg	HIGH TEMPERATURE	IEC 68-2-2	72 h	+71°C	-
SHOCK MECHANICALIEC 60721-3-44M5HUMIDITYETSI EN300-2-4 T4.1E144 h-95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	TEMP. CYCLING	IEC 68-2-14	1 h	-45°C +70°C	3 Cycles
HUMIDITYETSI EN300-2-4 T4.1E144 h-95%WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	VIBRATION	IEC 60721-3-4	30 min/axis	-	Random4M5
WATER TIGHTNESSIEC 529IP67SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	SHOCK MECHANICAL	IEC 60721-3-4	-	-	4M5
SOLAR RADIATIONASTAM G531000 hFLAMMABILITYUL 94Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	HUMIDITY	ETSI EN300-2-4 T4.1E	144 h	-	95%
FLAMMABILITYUL 94-Class HBSALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	WATER TIGHTNESS	IEC 529	-	-	IP67
SALT SPRAYIEC 68-2-11 Ka500 hICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	SOLAR RADIATION	ASTAM G53	1000 h	-	-
ICE AND SNOW25mm RadialWIND SPEED SURVIVAL220 Km/hOPERATION160 Km/hWIND LOAD (SURVIVAL)39.6 kg	FLAMMABILITY	UL 94	-	-	Class HB
WIND SPEED SURVIVAL - - 220 Km/h OPERATION - 160 Km/h WIND LOAD (SURVIVAL) - - 39.6 kg	SALT SPRAY	IEC 68-2-11 Ka	500 h	-	-
OPERATION - 160 km/h WIND LOAD (SURVIVAL) FRONT TRHRUST - - 39.6 kg	ICE AND SNOW	-	-	-	25mm Radial
WIND LOAD (SURVIVAL) FRONT TRHRUST 39.6 kg	WIND SPEED SURVIVAL	-	-	-	220 Km/h
FRONT TRHRUST 39.6 kg	OPERATION		-	-	160 Km/h
SIDE 4.3 kg		-	-	-	39.6 kg
	SIDE	-	-	-	4.3 kg



Existing Antenna Versions

Existing Antenna versions			
MT-222005/F	With 75 OHM F-Type Female		

MTI Wireless Edge is certified according to ISO 9001 and ISO 14001.

WAIVER!

While the information contained in this document has been carefully compiled to the best of our present knowledge, it is not intended as presentation or warranty of any kind on our part regarding the fitness of the products concerned for any particular use or purpose and neither shall any statement contained herein be construed as a recommendation to infringe any industrial property rights or as a license to use any such rights. The fitness of each product for any particular purpose must be checked beforehand with our specialists.

MTI Wireless Edge Ltd. 11 Hamelacha St. Afek Industrial Park Rosh Ha'ayin 48091, Israel Tel: +972-3-9008900 Fax: +972-3-9008901 www.mtiwe.com

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