

Description

The MEA-5G-IMG-AM adhesive mount Antenna is a 5-in-1 low profile antenna solution, with a very high-performance ideal for maintaining constant network connectivity. The MEA-5G-IMG-AM covers all 5GNR, ISM, MIMO, and GPS/GLONASS/QZSS/ Galileo standard frequencies. This is an ideal antenna for telematics systems, remote surveillance, asset tracking and any IOT system applications. The high performance and low profile make this antenna ideal for the most challenging installations. This adhesive mount antenna is easy to install with maximum durability offering IP67 rated housing and anti-rotation mounting. The MEA-5G-IMG-AM have five cables with a SMA-Male standard connectors, 2m standard cable length and is fully customizable by offering additional connector types, cable lengths and cable types.

Electrical Specifications

Parameter	Specifications									
Technologys	5G, 4G, 3G and 2G									
Standards	5GNR/4GLTE/FirstNet/CBRS/LPWA/CAT-X/CAT-Mx/CAT-NBx/NB-IoT/3G2G									
Frequency (MHz)	617-960	1427-2690	3300-5000	5150-5925						
Band MHz	600, 700, 850, 900	1500, 1600, 1700, 1800, 1900, 2000, 2100, 2300, 2500, 2600	3300, 3500, 3600, 3700, 4500	5200, 5500, 5800						
5GNR Bands	n5, n8 ,12, n20, n28, n71, n81, n82, n83,	n1, n2, n3, n7, n25, n34, n38, n39, n40, n41, n50, n51, n66, n70, n74, n75, n76, n80, n84, n86	n77, n78, n79							
4GLTE Bands	85, 86, 88, 812, 813, 814, 817, 818, 819, 820, 826, 827, 828, 829, 844, 867, 868, 871, 885	B1, B2, B3, B4, B7, B9, B10, B11, B21, B23, B24, B25, B30, B32, B33, B34, B35, B36, B37, B38, B39, B40, B41, B45, B50, B51, B65, B66, B69, B70, B74, B75, B76	B22, B42, B43, B48, B49, B52	B46, B47, B252, B255						
3GCELL Bands	B5, B6, B8, B12, B13, B14, B19, B20, B26	B1, B2, B3, B4, B7, B9, B10, B11, B21, B25, B32, B33, B34, B35, B36, B37, B38, B39, B40	B22							
2GCELL Bands	710, 750, 810T, 850, 900P, 900E, 900R	1800DCS, 1900PCS								
CDMACELL Bands	BC0, BC2, BC3, BC7, BC9, BC10, BC12, BC18, BC19	BC1, BC4, BC6, BC8, BC13, BC14, BC15, BC16, BC20, BC21								

Features

- Cable 1 2: 5GNR
 - 617-960 MHz
 - 1427-2690 MHz
 - 3300-5000 MHz
 - 5150-5925 MHz
- Cable 3 4: 2.4/5.0 GHz ISM
 - 2410-2490 MHz
 - 4920-5925 MHz
- Cable 5: GPS/GLONASS/QZSS/Galileo
 1575-1606 MHz
- Adhesive Mount
- High Performance
- Ground Plane Independent
- Customizable Cable and Connector
- Dimensions: 61.8 x 155.6 x 17.0 mm
- IP67, IP69

Applications

- Fleet management
- Commercial transport
- HD video monitoring
- Buses, train & commercial applications
- Smart cities



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Parameter		Specifications								
Frequency Range	617-960MHz	1427-2690MHz	3300-5000MHz	5150-5925MHz						
Return Loss	~-9.1	~-7.0	~-6.9	~-6.7						
VSWR	~2.7:1	~2.9:1	~2.9:1	~3.4:1						
Efficiency (%)	~45.8	~39.6	~32.2	~14.4						
Peak Gain (dBi)	~1.2	~1.3	~0.6	~2.7						
Average Gain (dB)	~-3.4	~-4.2	~-5.0	~-8.6						
Impendance (Ohm)	50									
Polarization		Lin	ear							
Radiation Pattern		Omni-Di	rectional							
Max Input Power		3	5							
Connector Type	:	SMA-Male Standard (Oth	ner Connectors Available	e)						
Cable Length		300 cm Standard (Any	Cable Length Available)							
Cable Type		LL195 Standard (Oth	ner Cables Available)							

	Parameter	Specifications								
	Frequency Range	617-960MHz	1427-2690MHz	3300-5000MHz	5150-5925MHz					
_	Return Loss	~-7.8	~-8.8	~-5.1	~-4.3					
nı	VSWR	~2.7:1	~2.7:1	~3.8:1	~4.2:1					
Antenna	Efficiency (%)	~43.0	~40.0	~25.1	~22.7					
	Peak Gain (dBi)	~0.4	~1.7	~-0.1	~-1.4					
ĸ	Average Gain (dB)	~-3.7	~-4.2	~-6.3	~-6.7					
ole 2 5GNR	Impendance (Ohm)	50								
	Polarization	Linear								
	Radiation Pattern	Omni-Directional								
Cable	Max Input Power	35								
•	Connector Type	SMA-Male Standard (Other Connectors Available)								
	Cable Length	300 cm Standard (Any Cable Length Available)								
	Cable Type	ner Cables Available)								

Parameter	Specifications					
Standards	WiFi, BT, ZigBee, ISM					
Band (MHz)	2.4 GHz	5.0 GHz				
Frequency Range	2410-2490 MHz	4920-5925 MHz				
Return Loss (dB)	~-7.8	~-9.8				
VSWR	~2.4:1	~2.0:1				
Efficiency (%)	~24.3	~47.2				
Peak Gain (dBiC)	~-1.5	~3.8				
Average Gain (dB)	~-6.3	~-3.3				
Impendance (Ohm)	5	50				
Radiation Pattern	Omni-Directional					
Polarisation	Linear					
Max. Input Power (W)	25					
Connector Type	SMA-Male-RP Standard (Other Connectors Available)					
Cable Length	300 cm Standard (Any	Cable Length Available)				
Cable Type	LL195 Standard (Oth	ner Cables Available)				



Parameter	Specifications					
Standards	WiFi, BT, Z	/igBee, ISM				
Band (MHz)	2.4 GHz	5.0 GHz				
Frequency Range	2410-2490 MHz	4920-5925 MHz				
Return Loss (dB)	~-11.6	~-18.3				
VSWR	~1.7:1	~1.4:1				
Efficiency (%)	~39.0	~55.9				
Peak Gain (dBiC)	~0.8	~4.9				
Average Gain (dB)	~-4.3	~-2.6				
Impendance (Ohm)	50					
Radiation Pattern	Omni-Di	irectional				
Polarisation	Lin	ear				
Max. Input Power (W)	2	25				
Connector Type	SMA-Male-RP Standard (C	Other Connectors Available)				
Cable Length	300 cm Standard (Any	Cable Length Available)				
Cable Type	LL195 Standard (Oth	her Cables Available)				

Antenna Measurement Conditions:

Mounted on Plastic Plate of 30 x 30 cm 100 cm of Cable LL195 Measured in Certified CTIA 3D Anechoic Chamber

Parameter	Specifications						
Standards	GPS/QZSS/Galileo	GLONASS					
Band (MHz)	1575 16						
Frequency Range	1575.42 MHz 1598-161						
Return Loss (dB)	<:	=-15 dB					
Patch Size (mm)	25	x 25 x 4					
Impendance (Ohm)	50						
VSWR	<=1.4:1 dB						
Radiation Pattern	Hemispherical						
Polarization	RHCP						
Saw Filter	Pre-Filter						
Active Gain (dB)	28 @ 2.7 V						
Noise Figure (dB)	1.5 Тур						
Voltage (V)	1.5 – 3.6						
Current (mA)	9 Тур						
Power Consumption (mW)	24.3 Тур						
ESD Protection	2kV						
Connector Type	SMA-Male Standard (Other Connectors Available)						
Cable Length	300 cm Standard (Any Cable Length Available)						
Cable Type	LL100 Standard (Other Cables Available)					

Mechanical Specifications

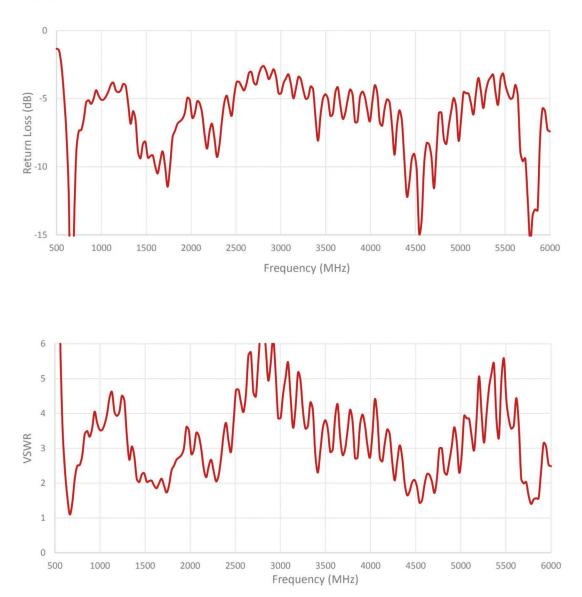
Parameter	Specifications	
Antenna Dimensions (mm)	61.8 x 155.6 x 17.0	
Operating Temperature (C)	-40 to +85	
Storage Temperature (C)	-40 to +85	
Mounting Type	Adhesive Mount	
Substance Compliance	RoHS	
Radome Type/Color	ABS UV Stable/Black	
Certificates	IP67, IP69, CE, Vibration	



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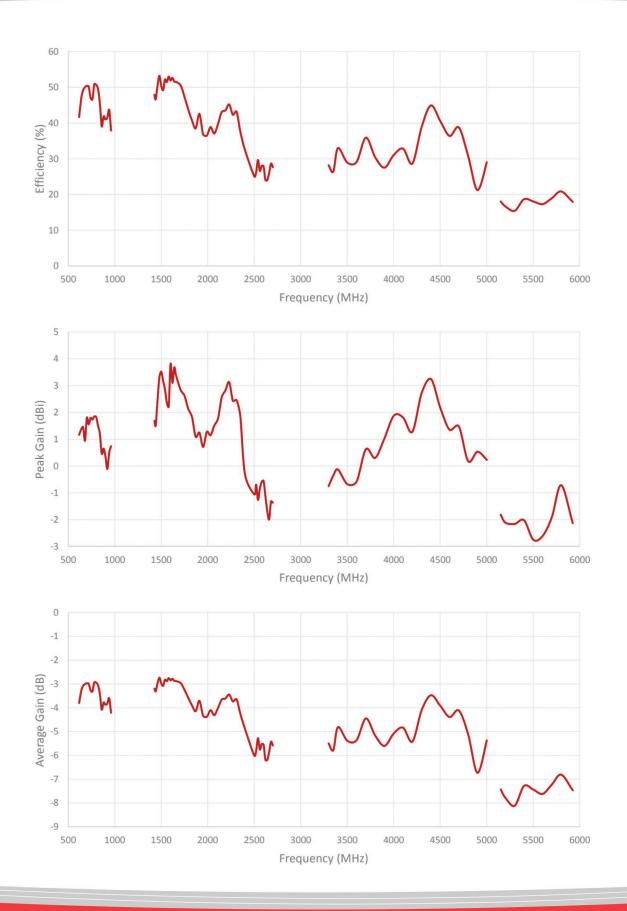
Antenna Parameters

Cable 1: 5GNR



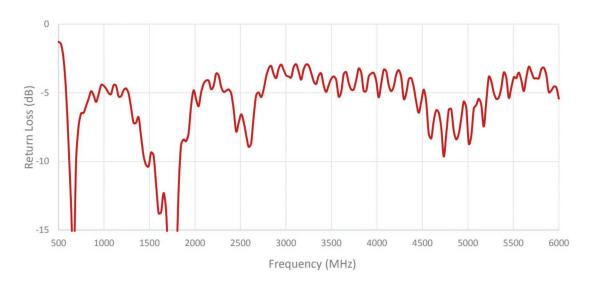


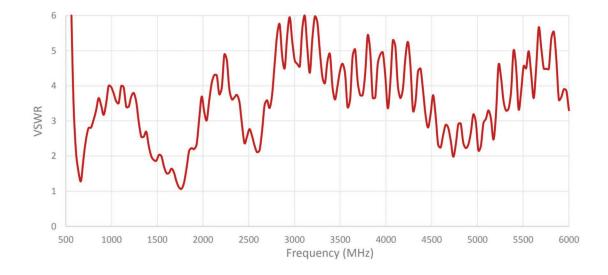
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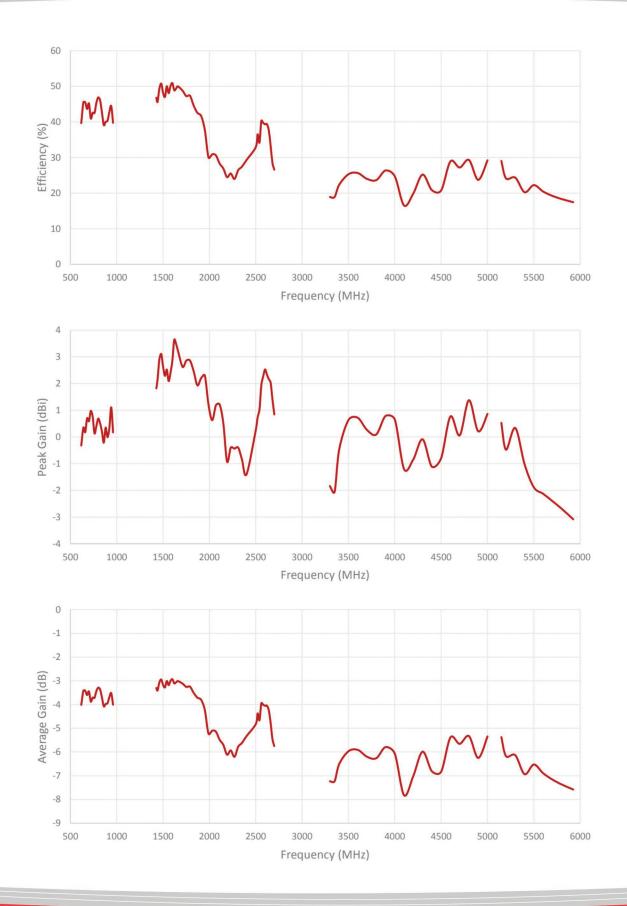






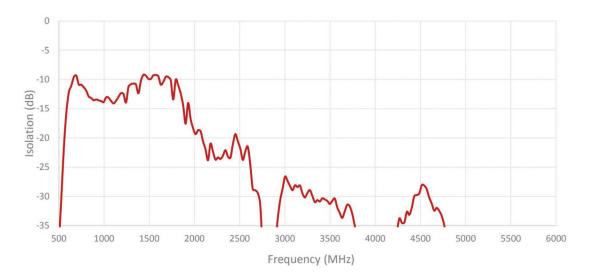




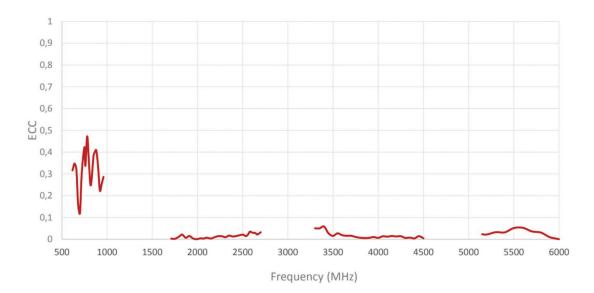




ISOLATION FOR CABLES 1 AND 2



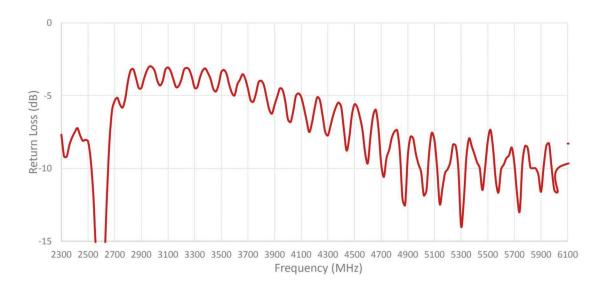
ENVELOPE CORRELATION COEFFICIENT FOR CABLES 1 AND 2

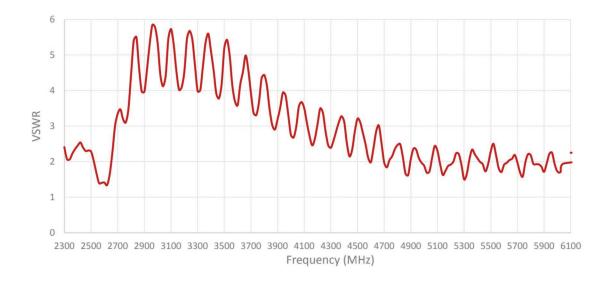




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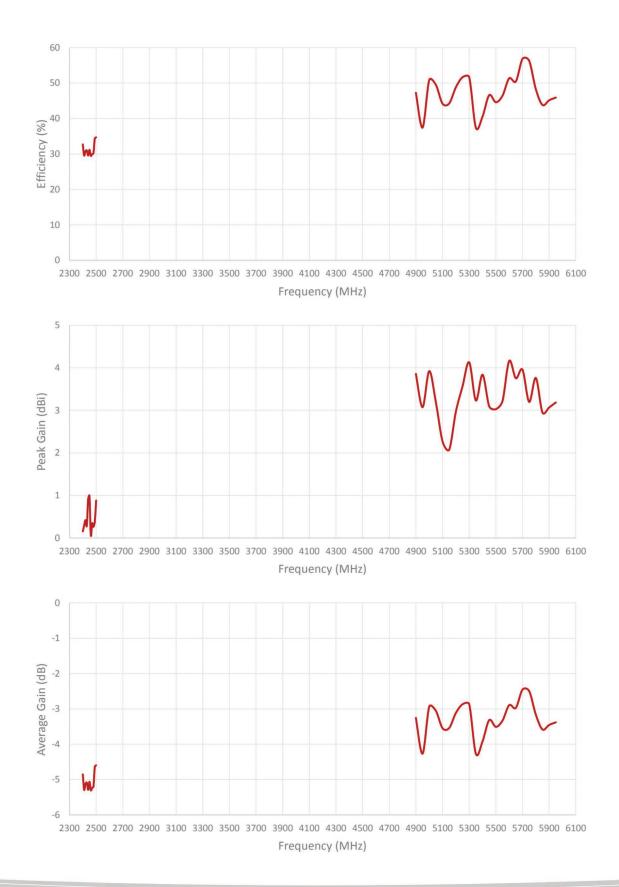
Cable 3: 2.4/5.0 GHz ISM





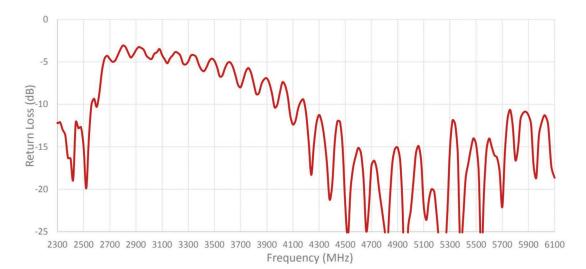


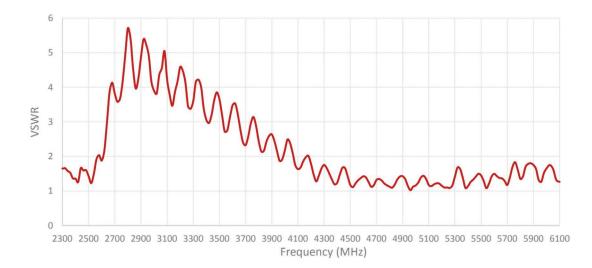
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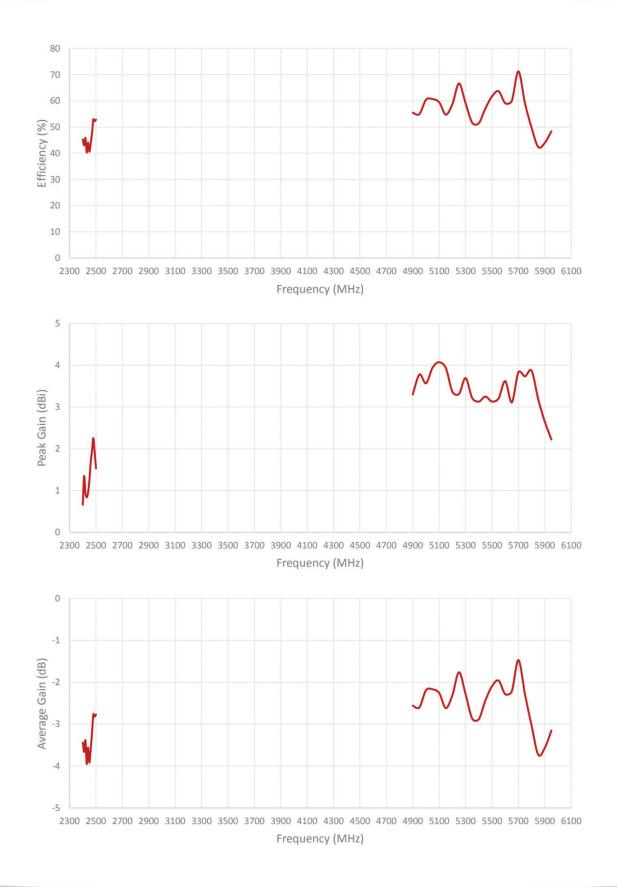






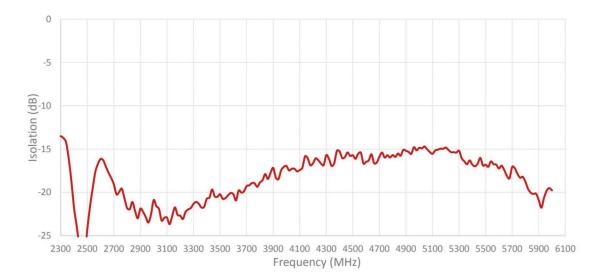




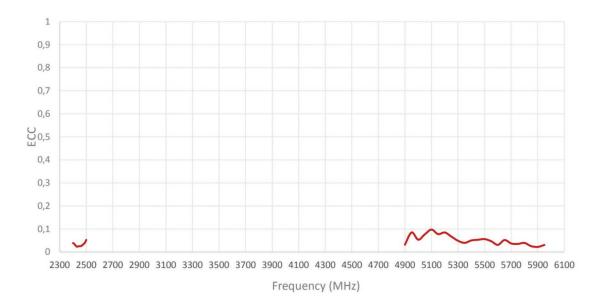




ISOLATION FOR CABLES 3 AND 4



ENVELOPE CORRELATION COEFFICIENT FOR CABLES 3 AND 4





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	8	7	1	6		5	÷	4			3		
C				61.8		CABLE LENGTH							
								NOTES:					
B		155.6 ©©©©© FOAM	STICKE	R				 FREQUENCY: CABLE 1 CABLE 3 CABLE 5 CUSTOMIZABL MOUNTING TY DIMENSIONS A MATERIALS: RADOMI ANTENNA RADOMI OPERATING TE STORAGE TEM CERTIFICATION 	-4: 2.4/5.0 : GPS/GL E CABLE (PE: ADHI ARE AFTE E: ASA UN A BASE: A E COLOR EMPERAT IPERATUR	0 GH2 ONA AND ESIVE R MO V STA ABS R: BLA URE: -40	z ISM (24 SS/Galile CONNE MOUNT DUNTING BLE CK OR V -40°C ~ -)°C ~ +8.	10-2490 / eo/QZSS (CTOR OF VHITE +85°C 5°C	AND 492 (1575-14
								UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN MM	DRAWN	NAME MP	DATE 2024-01-15		
A	ITEM 100-00334-01 RE	EVISION HISTORY	DASH NO		CONFIG CABLE LENGTH	URATION TABLE CONNECTOR TYPE	RADOME COLOR	INTERPRET GEOMETRIC	CHECKED ENG APPR. MFG APPR. Q.A.	AV AV	2024-01-15 2024-01-15	TITLE:	
	REVDESCRIPTIONAINITIAL RELEASE	DATE BY 2024-01-15 MP		CABLE 1-2 : LL195 CABLE 3-4 : LL195 CABLE 5 : LL100		SMA MALE	BLACK	TOLERANCING PER:	CAD MA CHANG INCORP THE DES	ES SHA	ALL BE ED BY	B	WG. NO
	THE INFORMATION CONTAINED IN THIS DRAWIN	IG IS THE SOLE PROPERTY OF MAXTENA, INC	. ANY REPRC	DUCTION IN PART OR AS A WHOLE WITH	OUT THE WRITTEN	PERMISSION OF MAXTENA, INC I		DO NOT SCALE DRAWING				CAGEC	ODE: 5KC

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A INITIAL RELEASE 2024-01-15 MP	D
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800-5000 and 5150-5925 MHz) Nd 4920-5925 MHz) 575-1606 MHz) 10NS	В
MAXTENA, INC	
100-00334-01 MEA-5G-IMG-AM	A
VG. NO. REV 17-00760-01 A DDE: 5KQH7 SCALE: NONE 2 1	