

MP Antenna, LTD. 147 Eady Court Elyria, Ohio 44035

440.387.5968 phone 440.545.3500 fax www.mpantenna.com sales@mpantenna.com

Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi(Dual Band, WiFi 6), 2X Cellular

Electrical Data

Environmental Data

frequency range:	600-6000MHz, 2.4-2.5GHz,	environmental cond.:	Outdoor/Indoor
	4.9-6GHz, GPS	operation temperature:	-40 to 85 deg C
gain:	See Chart	storage temperature:	-40 to 85 deg C
vswr:	See Chart	transport temperature:	-40 to 85 deg C
horizontal pattern type:	Omni Directional	IP Rating:	IP67
vertical patter type:	Hemispheric	Rohs - Reach	Compliant
ground plane:	Built In		

General Data

color:Blackantenna feeds:Fivecoax length:1 ftcoax type:See Drawingconnector type:SMA Male(3x), SMAfemale(2x)Female(2x)polarization:Multi-Polarizedpower:50 Watts Inputimpedance:50 ohms Nominalconstruction:UV Stabilized ASAgasket:Contour Matching, TPEGasketGasket

Mechanical Data

length:	6.1 in
width:	6.1 in
radome height:	4.9 in
total height:	See Drawing
mounting type:	Connector
hardware included:	Nut, Washer

GPS Antenna

frequency band:	1559-1608MHz
amplifier gain:	@3.0 VDC:26dB (typical)
output vswr:	2.0:1 (maximum)
DC voltage:	2.8-6.0 V (operating)
noise figure:	<2.0 dB
out-of-band rejection:	1586 +/- 50MHz >60 dBc
	1586 +/- 60MHz >70 dBc
nominal gain:	3dBic
polarization:	Right Hand Circular
nominal impedance:	50 Ohms



* With built in spatial and polarization diversity, performance in obstructed environments is greater than that of standard antennas with similar or higher laboratory gains.

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	F1 (MHz)	F2 (MHz)	SWR	Max dBi	Typical dB	Range (+/-) dB	Avg Efficenc	Range (+-)	Polarization	Nominal Impedance	Max Power
LTE1											
	617	698	2.8	3.2	2.2	1	30	5	Multi-Polarized	50	50
	733	802	2.4	4.7	3.1	1.6	35	4	Multi-Polarized	50	50
	824	960	1.7	3.3	2.8	0.5	62	8	Multi-Polarized	50	50
	1805	2200	1.7	3.2	2.8	0.6	52	3	Multi-Polarized	50	50
	2300	2690	1.9	3.5	3.1	0.5	47	1	Multi-Polarized	50	50
	3400	3800	2	5.9	3.9	1.6	42	2	Multi-Polarized	50	50
	5150	5950	1.5	7.5	6.3	1.1	60	4	Multi-Polarized	50	50
LTE 2											
	617	698	2.8	4.3	3.1	0.9	30	5	Multi-Polarized	50	50
	698	802	2.4	4.3	3.5	0.5	33	5	Multi-Polarized	50	50
	824	960	1.7	3.2	2.6	0.5	40	2	Multi-Polarized	50	50
	1710	2200	1.7	3.4	3	0.4	63	3	Multi-Polarized	50	50
	2300	2690	1.9	5	3.8	1.5	52	4	Multi-Polarized	50	50
	3400	3800	2	5.5	4.5	1	44	1	Multi-Polarized	50	50
	5150	5950	1.5	7.4	6.2	1.2	63	2	Multi-Polarized	50	50
Wifi											
	2400	2500	1.3	3	2.1	0.9	54	3	Multi-Polarized	50	50
	4900	5900	1.6	4.0*	2.9*	1.2	72	5	Multi-Polarized	50	50
Wifi											
	2400	2500	1.3	3	2.1	0.9	54	3	Multi-Polarized	50	50
	4900	5900	1.6	4.0*	2.6*	1.2	72	5	Multi-Polarized	50	50
				*When conr	nected using a	minimum 12 Feet	of MPA200FX	(coax			

Min. Isolation (dB):

		· · /			
	LTE 1	-2	Wifi (3,4)		
LTE (1,2)	617-960 MHz	7.8	617-960 MHz	23	
	1.71-2.7 GHz	14.3	1.71-2.7 GHz	12.1	
	3.3-5.9 GHz	22.4	3.3-5.9 GHz	23.4	
Wifi (3-4)			2.4-2.5 GHz	-16.1	
			4.9-6.0 GHz	-23.4	

Iinimum Mounting					∇				
Hole Diameter	Max Mou Hole Diai	-	Max Mo Surface T		Color				
0.76 Inches	1.0 Inc	hes	0.5 In	iches	Black	ζ		\frown	
					mp#		~ Ø6.1		
			4.1 0.9				— 200 Series Coax (Unless N See Table for Feed Numbe	oted in Table) r, Lengths,	Ą
Feed Number	Freque	ncv	Lenath	of Coax	Connec	tor			
1					ies Coax) SMA Male (Cut Nut Included SMA Female				
2	Dual Band, 2.4 GH	Iz 4.9-6 GHz	1 F	oot					
3	Dual Band, 2.4 GH	Iz 4.9-6 GHz	1 F	oot			-		
4	600-6000) MHz	1 Foot		SMA Male		-		
5	600-6000) MHz	1 F	oot	SMA M	ale	-		
MP ANTENNA, LTD. 147 Eady Court Elyria, Ohio 44035 www.mpantenna.com		AME DAT	E	THE INFORMATION DRAWING IS THE S ANTENNA, LTD. AN PART OR AS A WH WRITTEN PERMISS	N CONTAINED IN THIS SOLE PROPERTY OF MP IY REPRODUCTION IN OLE WITHOUT THE SION OF MP ANTENNA			PART NO. 08-ANT-1117-5X-BCCBB1	
	0.76 Inches Feed Number 1 2 3 4 5 MP ANTENNA, LTD. 147 Eady Court Elyria, Ohio 44035	0.76 Inches 1.0 Inc 0.76 Inches 1.0 Inc Image: Stress of the stress o	0.76 Inches 1.0 Inches 0.76 Inches 1.0 Inches Second Se	0.76 Inches 1.0 Inches 0.5 In 0.76 Inches 1.0 Inches 0.5 In 4.1 4.1 4.1 4.1 4.1 4.1 0.9 1 0.9 1 GPS 1 Foot (100 Stress) 2 Dual Band, 2.4 GHz 4.9-6 GHz 1 Ford (100 Stress) 3 Dual Band, 2.4 GHz 4.9-6 GHz 1 Frequency 4 600-6000 MHz 1 Frequency	0.76 Inches 1.0 Inches 0.5 Inches 0.76 Inches 1.0 Inches 0.5 Inches 0.76 Inches 0.5 Inches 0.5 Inches 0.76 Inches 0.76 Inches 0.76 Inches 0.76 Inches 0.77 Inches 0.77 Inches 0.77 Inches 0.77 Inches 0.77 Inches Feed Number Frequency Length of Coax 1 GPS 1 Foot (100 Series Coax) 2 Dual Band, 2.4 GHz 4.9-6 GHz 1 Foot 3 Dual Band, 2.4 GHz 4.9-6 GHz 1 Foot 4 600-6000 MHz 1 Foot 5 600-6000 MHz 1 Foot 147 Eady Court Inches Inches Internormation Inches Inches MP ANTENNA, LTD. Internormation Internormation 147 Eady Court Internormation Internormation Internormation Internormation Internormation Internormation Inte	0.76 Inches 1.0 Inches 0.5 Inches Black 1 0.9 1.0 Inches 0.9 1 GPS 1 Foot (100 Series Coax) SMA M 2 Dual Band, 2.4 GHz 4.9-6 GHz 1 Foot SMA Fer 3 Dual Band, 2.4 GHz 4.9-6 GHz 1 Foot SMA M 5 600-6000 MHz 1 Foot SMA M 5 MOLE DMENSIONS ARE IN INCHES PROPRIETARY AND CONFIDENTIAL THEND SA WHEED WHEND IN THE WWW TOBARTENNAL DITAL NAME DATE PROPRIETARS ON OF MFA MEED IN THE	0.76 Inches 1.0 Inches 0.5 Inches Black Image: Constraint of the second	0.76 Inches 1.0 Inches 0.5 Inches Black 0.76 Inches 0.9 0.1 0.1 1 0.9 0.9 0.9 0.9 200 Series Coax (Unless N) See Table for Feed Number Connectors, and Frequency Note: Mounting Hardware Connectors, and Frequency 1 GPS 1 Foot (100 Series Coax) SMA Male 2 Dual Band, 24 GHz 49.6 GHz 1 Foot SMA Female 3 Dual Band, 24 GHz 49.6 GHz 1 Foot SMA Female 4 600-6000 MHz 1 Foot SMA Male 5 600-6000 MHz 1 Foot SMA Male 147 Eddy Count Environments of SMA Male Inches NMA Series NMA Male MPP ANTENNA, LTD. TAVELE N MCNESS MAR Male NMA Male MP ANTENNA, LTD. Inches NAM Series Norther Series Nort	0.76 Inches 1.0 Inches 0.5 Inches Black 0.76 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.76 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.76 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 0.6 Inches 1 0.8 Inches 1 Foot (100 Barries Coax) SMA Male Note: Mounting Hardware Cut Nut and Cut Washer) Included 1 1 Included 1 Foot SMA Female Note: Mounting Hardware Cut Nut and Cut Washer) Included 1 1 Foot (100 Barries Coax) SMA Male Description Coax Inches Part NO. 3 0 Gut Saud 4.9 G dut 1 Foot SMA Male Description Coax Inches Part NO. Death 1117-5X-BCCBB1



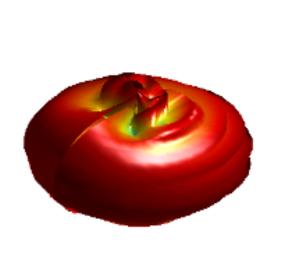
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Part Number: 08-ANT-1117-SF-BCCBB1

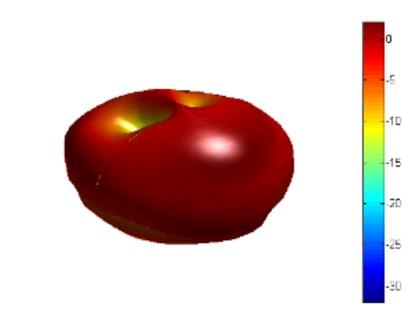
model number: 08-ANT-1117-SF product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 2.48 GHz WiFi 1



-5 -10 -15 -20 -25 -30 -35 -40

Frequency: 2.48 GHz WiFi 2



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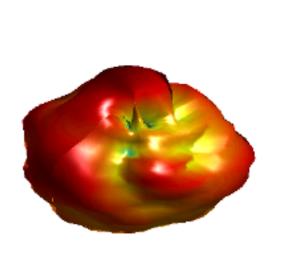
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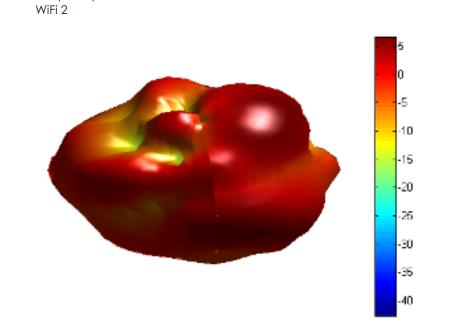
Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 5.2 GHz WiFi 1



5 -0 -5 -10 -15 -20 -25 -30



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Frequency: 5.2 GHz



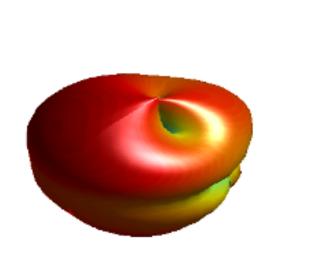
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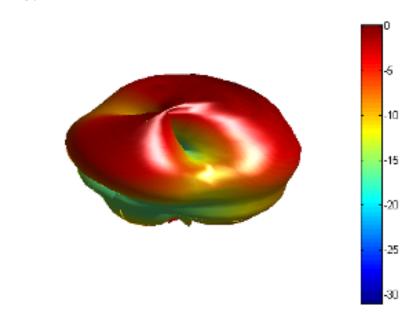
model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 654 MHz Cell 1



-5 -10 -15 -20-25 -30 -35 -40

Frequency: 654 MHz Cell 2



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Frequency: 762 MHz

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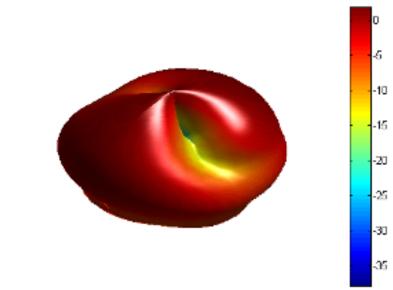
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Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Cell 1 Cell 2





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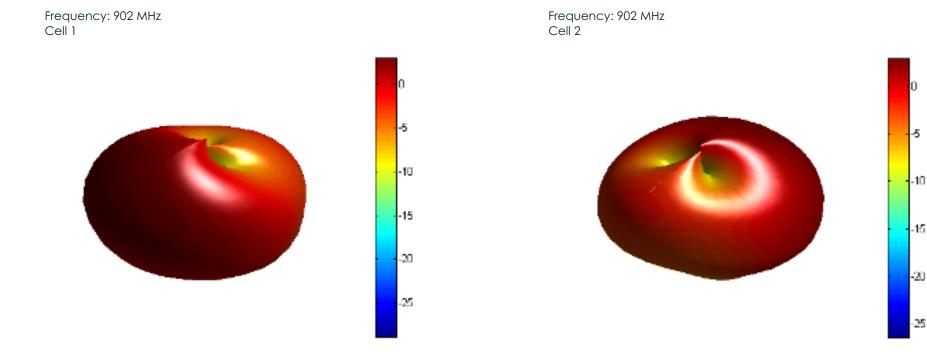
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Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular



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Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 2 GHz Cell 2 Frequency: 2 GHz Cell 2 Cell 2

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Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 2.5 GHz Cell 1



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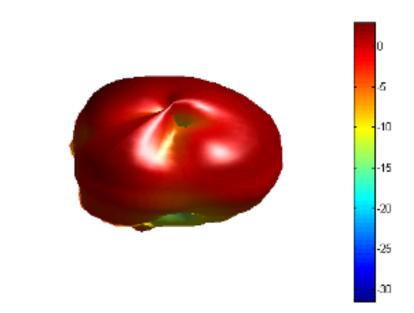
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-20-25

-30 -35

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45 -60 Frequency: 2.5 GHz Cell 2



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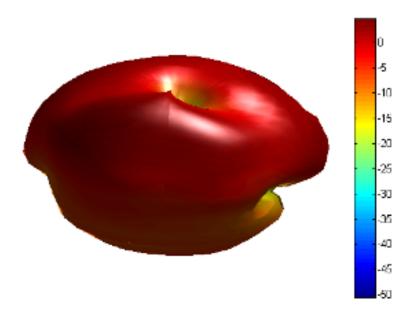
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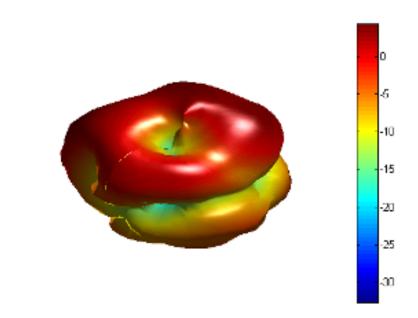
Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular

Frequency: 3.6 GHz Cell 1



Frequency: 3.6 GHz Cell 2



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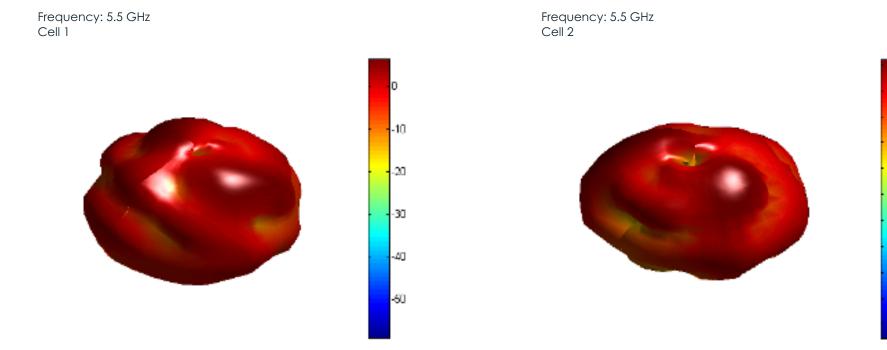
25 30

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-40 -45

Part Number: 08-ANT-1117-5X-BCCBB1

model number: 08-ANT-1117 product description: 1X GPS, 2X WiFi (Dual Band, WiFi 6), 2X Cellular



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