

Vehicle Locating Small GPS/LTE MiMO Antenna

MODEL: GAF-60

Permanent Mount Antenna/ Drills a hole fixed



1. GENERAL DESCRIPTION

Model No
GAF60-3M-SMA(M)

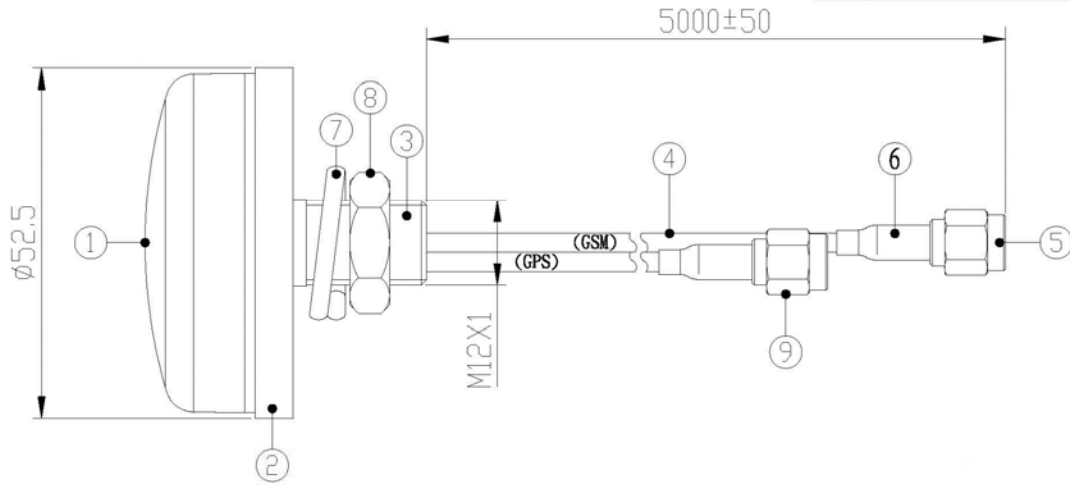
1.1 Electrical Properties

Parameter	Description	
Frequency Band	GPS	LTE
	1575.42Mhz	690~960/1710~2700MHz
Nominal Impedance	50 ohm	50 ohm
VSWR	2.0:1	2.5:1
Antenna Peak Gain	28+/-4db	0db
Voltages	2.5~5.5v	x

1.2 Mechanical Properties

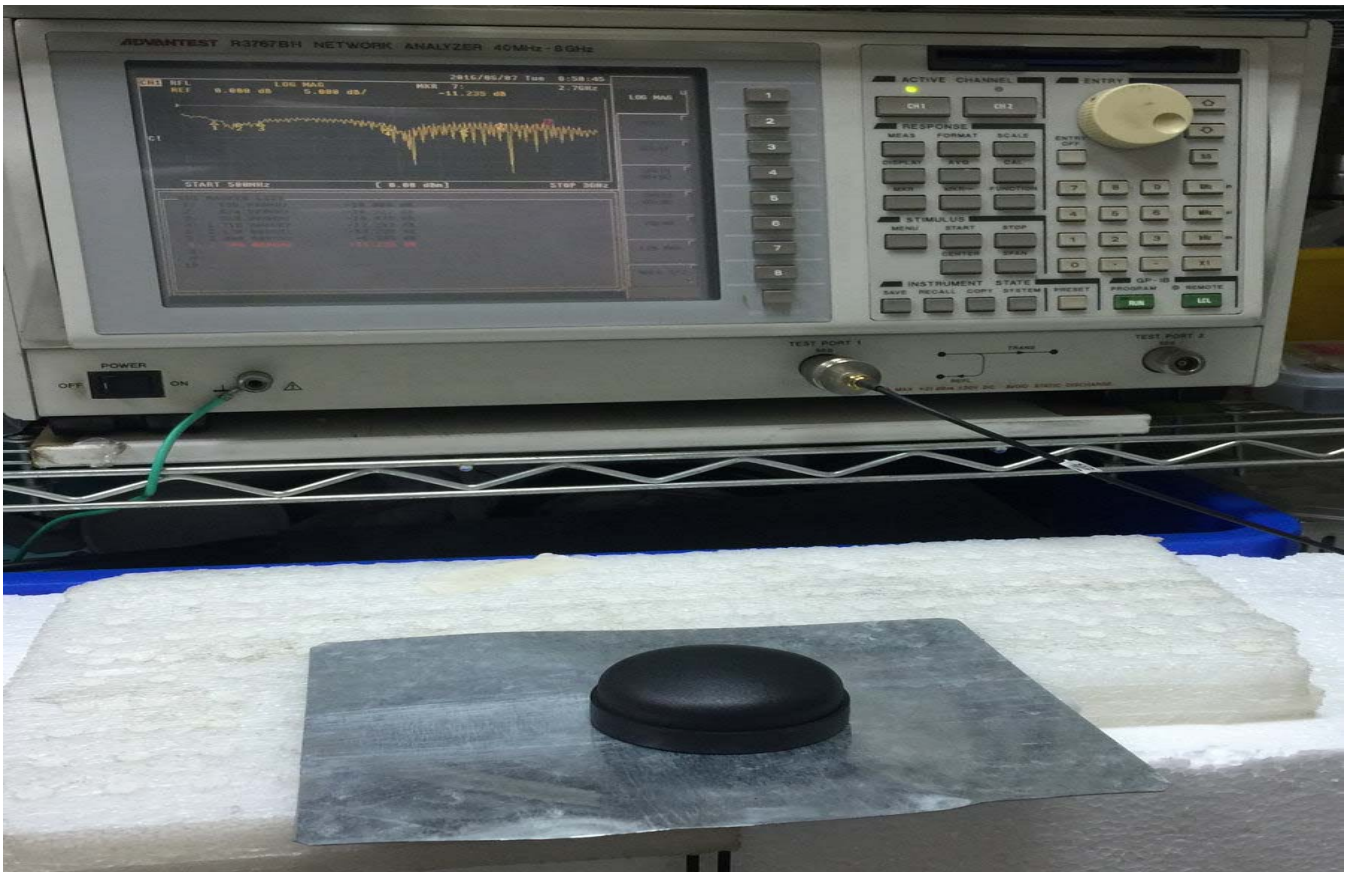
Parameter	Description
Connector Type	SMA180 ° (Male) x 2
Antenna Dimensions	φ52.5
Antenna Cable Total Length	RG-174 -3000mm ± 50 (-40~105°C) x 2
Antenna Material & Color	ABS PA777D / Black
Operating Temperature Range	-30°C~+70°C
Storage Temperature Range	-30°C~+70°C
Waterproof	IPX8

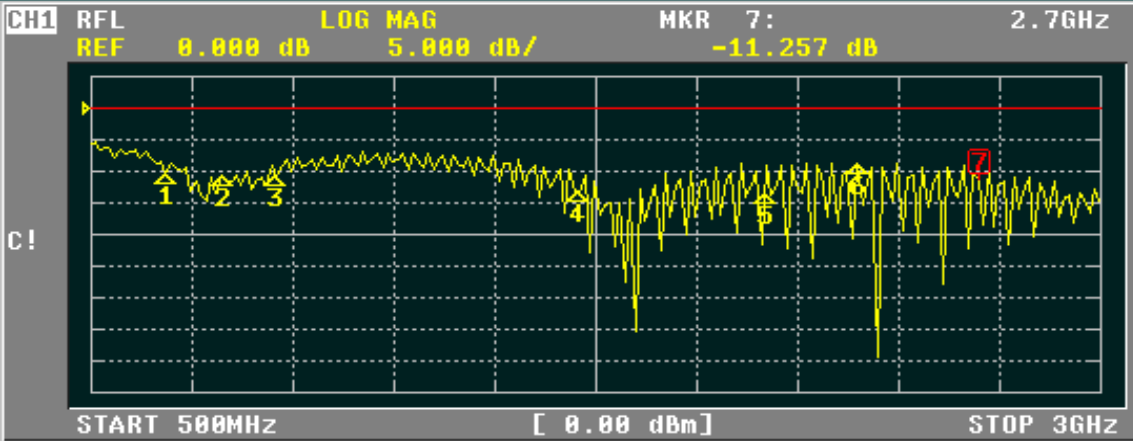
NO.	NAME	FINISH	Q, TY
01	Top cap	Black	01
02	Base	Black	01
03	Screw set	Nickel plating	01
04	RG-174 A/U Cable	Black	02
05	SMA 180*(Male)(GSM)	Nickel plating	01
06	Heat-shrink tube	Black	01
07	Washer	Nickel plating	01
08	Nut hexagonal	Nickel plating	01
09	SMA 180*(Male)(GPS)	Golden plating	01



CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
			GPS/3G,LTE	M/M		20160607	1
TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
SURFACE ROUGHNESS	\sqrt{S}	APPEARANCE	GAF-60				

Test on : 150x150 GND





CH1 MARKER LIST

1:	690.000MHz	-10.064 dB
2:	824.000MHz	-10.950 dB
3:	960.000MHz	-10.482 dB
4:	1.710 000GHz	-13.289 dB
5:	2.170 000GHz	-14.151 dB
6:	2.400 000GHz	-8.875 dB
7:	2.700 000GHz	-11.257 dB
8:		
9:		
10:		

FORMAT

LOG MAG

PHASE

DELAY

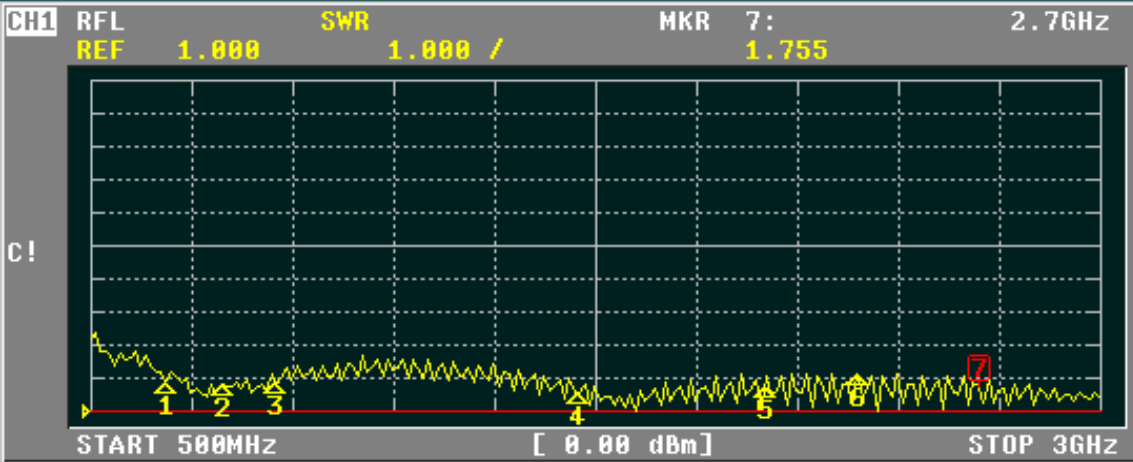
SMITH (R+jX)

SMITH (G+jB)

POLAR

LIN MAG

More 1/2



CH1 MARKER LIST

1:	690.000MHz	1.924
2:	824.000MHz	1.804
3:	960.000MHz	1.868
4:	1.710 000GHz	1.561
5:	2.170 000GHz	1.714
6:	2.400 000GHz	2.121
7:	2.700 000GHz	1.755
8:		
9:		
10:		

FORMAT

SWR

REAL

IMAG

PHASE -90, +90

LOG MAG & PHASE

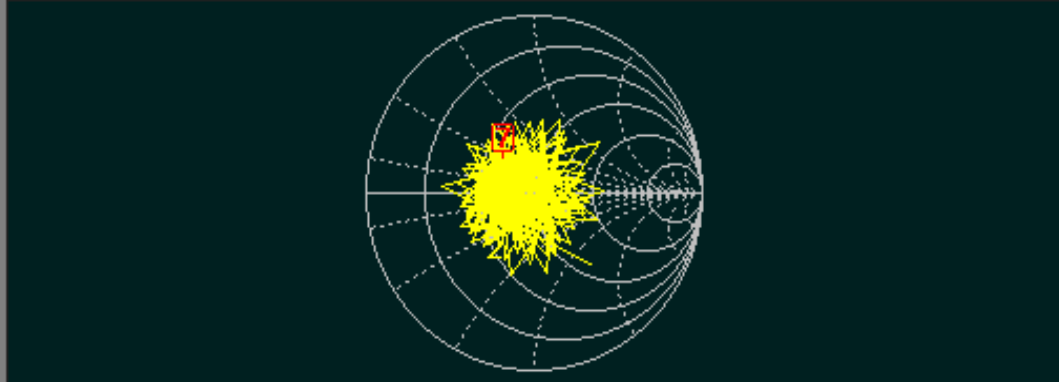
LOG MAG & DELAY

LIN MAG & PHASE

More 2/2

CH1 RFL SMITH(R+jX) MKR 7: 2.7GHz
 FS 1.000 31.777 Ω 13.351 Ω

C!



START 500MHz [0.00 dBm] STOP 3GHz

CH1 MARKER LIST

1:	690.000MHz	72.445 Ω	76.584mΩ	17.664pH
2:	824.000MHz	31.728 Ω	-10.218 Ω	18.901pF
3:	960.000MHz	51.818 Ω	19.512 Ω	3.234nH
4:	1.710 000GHz	41.156 Ω	-8.292 Ω	11.224pF
5:	2.170 000GHz	34.233 Ω	-2.357 Ω	31.108pF
6:	2.400 000GHz	23.567 Ω	704.043mΩ	46.688pH
7:	2.700 000GHz	31.777 Ω	13.351 Ω	787.003pH
8:				
9:				
10:				

FORMAT

LOG MAG ^{1/}

PHASE ^{2/}

DELAY ^{3/}

SMITH (R+jX) ^{4/}

SMITH (G+jB) ^{5/}

POLAR ^{6/}

LIN MAG ^{7/}

More 1/2 ^{8/}

