

INTRODUCTION

1. GENERAL DESCRIPTION

AIR WAVE P/N
MA-76A-1

1.1 Electrical Properties

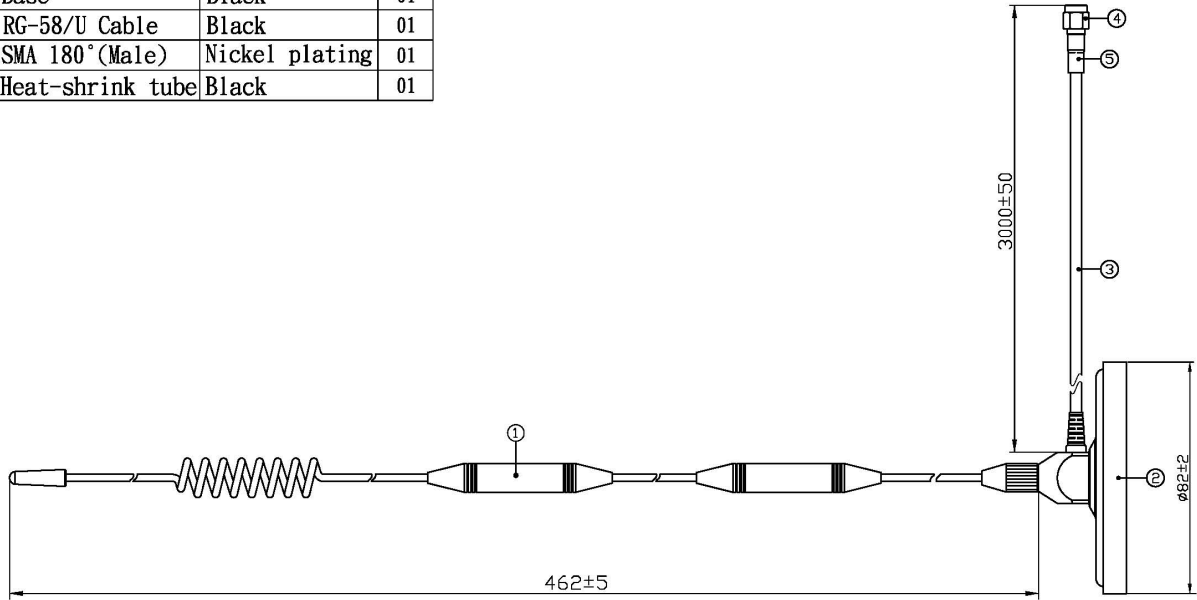
Parameter	Description
Frequency Band	800/900/1800/1900/2100 MHz(13dBi)
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.3 : 1





1.2 Mechanical Properties

Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 180° (Male)
Antenna Dimensions	462 mm ±5
Antenna Cable Total Length	RG-58/U-3000mm ±50
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

2. Appearance

NO.	NAME	FINISH	Q, TY
01	Whip	Black	01
02	Base	Black	01
03	RG-58/U Cable	Black	01
04	SMA 180° (Male)	Nickel plating	01
05	Heat-shrink tube	Black	01



 Third angle projection		CUSTOMER'S	MODEL	FREQUENCY		UNIT	SCALE	DATE	VERSION
						800/900/1800/1900/2100MHz(13dBi)		M/M	
 晟輝科技股份有限公司 AIR WAVE CO., LTD.	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED	
	SURFACE ROUGHNESS		APPEARANCE	MA-76A-1					

3. Return Loss, V.S.W.R. and Smith Chart

S11 FORWARD REFLECTION
CHN1

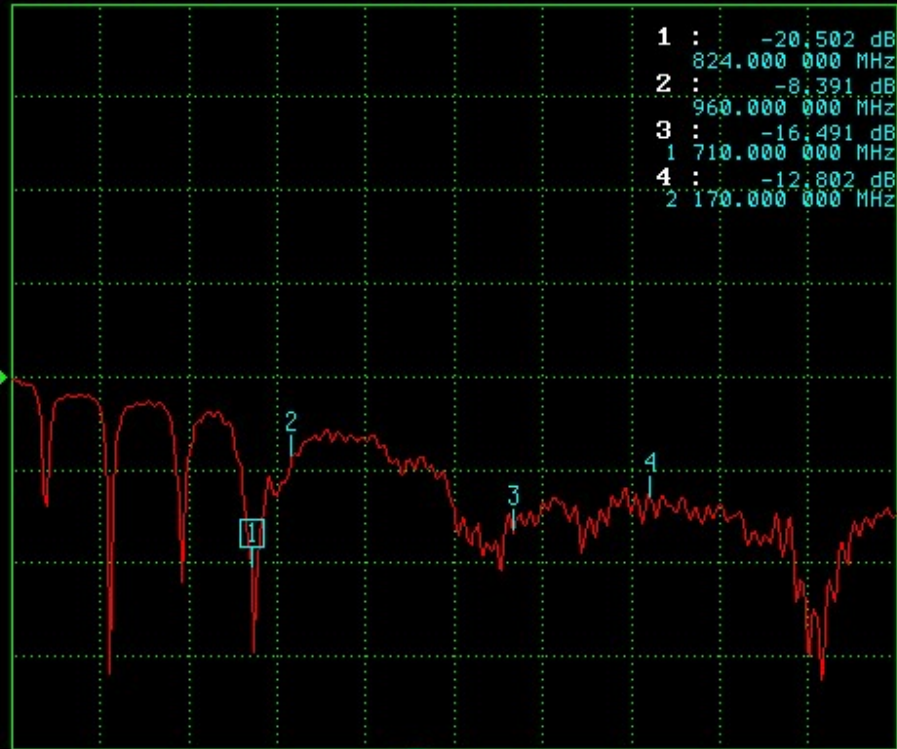
TRANSMISSION/REFLECTION

CH 1 - S11
REFERENCE PLANE
0.0000 mm

LOG MAGNITUDE

REF=0.000 dB

10.000 dB/DIV



1 : -20.502 dB
824.000 000 MHz
2 : -8.391 dB
960.000 000 MHz
3 : -16.491 dB
1 710.000 000 MHz
4 : -12.802 dB
2 170.000 000 MHz

1: 824.000000 MHz
-20.502 dB
2: 960.000000 MHz
-8.391 dB
3: 1.710000000 GHz
-16.491 dB
4: 2.170000000 GHz
-12.802 dB

MARKER TO PEAK

MORE

10.000 000 MHz

3 000.000 000 MHz

S11 FORWARD REFLECTION
CHN1

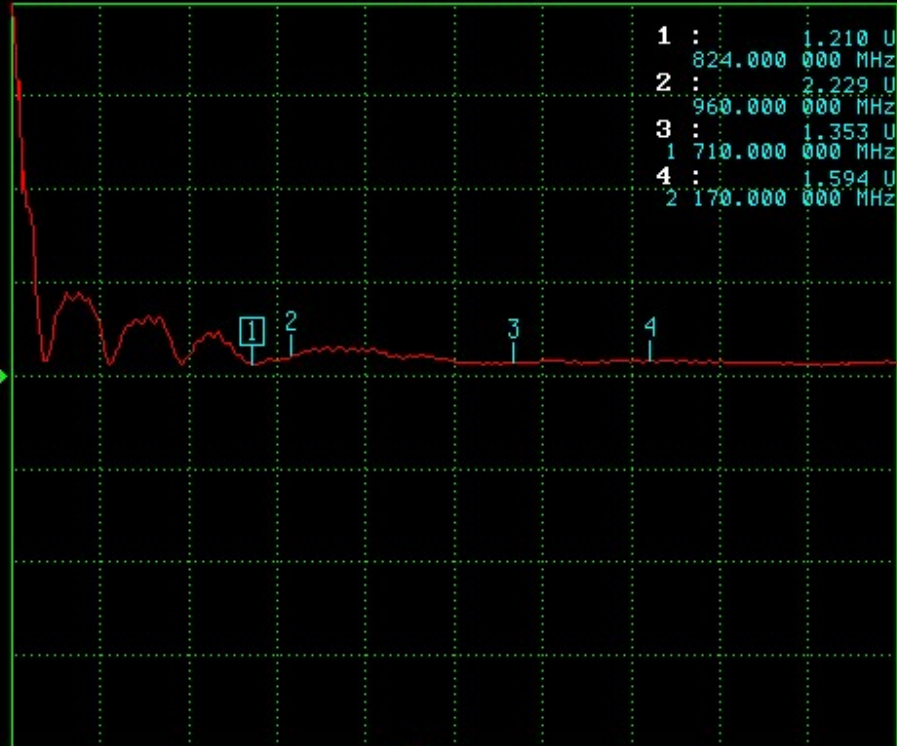
TRANSMISSION/REFLECTION

CH 1 - S11
REFERENCE PLANE
0.0000 mm

SWR

REF=0.000 pU

10.000 U/DIV



1 :	1.210 U
	824.000 000 MHz
2 :	2.229 U
	960.000 000 MHz
3 :	1.353 U
	1 710.000 000 MHz
4 :	1.594 U
	2 170.000 000 MHz

1:	824.0000000 MHz	1.210 U
2:	960.0000000 MHz	2.229 U
3:	1.710000000 GHz	1.353 U
4:	2.170000000 GHz	1.594 U

MARKER TO PEAK

MORE

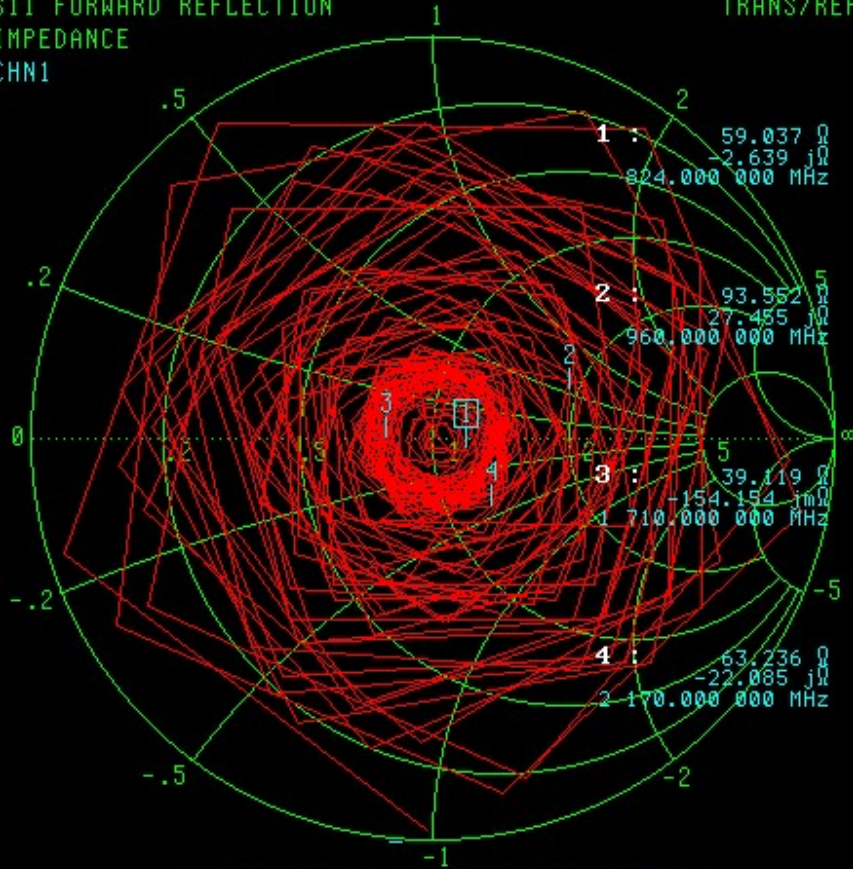
10.000 000 MHz

3 000.000 000 MHz

S11 FORWARD REFLECTION
IMPEDANCE
CHN1

TRANS/REFL

CH 1 - S11
REFERENCE PLANE
0.0000 mm



- 1: 824.000000 MHz
59.037 Ω
-2.639 $j\Omega$
- 2: 960.000000 MHz
93.552 Ω
27.455 $j\Omega$
- 3: 1.71000000 GHz
39.119 Ω
-154.154 $j\Omega$
- 4: 2.17000000 GHz
63.236 Ω
-22.085 $j\Omega$

MARKER TO PEAK

MORE

10.000 000 MHz - 3 000.000 000 MHz