

Yagi UHF ANTENNA

MODEL: YGA-420



1. GENERAL DESCRIPTION

Model No
YGA-420

Below is a table summarizing the antenna design specification.

1.1 Electrical Properties

Parameter	Description
Frequency Band	380~460 MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Note: Gain includes the cable loss	

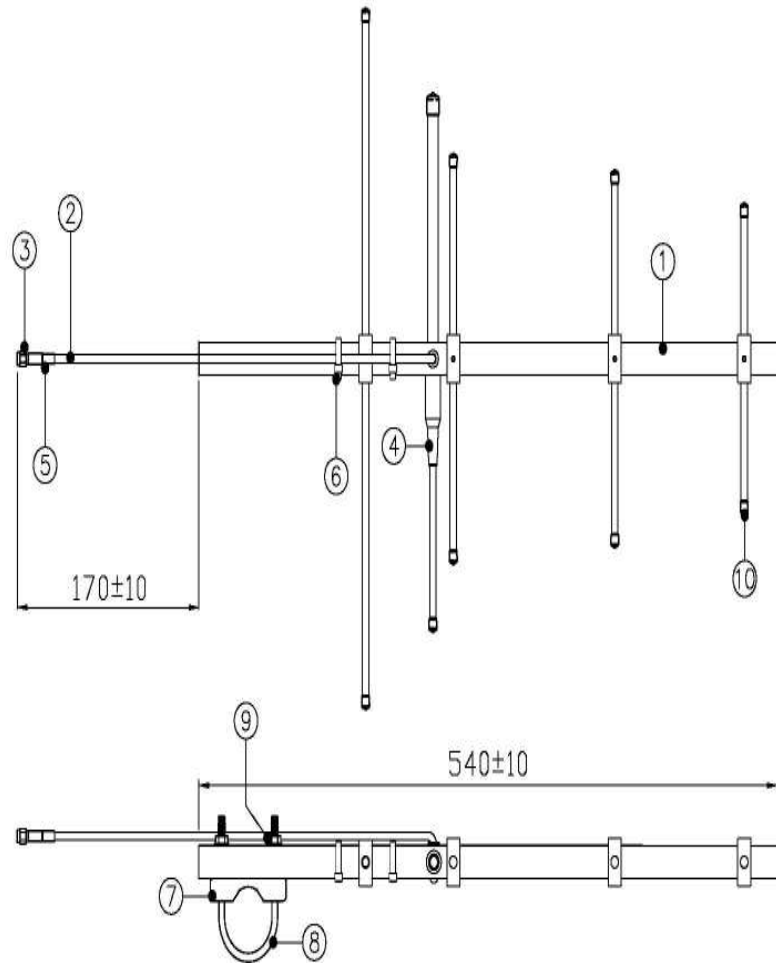
1.2 Mechanical Properties


Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 180° (Male)

Antenna Dimensions	540 mm ±10
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

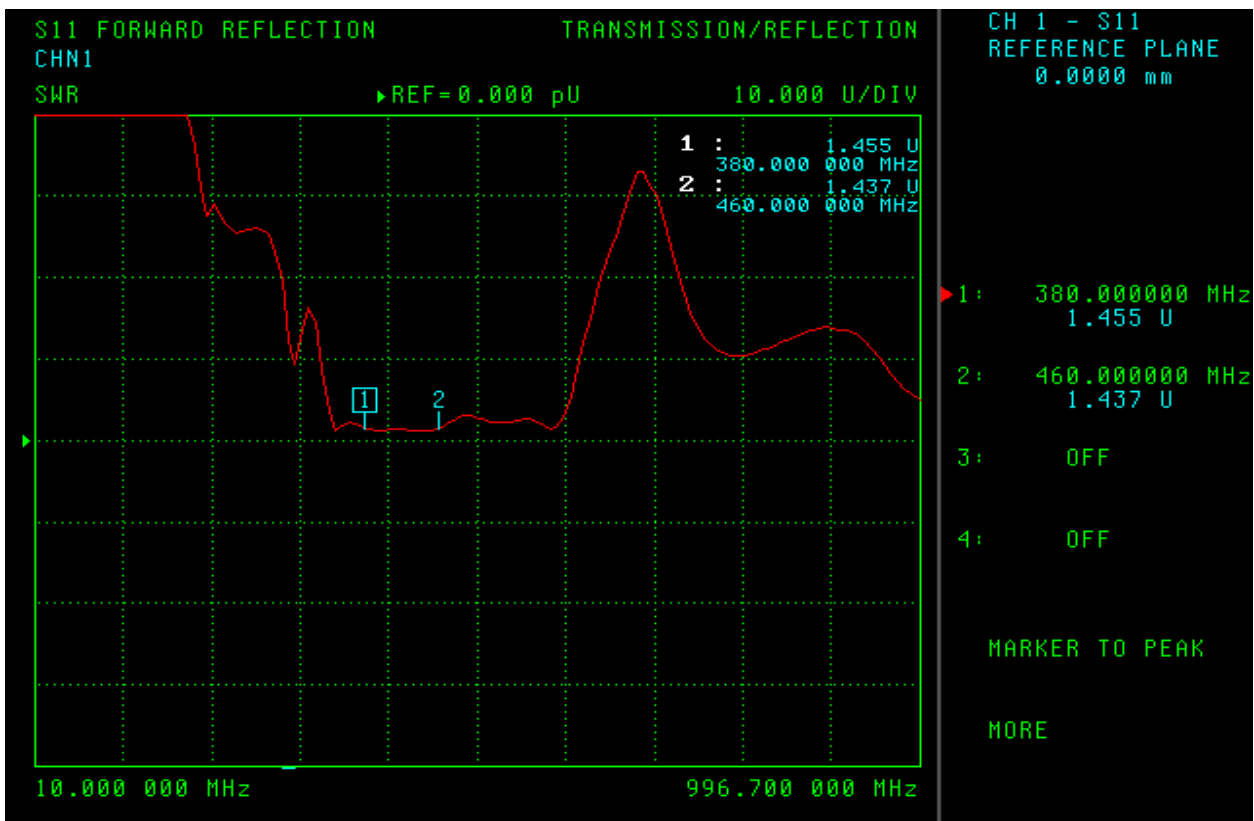
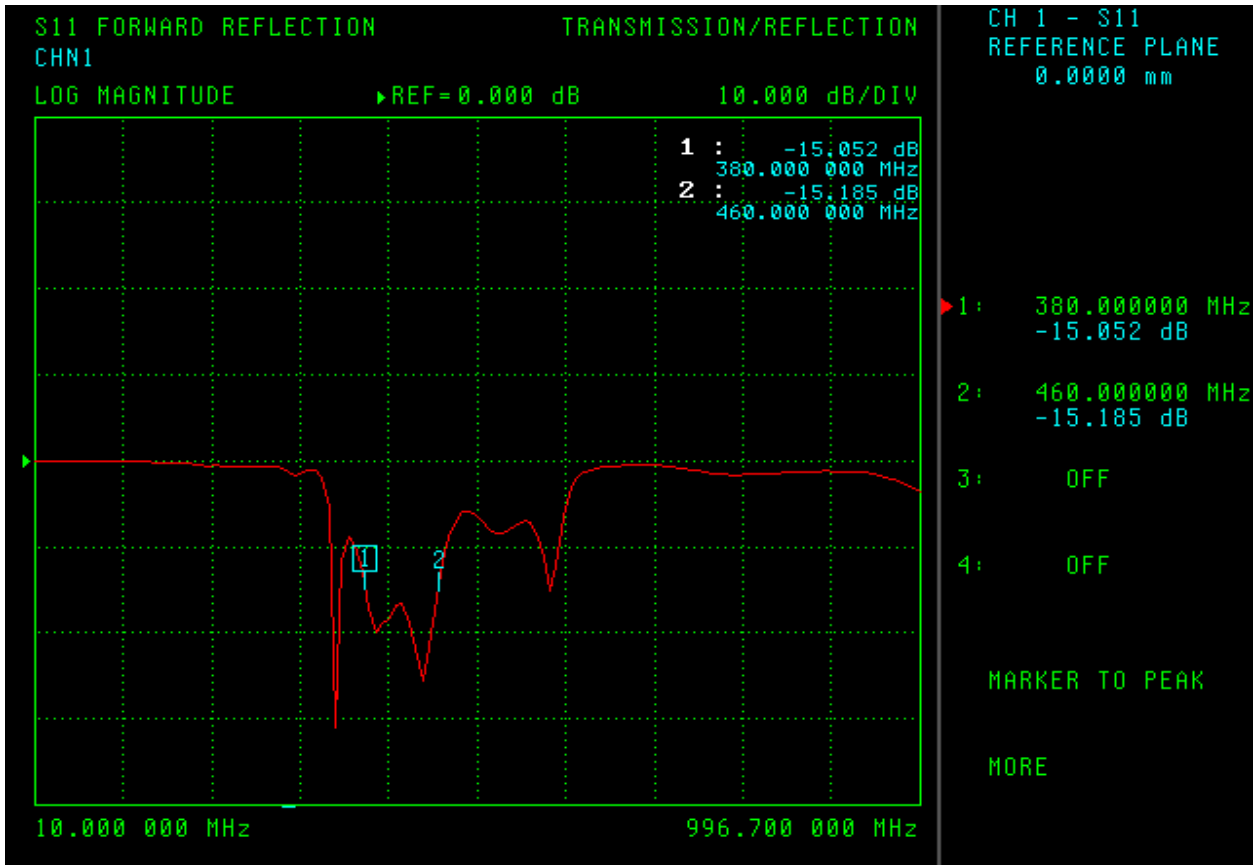
2. Appearance

NO.	NAME	FINISH	Q, TY
01	Body		01
02	RG-58/U Cable	Black	01
03	SMA 180°(Male)	Golden plating	01
04	Core tube	Black	01
05	Heat-shrink tube	Black	01
06	Clip wire	White	02
07	Clip retaining	Nickel plating	01
08	U-Circlip	Nickel plating	01
09	Hexagonal nut	Nickel plating	02
10	Top cap	Black	10



 Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
					380~460MHz	M/M		20101022
	TOLERANCE	X. XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	$\frac{S}{\sqrt{\nabla}}$	APPEARANCE					

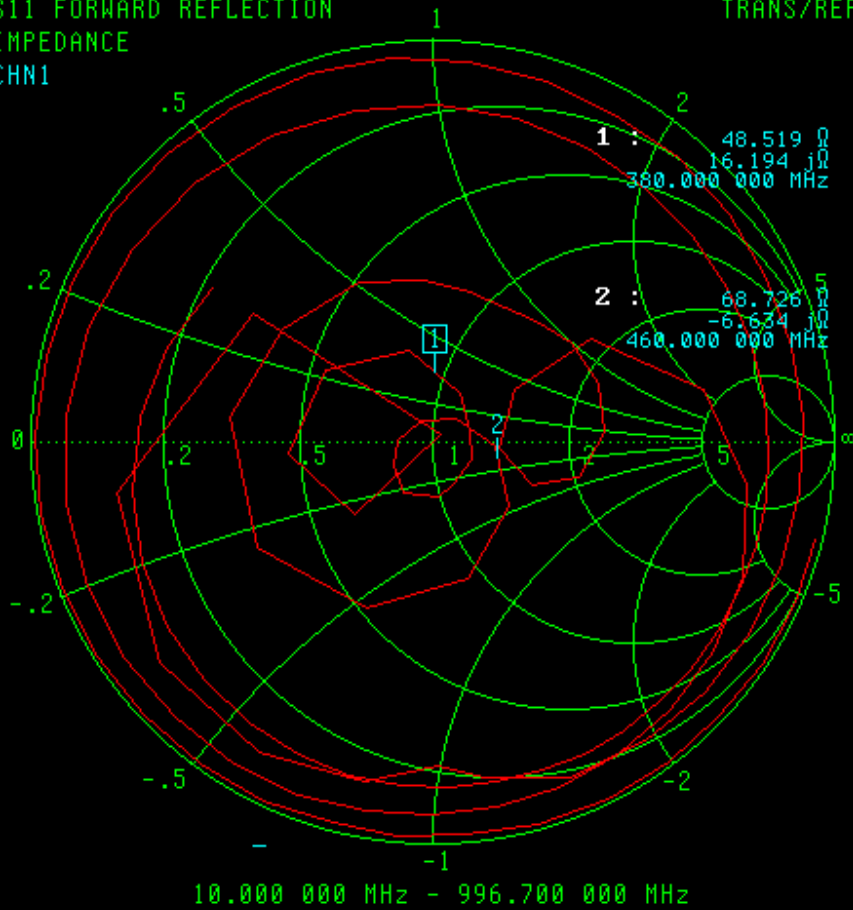
3. Return Loss, V.S.W.R. and Smith Chart



S11 FORWARD REFLECTION
IMPEDANCE
CHN1

TRANS/REFL

CH 1 - S11
REFERENCE PLANE
0.0000 mm



1: 380.000000 MHz
48.519 Ω
16.194 $j\Omega$
2: 460.000000 MHz
68.726 Ω
-6.634 $j\Omega$
3: OFF
4: OFF
MARKER TO PEAK
MORE