

Home safety system VHF Antenna

Model: TH-152



1. GENERAL DESCRIPTION

Model No

Below is a table summarizing the antenna design specification.

1.1 Electrical Properties

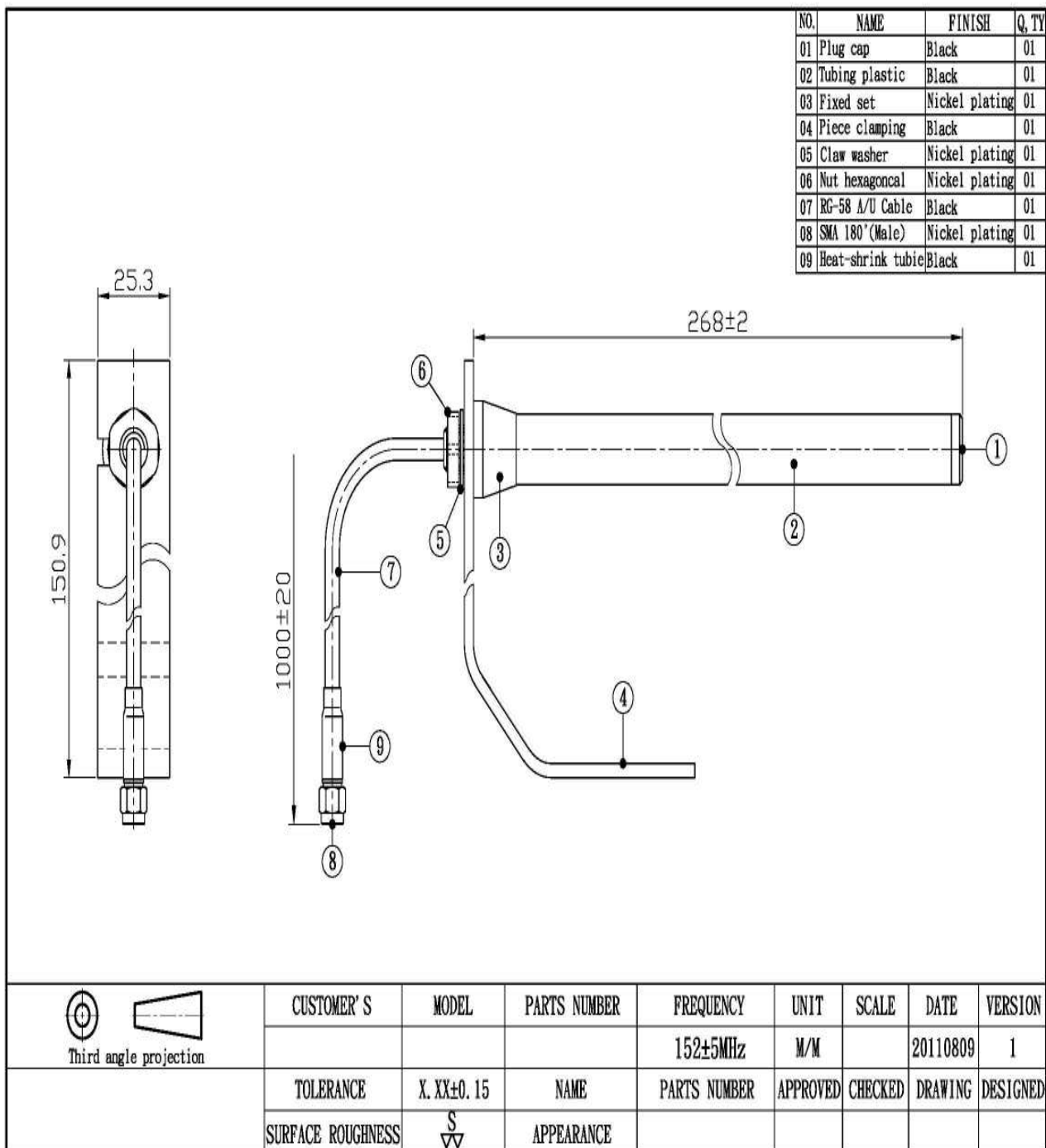
Parameter	Description
Frequency Band	152±5MHz
Nominal Impedance	50 ohm
Polarization	Vertical
Return Loss	Please See Data-1
V.S.W.R	2.0:1
Gain	2~3dbi
Note: Gain includes the cable loss	

1.2 Mechanical Properties

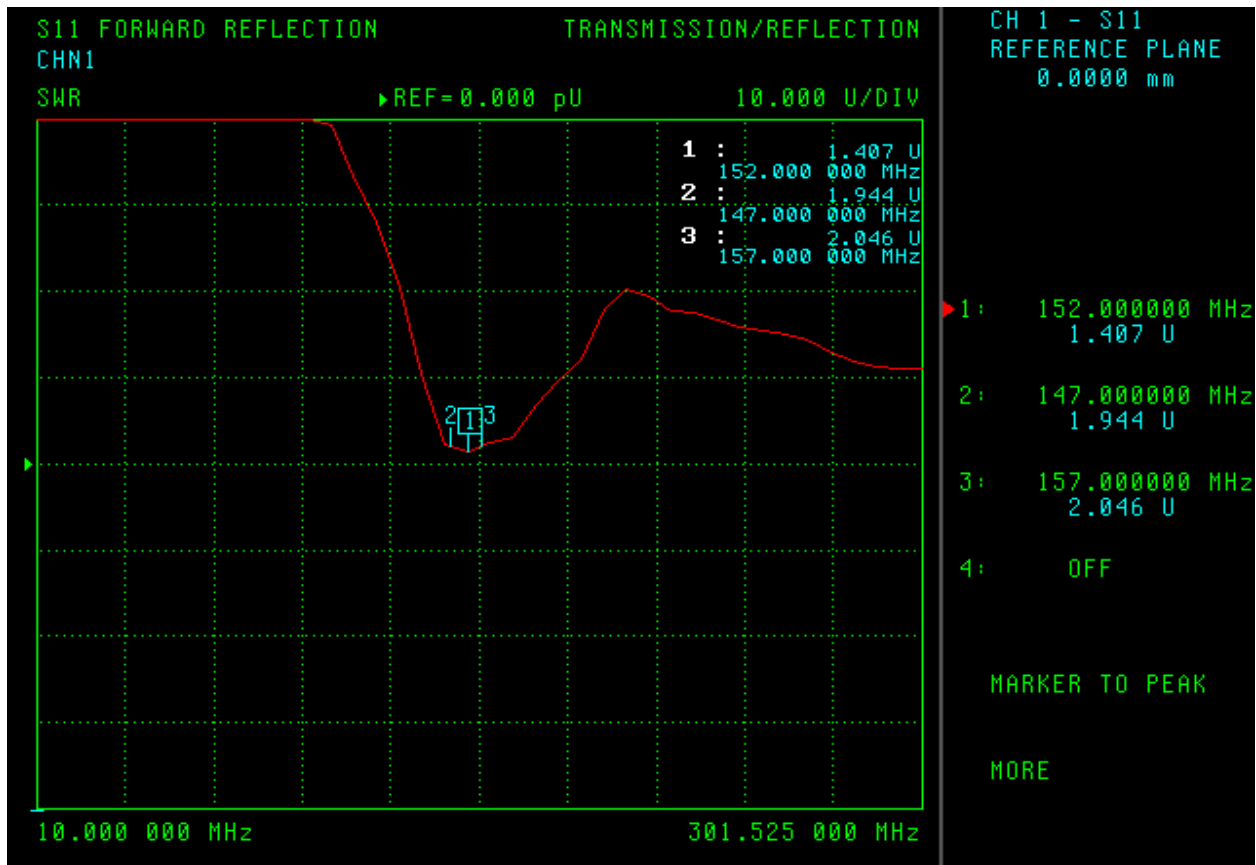
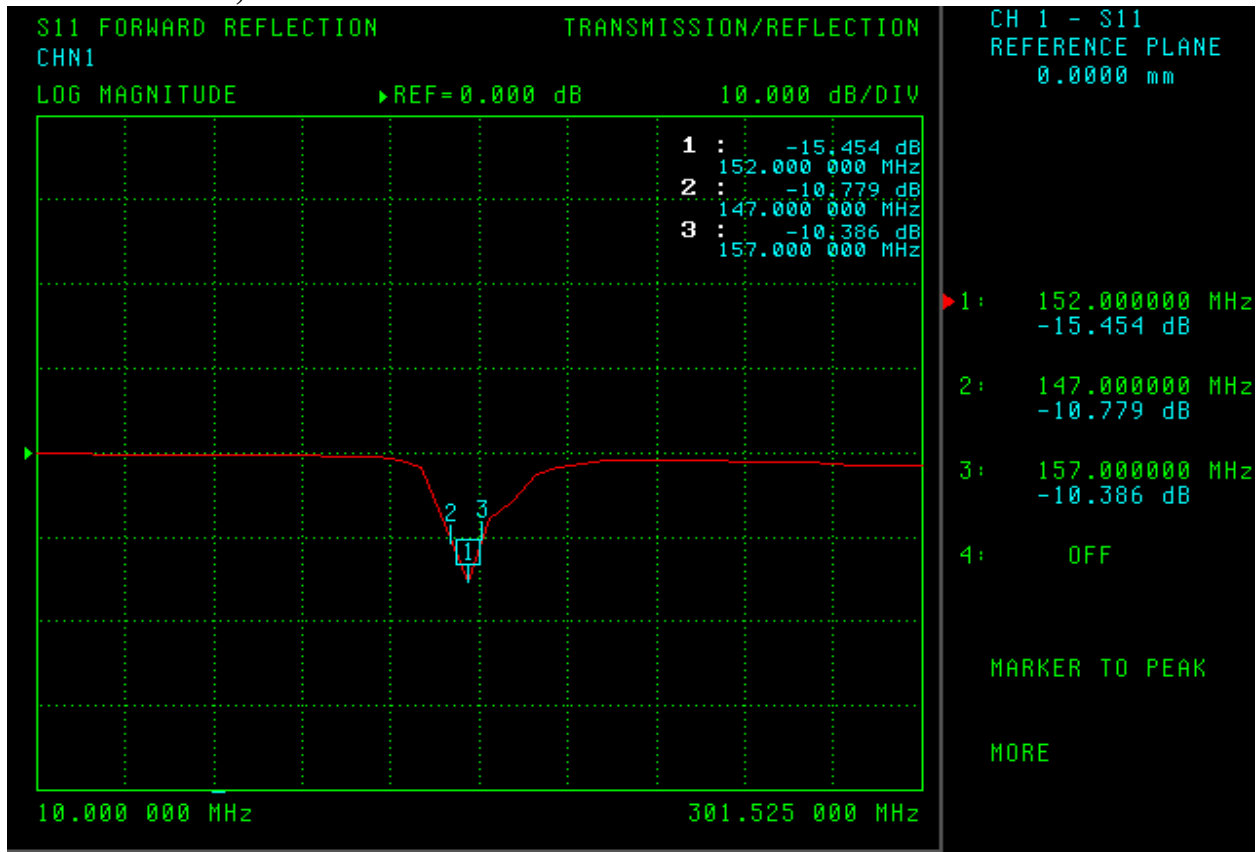
Parameter	Description
Antenna Type	External Antenna
Touch Type	Screw Type
Connector Type	SMA 180° (Male)

Antenna Dimensions	265 mm ± 5
Antenna Cable Total Length	RG-58 A /U 1000 mm ± 20
Antenna Color	Black
Operating Temperature Range	-20°C~+60°C
Storage Temperature Range	-30°C~+70°C

2. Appearance



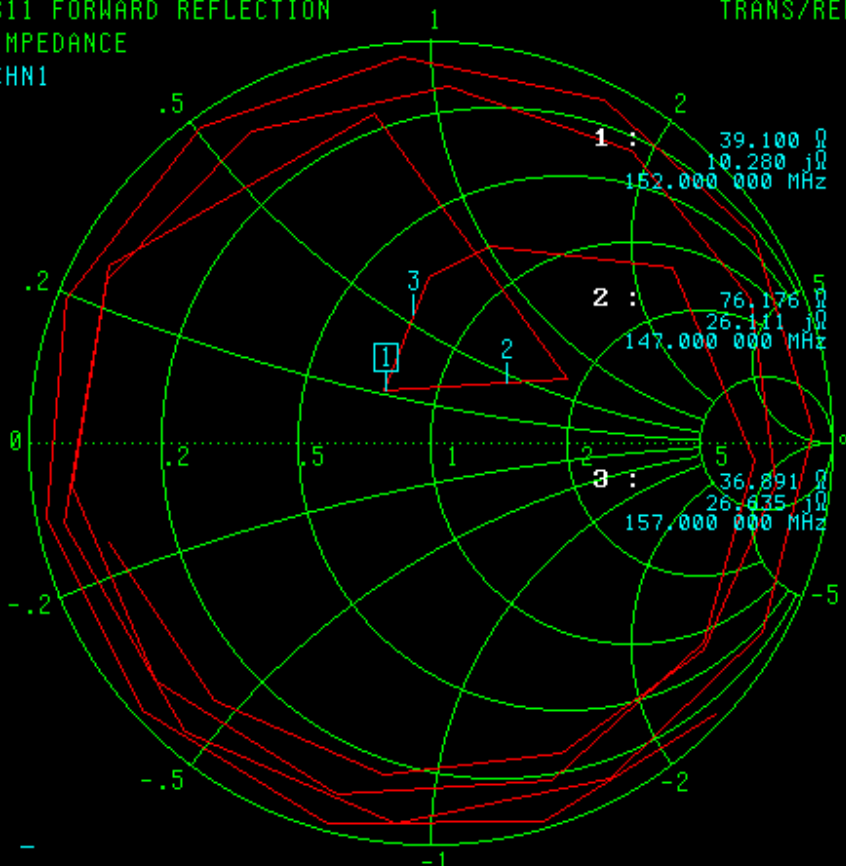
3. Return Loss, V.S.W.R. and Smith Chart



S11 FORWARD REFLECTION
IMPEDANCE
CHN1

TRANS/REFL

CH 1 - S11
REFERENCE PLANE
0.0000 mm



1 : 39.100 Ω
10.280 j Ω
152.000 000 MHz

2 : 76.176 Ω
26.111 j Ω
147.000 000 MHz

3 : 36.891 Ω
26.635 j Ω
157.000 000 MHz

- ▶ 1: 152.000000 MHz
39.100 Ω
10.280 j Ω
- 2: 147.000000 MHz
76.176 Ω
26.111 j Ω
- 3: 157.000000 MHz
36.891 Ω
26.635 j Ω
- 4: OFF

MARKER TO PEAK

MORE

10.000 000 MHz - 301.525 000 MHz