VHF BASE Antenna

MODEL: VA-1400

This document provides a Sleeve Dipole Antenna design .

1.. GENERAL DESCRIPTION

Model No	P/N
	VA-1400

Below is a table summarizing the antenna design specification.

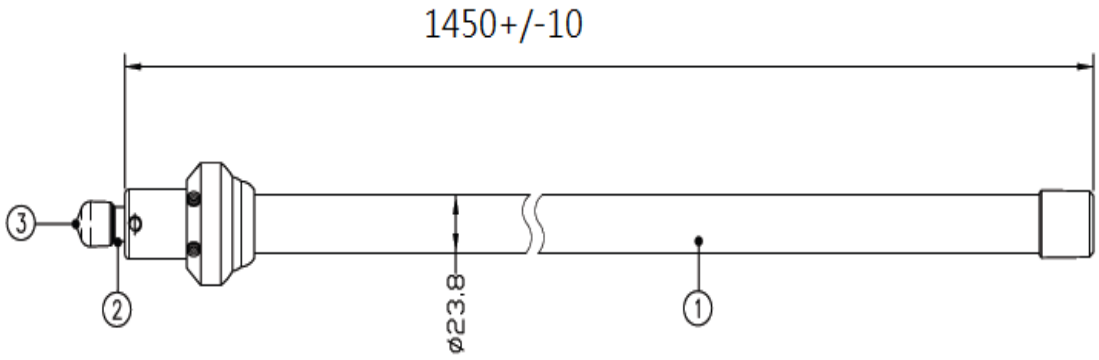
1.1 Electrical Properties

Parameter	Description
Frequency Band	118-142 MHz
Nominal Impedance	50 ohm
Polarization	Vertical
V.S.W.R	2.0:1
Note: Gain includes the cable loss	

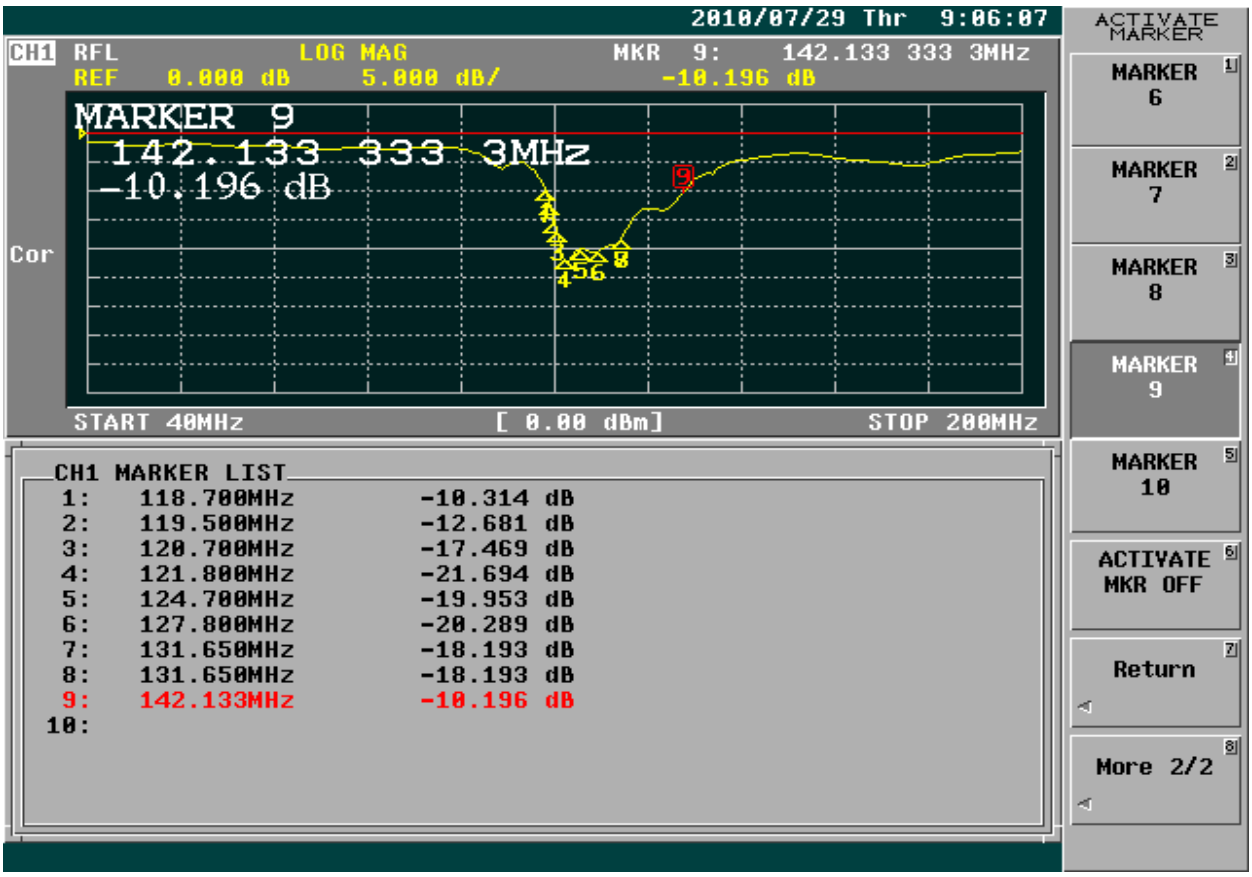
1.2 Mechanical Properties

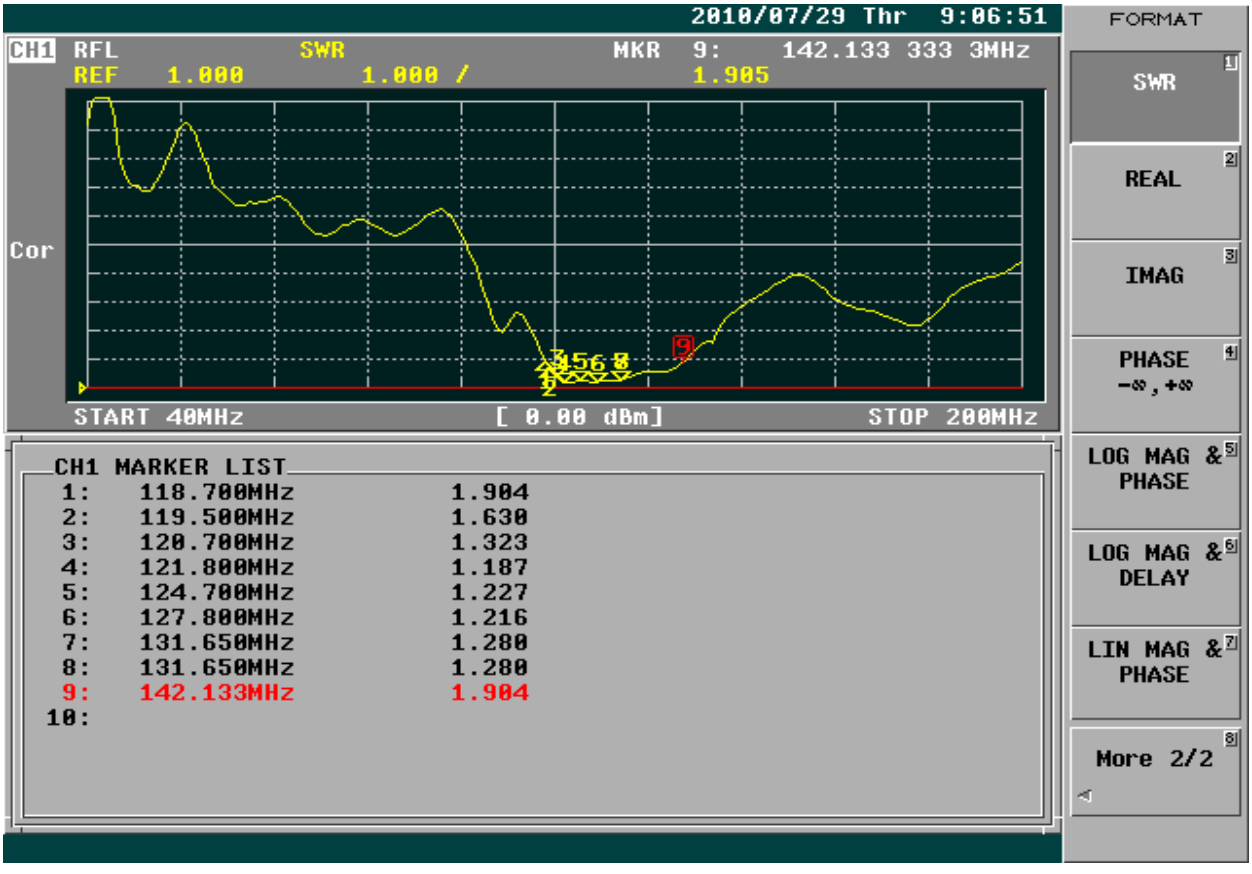
Parameter	Description
Antenna Type	Omni-Directional Antenna
Material	Fiberglass
Touch Type	Screw Type
Connector Type	N connector (Female)
Antenna Dimensions	1450 mm ±10
Antenna Color	White
Operating Temperature Range	-20˚C~+60˚C
Storage Temperature Range	-30˚C~+70˚C

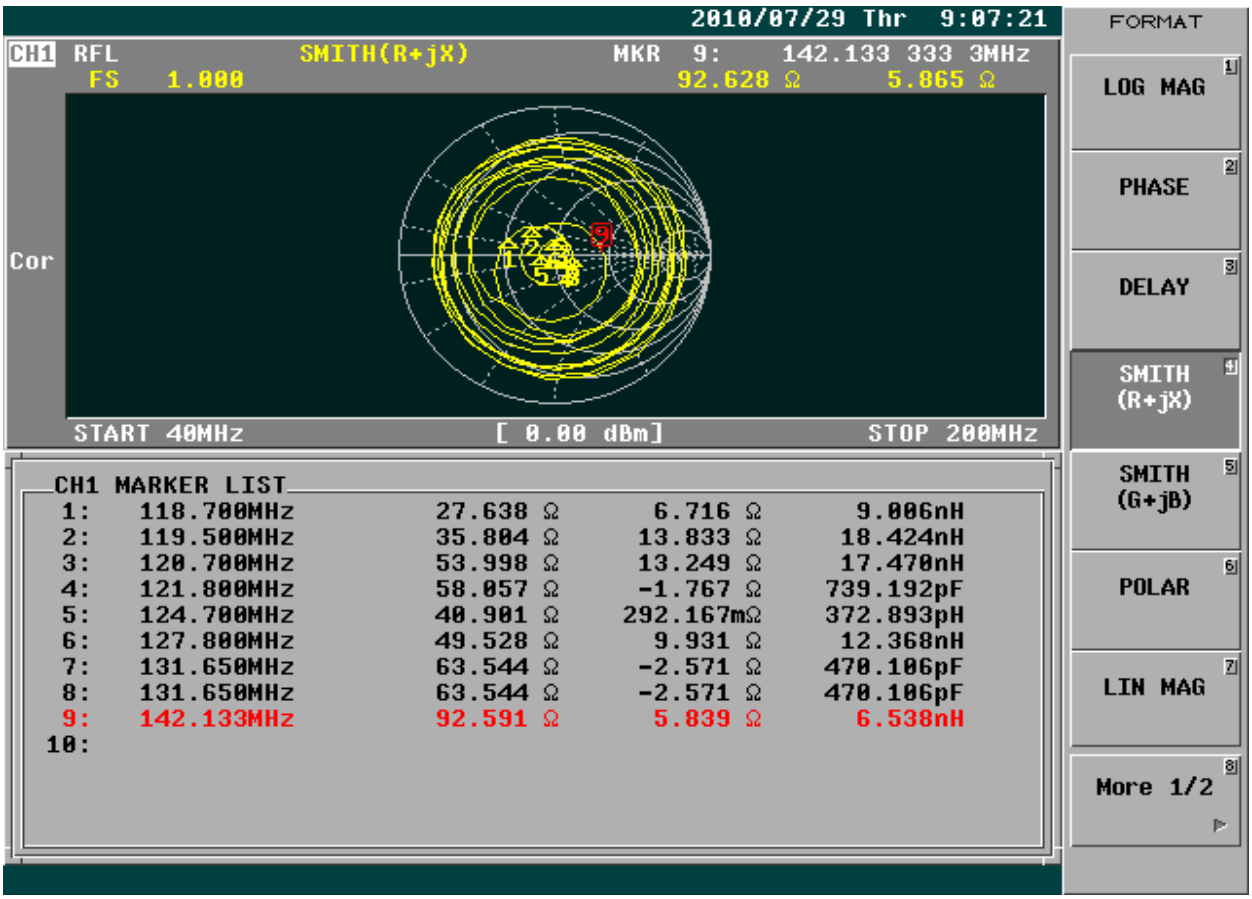
NO.	NAME	Q, TY
01	Bady	01
02	N (Female)	01
03	Sheath	01



Third angle projection	CUSTOMER'S	MODEL	PARTS NUMBER	FREQUENCY	UNIT	SCALE	DATE	VERSION
				118-142MHZ	M/M		20090617	1
	TOLERANCE	X.XX±0.15	NAME	PARTS NUMBER	APPROVED	CHECKED	DRAWING	DESIGNED
	SURFACE ROUGHNESS	▽	APPEARANCE					


2010/07/29 Thr 9:06:07
CH1 RFL LOG MAG MKR 9: 142.133 333 3MHz
REF 0.000 dB 5.000 dB/ -10.196 dB
MARKER 9
142.133 333 3MHz
-10.196 dB
Cor
START 40MHz [0.00 dBm] STOP 200MHz
CH1 MARKER LIST
1: 118.700MHz -10.314 dB
2: 119.500MHz -12.681 dB
3: 120.700MHz -17.469 dB
4: 121.800MHz -21.694 dB
5: 124.700MHz -19.953 dB
6: 127.800MHz -20.289 dB
7: 131.650MHz -18.193 dB
8: 131.650MHz -18.193 dB
9: 142.133MHz -10.196 dB
10:
ACTIVATE MARKER
MARKER 6
MARKER 7
MARKER 8
MARKER 9
MARKER 10
ACTIVATE MKR OFF
Return
More 2/2


2010/07/29 Thr 9:06:51
CH1 RFL SWR MKR 9: 142.133 333 3MHz
REF 1.000 1.000 / 1.905
Cor
START 40MHz [0.00 dBm] STOP 200MHz
CH1 MARKER LIST
1: 118.700MHz 1.904
2: 119.500MHz 1.630
3: 120.700MHz 1.323
4: 121.800MHz 1.187
5: 124.700MHz 1.227
6: 127.800MHz 1.216
7: 131.650MHz 1.280
8: 131.650MHz 1.280
9: 142.133MHz 1.904
10:
FORMAT
SWR
REAL
IMAG
PHASE -∞,+∞
LOG MAG & PHASE
LOG MAG & DELAY
LIN MAG & PHASE
More 2/2


2010/07/29 Thr 9:07:21
CH1 RFL
SMITH(R+jX)
MKR 9: 142.133 333 3MHz
FS 1.000
92.628 Ω 5.865 Ω
Cor
START 40MHz
[0.00 dBm]
STOP 200MHz
FORMAT
LOG MAG
PHASE
DELAY
SMITH (R+jX)
SMITH (G+jB)
POLAR
LIN MAG
More 1/2
CH1 MARKER LIST
1: 118.700MHz 27.638 Ω 6.716 Ω 9.006nH
2: 119.500MHz 35.804 Ω 13.833 Ω 18.424nH
3: 120.700MHz 53.998 Ω 13.249 Ω 17.470nH
4: 121.800MHz 58.057 Ω -1.767 Ω 739.192pF
5: 124.700MHz 40.901 Ω 292.167mΩ 372.893pH
6: 127.800MHz 49.528 Ω 9.931 Ω 12.368nH
7: 131.650MHz 63.544 Ω -2.571 Ω 470.106pF
8: 131.650MHz 63.544 Ω -2.571 Ω 470.106pF
9: 142.133MHz 92.591 Ω 5.839 Ω 6.538nH
10: