

L Band ANTENNA

MODEL: TC-822G



1. GENERAL DESCRIPTION

Model No	P/N
TC822G	TC822G-RG174-1M-SMA(M)

Below is a table summarizing the antenna design specification.

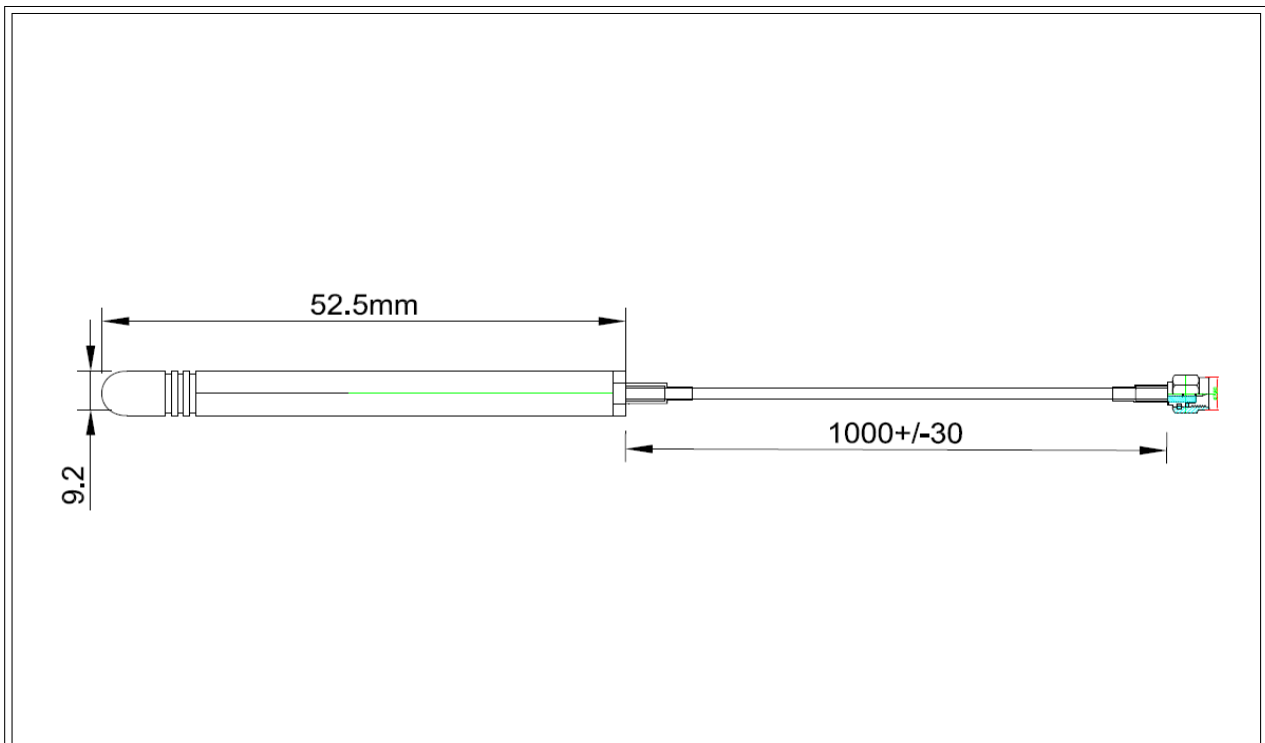
1.2 Electrical Properties

Parameter	Description
Frequency Band	1.2~1.7Ghz
Nominal Impedance	50 ohm
Polarization	R.H.C.P. 4-axis Ceramic helix antenna
V.S.W.R	2.0:1 (ON Body)
Antenna Gain	0-4.0dBi

1.2 Mechanical Properties

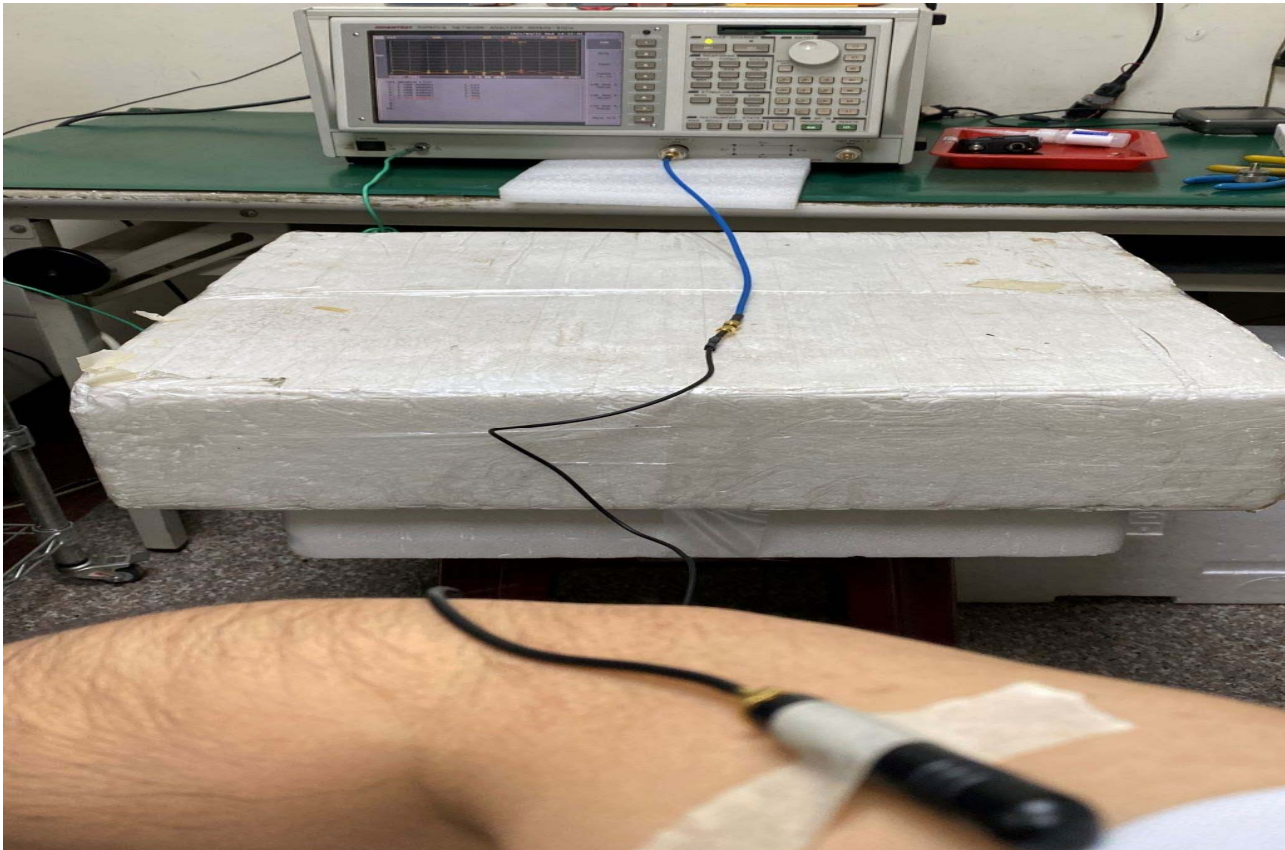
Parameter	Description
Antenna Type	Outdoor / indoors Antenna
Antenna Material	ASA-UV
Connector Type	SMA(M)
Antenna Dimensions	9.2x52.5mm ± 1.5
Antenna Cable Total Length	1000mm ± 30
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

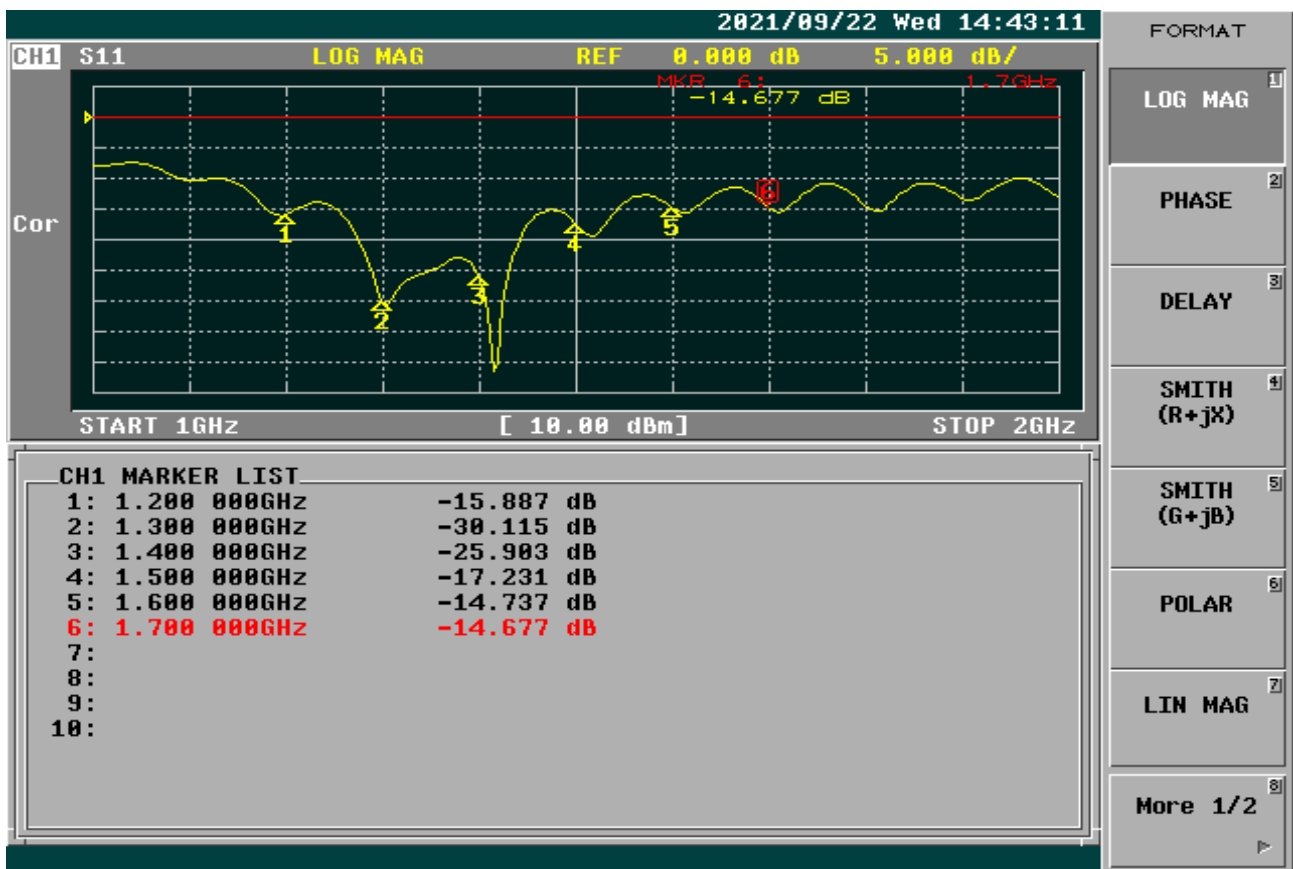
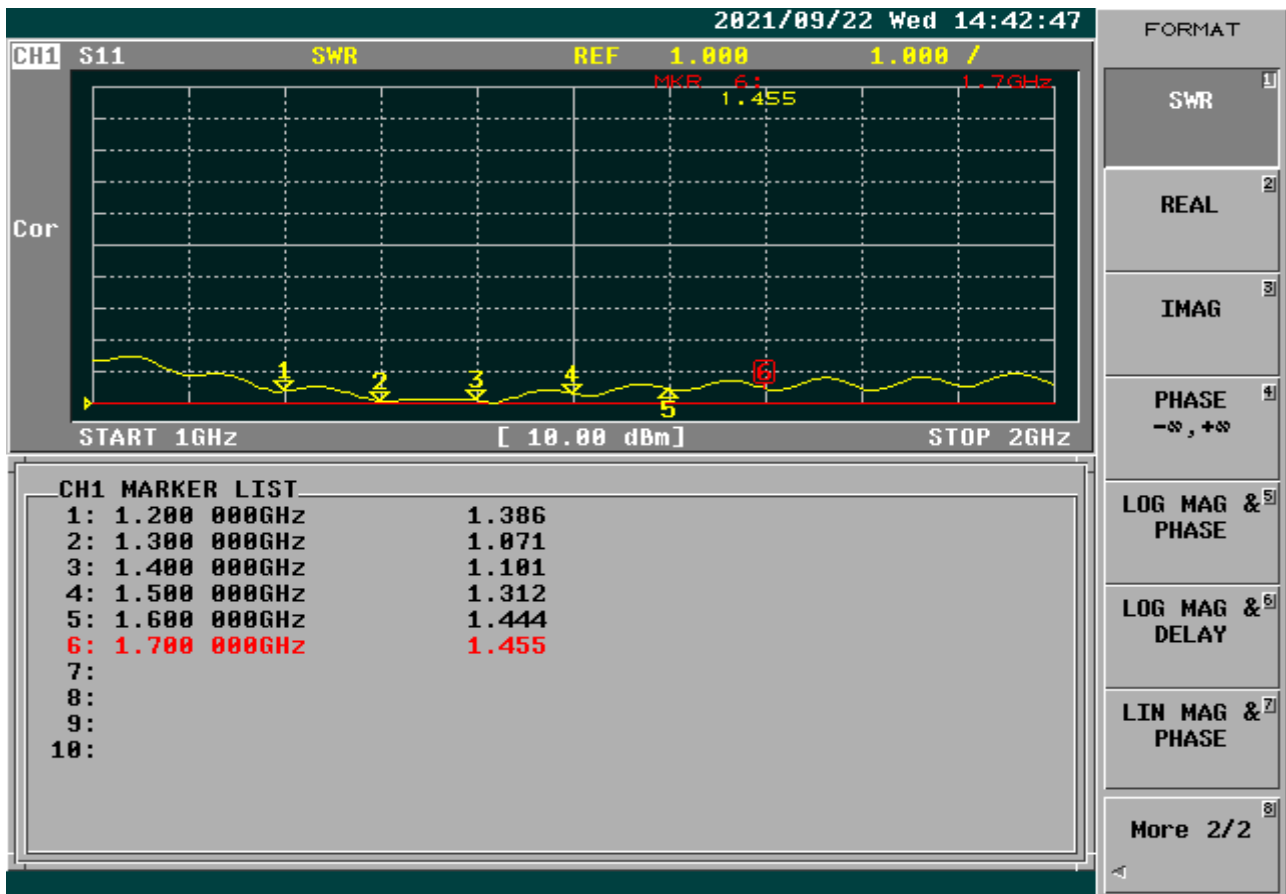
2. Appearance



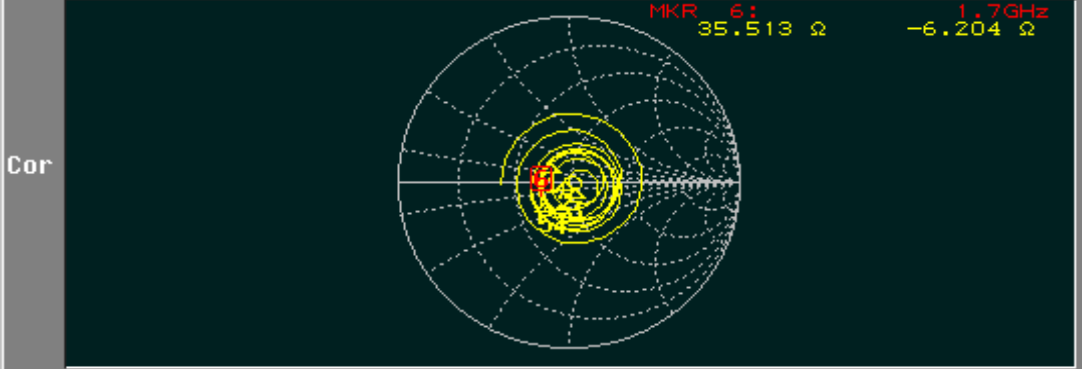
				百展科技有限公司		TEL : 886-2-86720160	
				BJTEK NAVIGATION INC		FAX : 886-2-86720161	
				TITLE : L BAND ANTENNA		DWG NO. : TC-822G-1M-SMAC(M)	
				TOLERANCE : AS SPEC.		FINISH : SEE TABLE	
				DATE : 2021.09.22		UNIT : MM	
				MATERIAL : SEE TABLE		ISSUED : 787KEN	
				DRAWN : BILL		CHECKED : LOTUS	

3.FREQUENCY





CH1 S11 SMITH(R+jX) FS 1.800



CH1 MARKER LIST

1:	1.200 000GHz	39.685 Ω	9.699 Ω	1.286nH
2:	1.300 000GHz	47.160 Ω	719.079mΩ	88.035pH
3:	1.400 000GHz	53.241 Ω	-4.056 Ω	28.021pF
4:	1.500 000GHz	43.886 Ω	-11.514 Ω	9.215pF
5:	1.600 000GHz	36.820 Ω	-9.115 Ω	10.912pF
6:	1.700 000GHz	35.502 Ω	-6.209 Ω	15.076pF
7:				
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