

# S Band ANTENNA

## MODEL: TC-822H



### 1. GENERAL DESCRIPTION

Model No	P/N
TC822H	TC822H-RG174-1M-SMA(M)

Below is a table summarizing the antenna design specification.

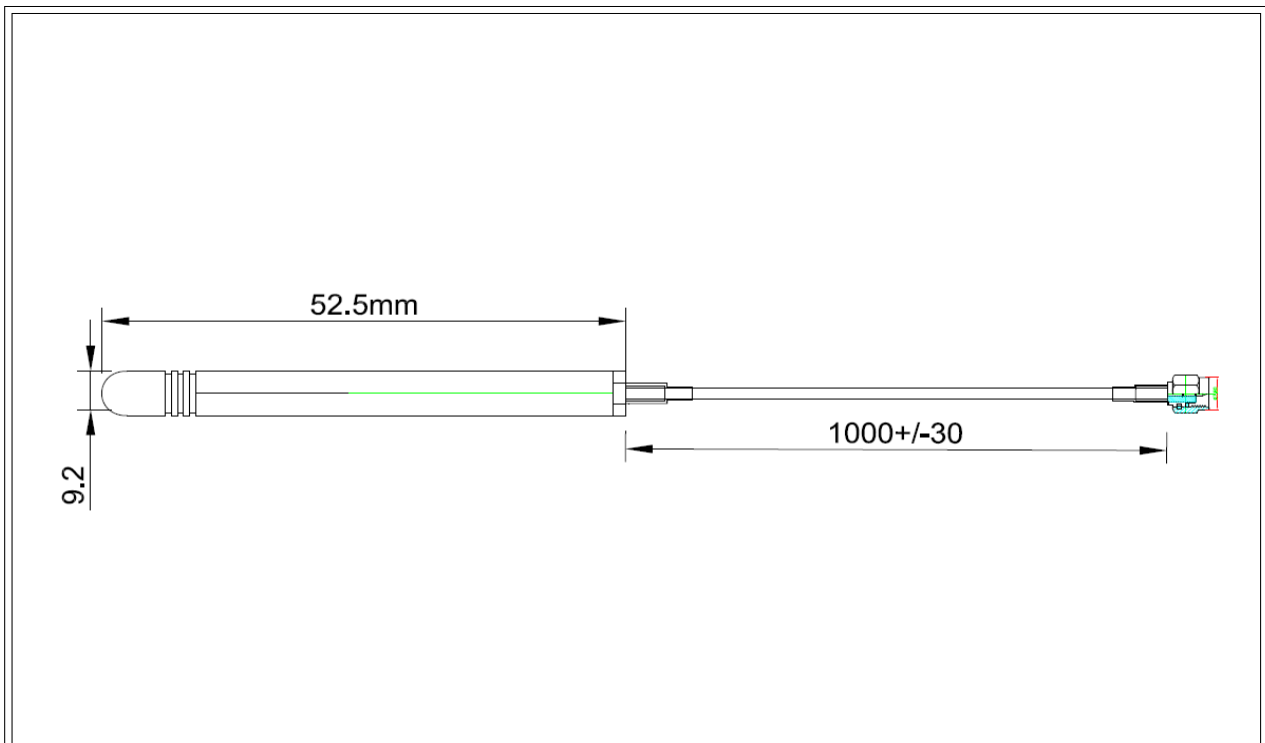
#### 1.2 Electrical Properties

Parameter	Description
Frequency Band	2.1~2.5GHz
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

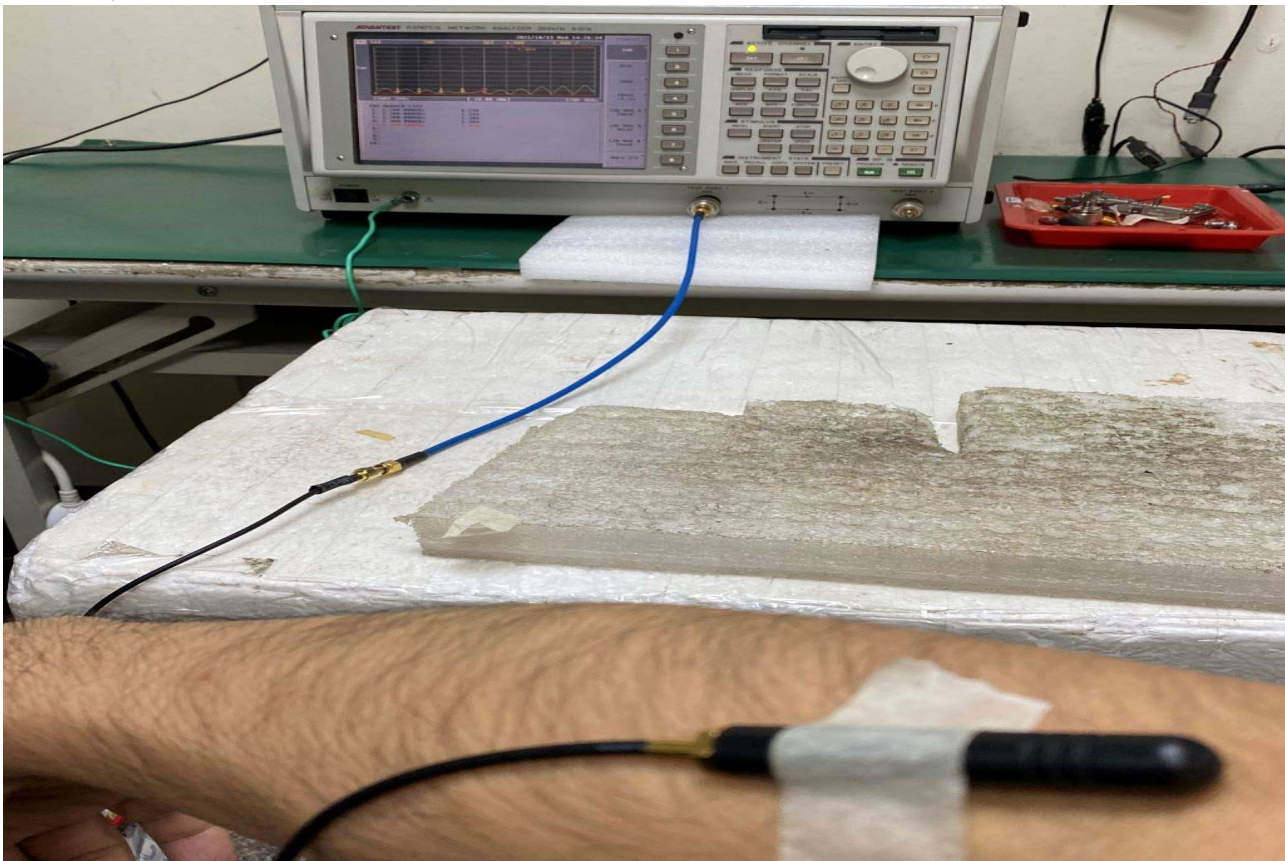
Parameter	Description
Antenna Type	Outdoor / indoors Antenna
Antenna Material	ASA-UV
Connector Type	SMA(M)
Antenna Dimensions	9.2x52.5mm ± 1.5
Antenna Cable Total Length	1000mm ± 30
Antenna Color	Black
Operating Temperature Range	-40°C~+85°C
Storage Temperature Range	-40°C~+85°C

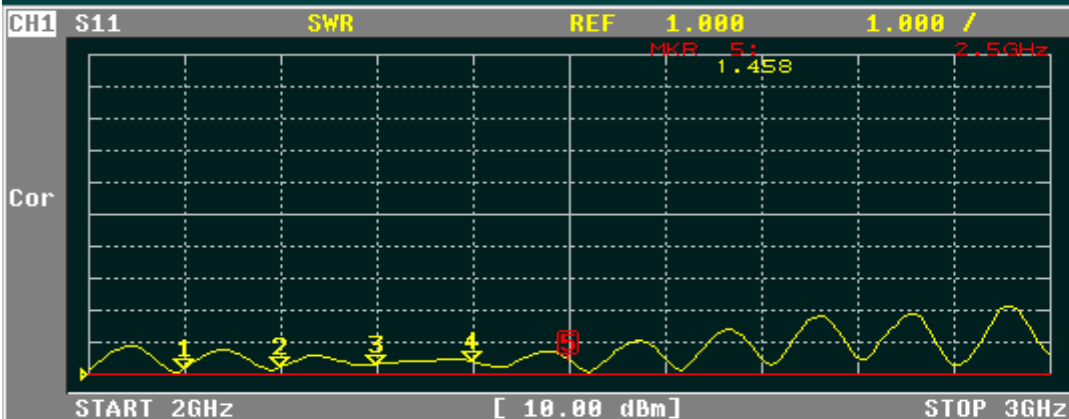
## 2. Appearance



				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	
2	ANT COVER	ASA-UV	BALCK				
1	SMACO CONN	BRASS	GOLD-PLATED				
ITEM	DESCRIPTION	MAT'L	FINISH	ITEM No.			

## 3.FREQUENCY





CH1 MARKER LIST

1:	2.100 000GHz	1.172
2:	2.200 000GHz	1.225
3:	2.300 000GHz	1.308
4:	2.400 000GHz	1.405
5:	2.500 000GHz	1.458
6:		
7:		
8:		
9:		
10:		

FORMAT

SWR <sup>1</sup>

REAL <sup>2</sup>

IMAG <sup>3</sup>

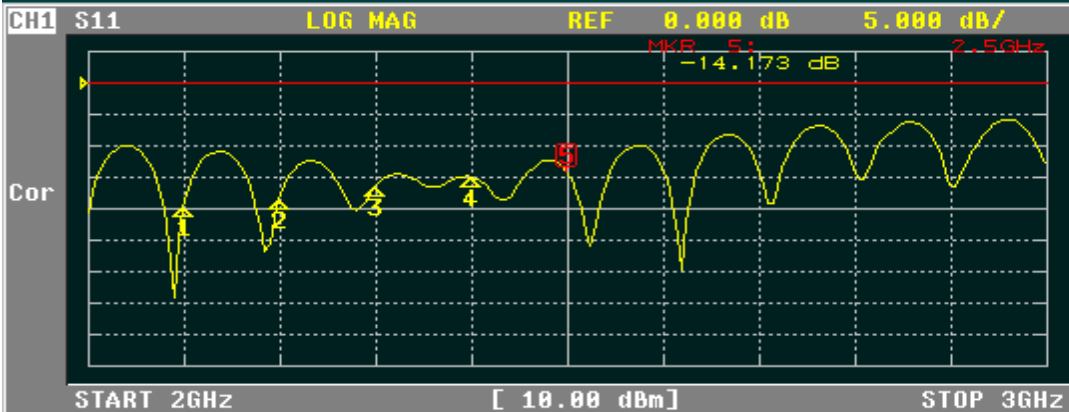
PHASE <sup>4</sup>  
-∞, +∞

LOG MAG & <sup>5</sup>  
PHASE

LOG MAG & <sup>6</sup>  
DELAY

LIN MAG & <sup>7</sup>  
PHASE

More 2/2 <sup>8</sup>



CH1 MARKER LIST

1:	2.100 000GHz	-19.734 dB
2:	2.200 000GHz	-18.444 dB
3:	2.300 000GHz	-16.541 dB
4:	2.400 000GHz	-14.955 dB
5:	2.500 000GHz	-14.172 dB
6:		
7:		
8:		
9:		
10:		

FORMAT

LOG MAG <sup>1</sup>

PHASE <sup>2</sup>

DELAY <sup>3</sup>

SMITH (R+jX) <sup>4</sup>

SMITH (G+jB) <sup>5</sup>

POLAR <sup>6</sup>

LIN MAG <sup>7</sup>

More 1/2 <sup>8</sup>



CH1 MARKER LIST

1:	2.100 000GHz	57.891 Ω	8.397 Ω	636.396pH
2:	2.200 000GHz	63.861 Ω	-423.207mΩ	170.940pF
3:	2.300 000GHz	64.051 Ω	-10.247 Ω	6.752pF
4:	2.400 000GHz	56.315 Ω	-18.622 Ω	3.560pF
5:	2.500 000GHz	46.499 Ω	-19.337 Ω	3.292pF
6:				
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