

Acknowledgement

Manufacture Name: Dongguan Tengchen Electronic Technology Co., Ltd.

Product Number: NB5800-ZH120GX

Product Name: 5G antenna

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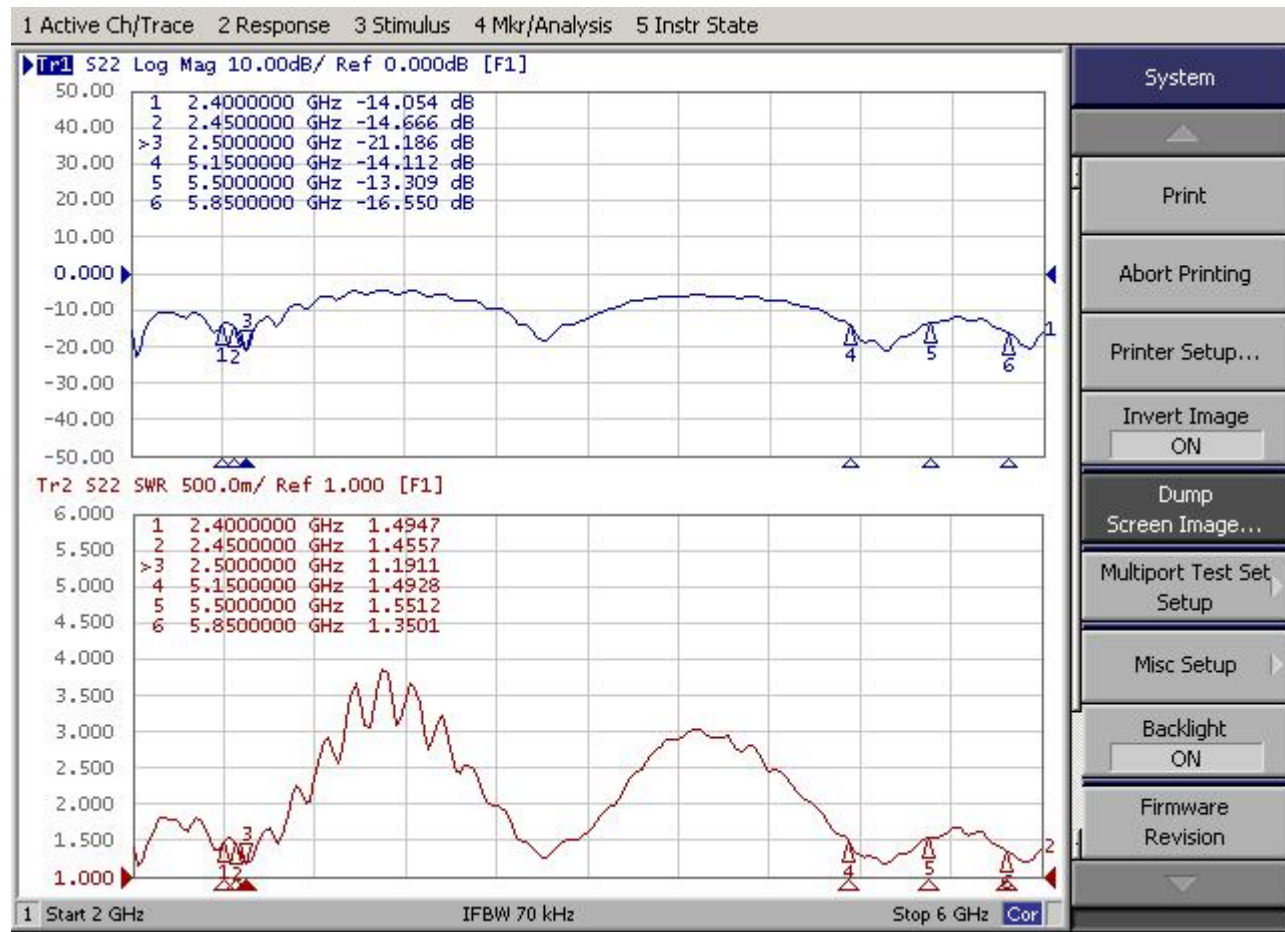
Revision History

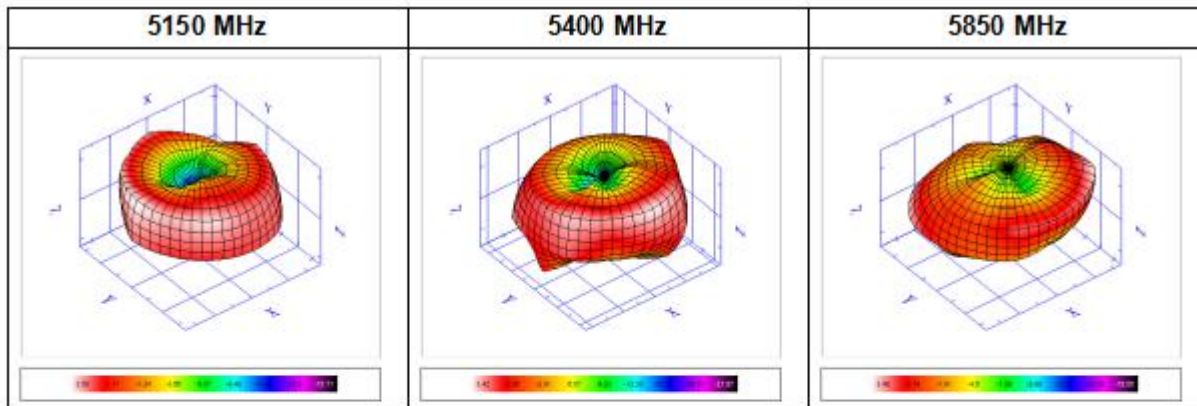
Revision	Date	Change Notification	Description
1.0	2020.5.19		

Specification

A. Electrical Characteristics	
Frequency	5.15-5.85 GHz
S.W.R.	≤ 3.0
Efficiency(%)	$\approx 50\%$
Polarization	Linear
Impedance	50 Ohm
B. Material & Mechanical Characteristics	
Material of Radiator	external antenna
Cable Type	O.D1.13
Connector Type	Mini connector
Connector Pull Test	$\geq 1\text{Kg}$
C. Environmental	
Operation Temperature	- 40 °C ~ + 65 °C
Storage Temperature	- 40 °C ~ + 80 °C

Antenna - S Parameter Test Data





Frequency	5150	5400	5700	5850
TRP (dBm)	-0.56	-1.32	-1.75	-1.37
Peak EIRP (dBm)	3.58	3.42	2.61	3.48
NHPRP +/- 45 (degree)	-1.13	-1.74	-2.2	-2.11
NHPRP +/- 30 (degree)	-0.9	-1.61	-2.2	-2.05
E-Theta Peak Gain (dBi)	-8.85	-10.3	-8.1	-10.5
E-Phi Peak Gain (dBi)	3.56	3.37	2.39	3.43
E-Total Peak Gain (dBi)	3.58	3.42	2.61	3.48
Directivity (dBi)	4.14	4.74	4.36	4.84
Efficiency (%)	87.94	73.75	66.79	73

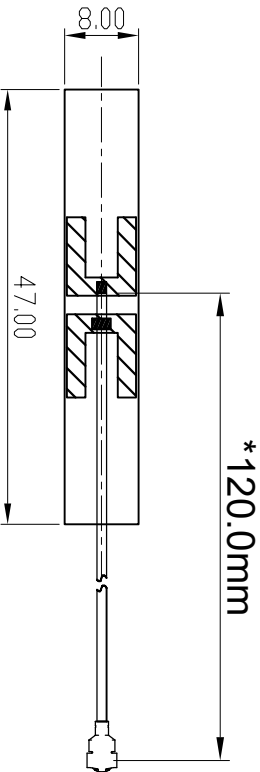
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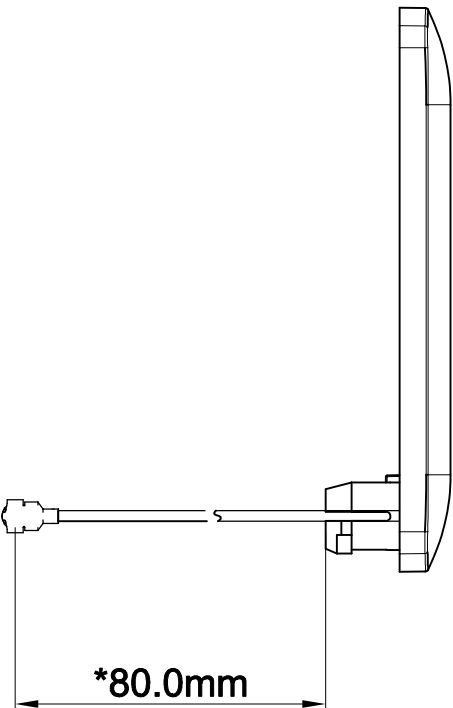
Compatible



SIGN	DATE	DESCRIPTION	APPROVER
△			
△			
△			



5.8GHz天线 黑色PCB板厚 0.6mm
1. 13线灰色120MM+IPEX



Note:
1. Take * is the important dimension.
2. Tolerance: Unmarked tolerance refer to the standard tolerance please.

东莞市腾晨电子有限公司

TITLE: ANTENNA-5.8GHz 黑色PCB板 灰色线						
PART NO.: NB5800-ZH120GX						
APP BY	CHK BY	DES BY		Tolerance X.X ±0.3 X.XX ±0.15 X° ±1		
		ZLB				
		2019.3.13				
			UNITS: mm	SCALE: 1/1		
			REVISION: A			