Outline

1. Benchmark
2. S-Parameters(VSWR &isolation)
3. Antenna Efficiency&PeakGain
4. Radiation patterns
5. Summary

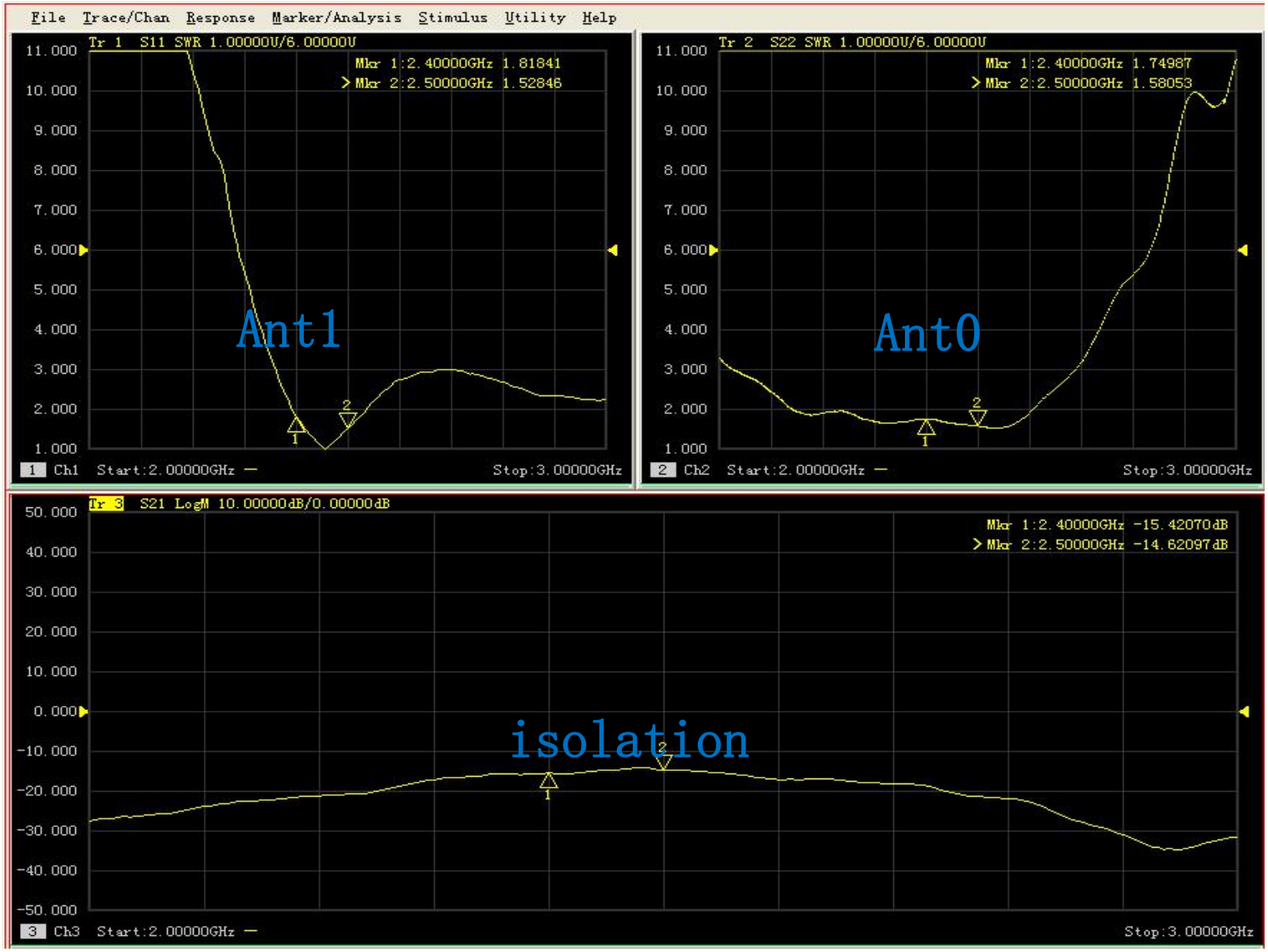
Customer:Barking Labs Corporation

ProjectName:FB3

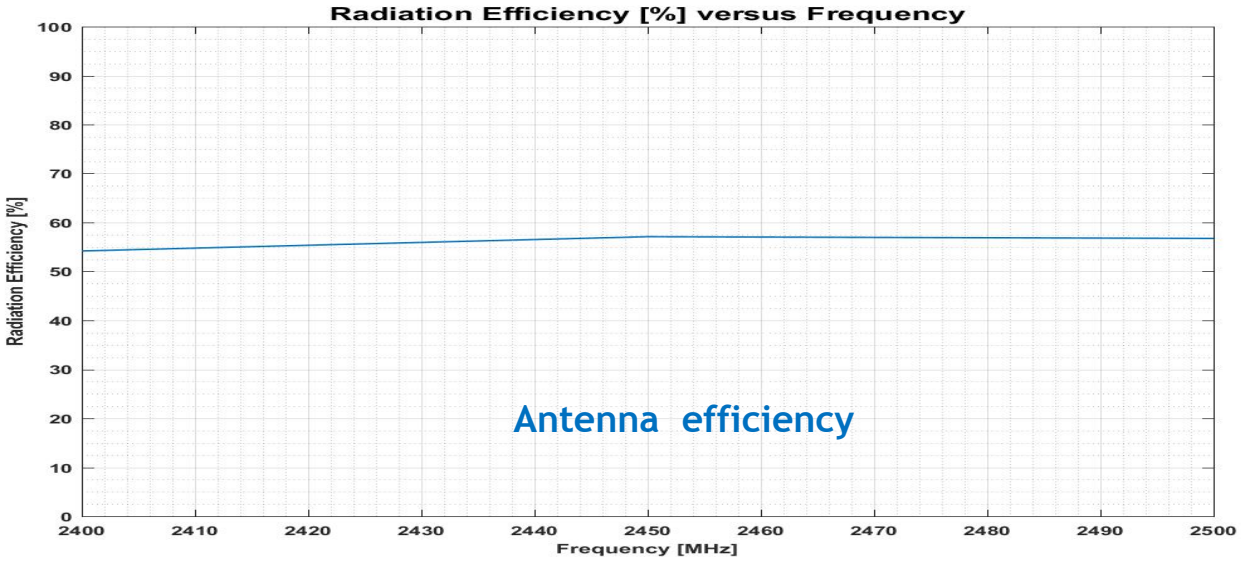
Manufacture:Shanghai Jinghong Communication Technology Co., Ltd.

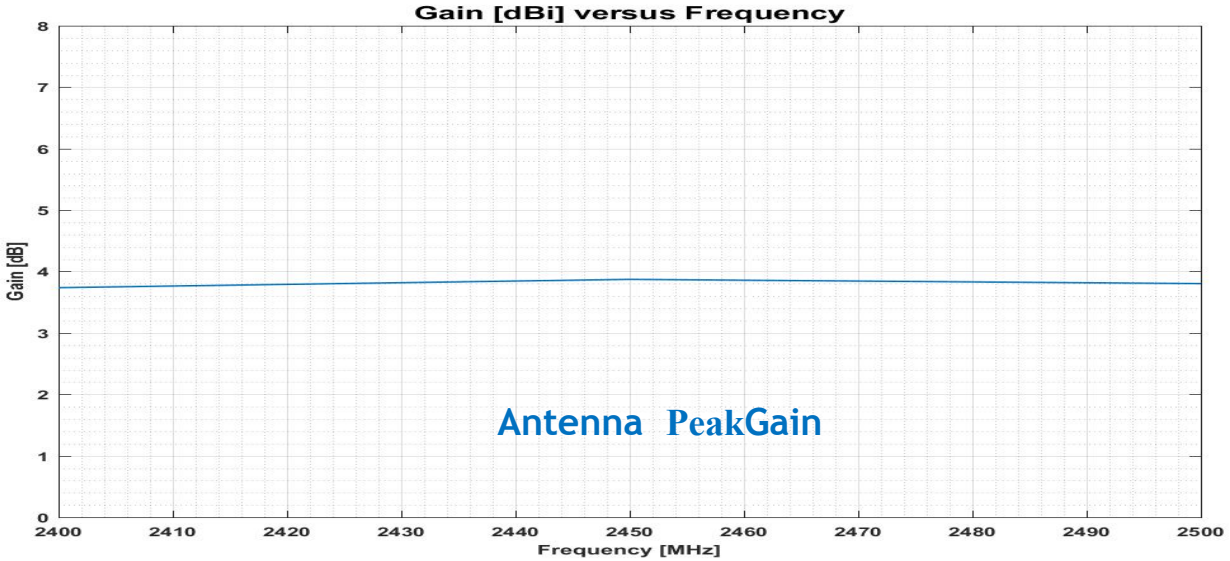
Antenna Type:Dipole
Thetestequipmentlist:EM-testing24+E5071C
Designer:LZH
Date:2022/09/07

2.S-Parameters(VSWR &isolation)

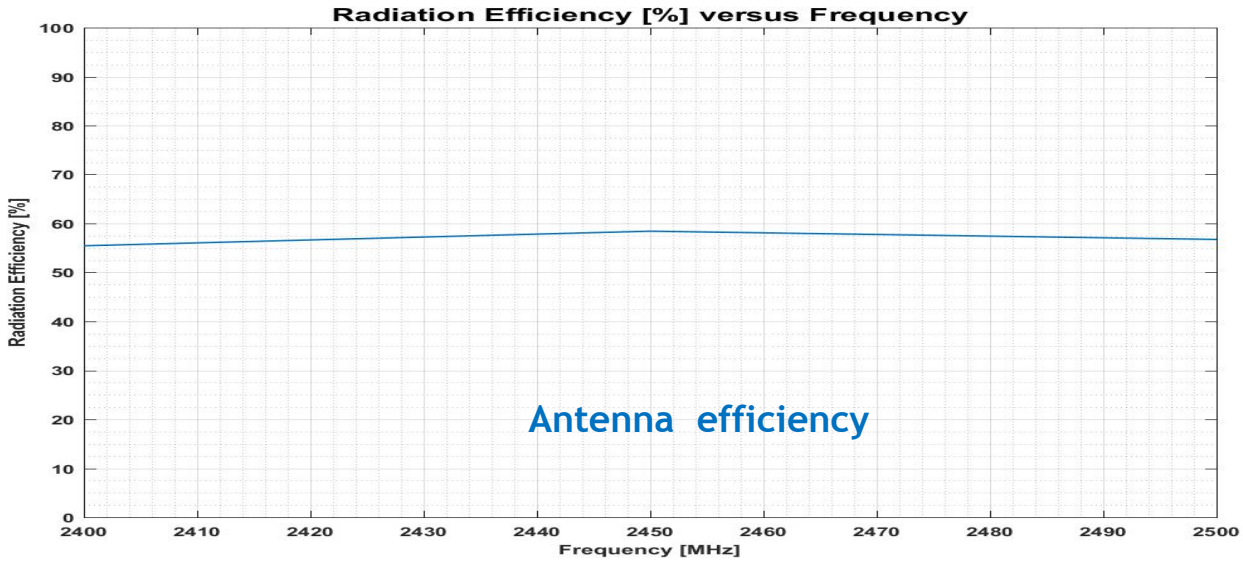


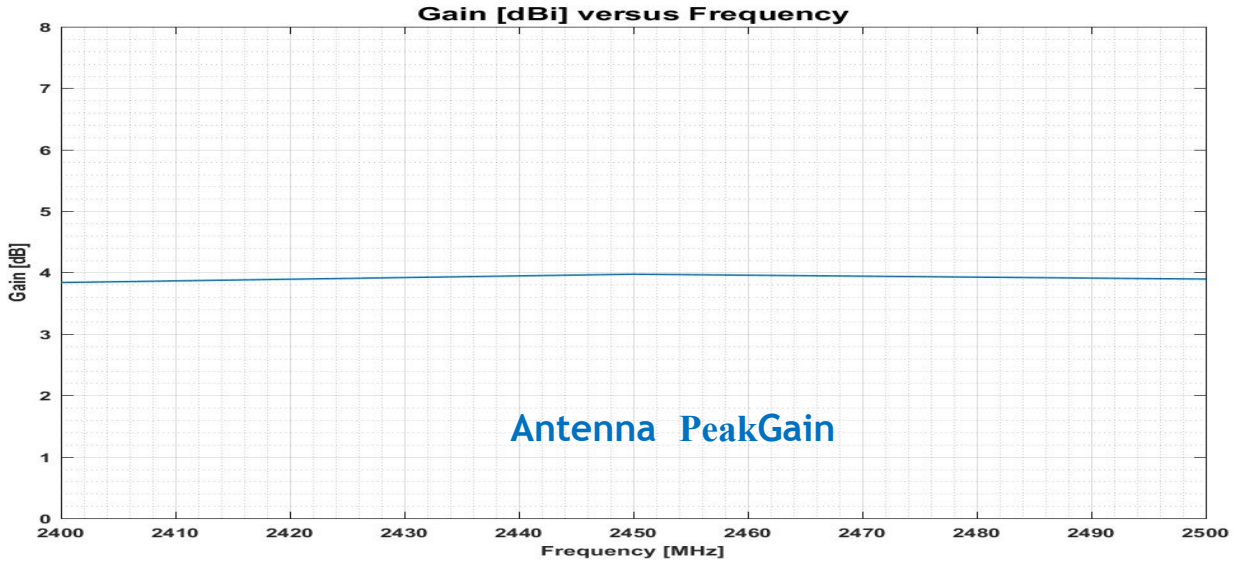
3. Antenna Efficiency&Peak Gain (Ant0)



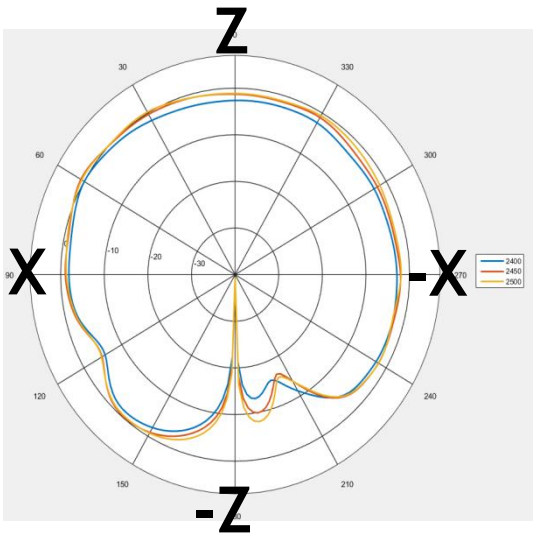


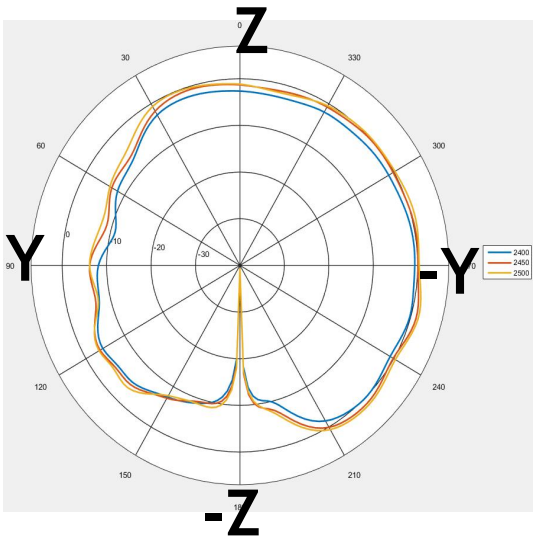
3. Antenna Efficiency&Peak Gain (Ant1)

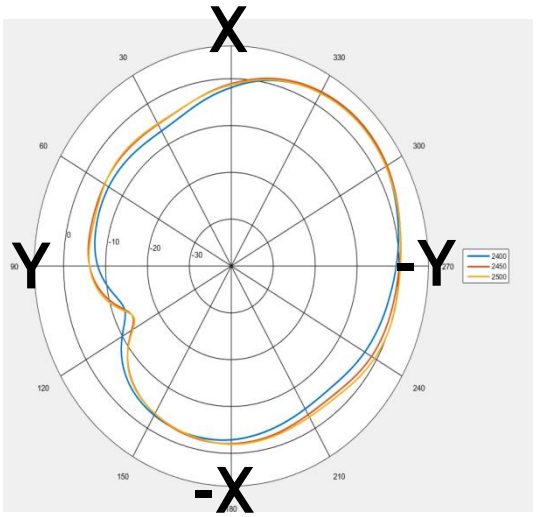




4. Radiation patterns (Ant0)

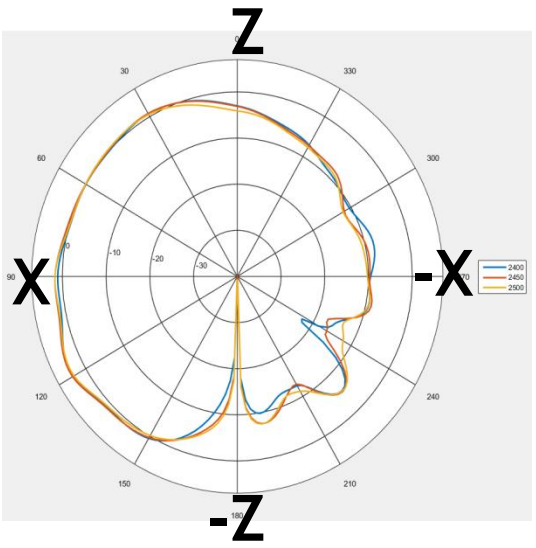


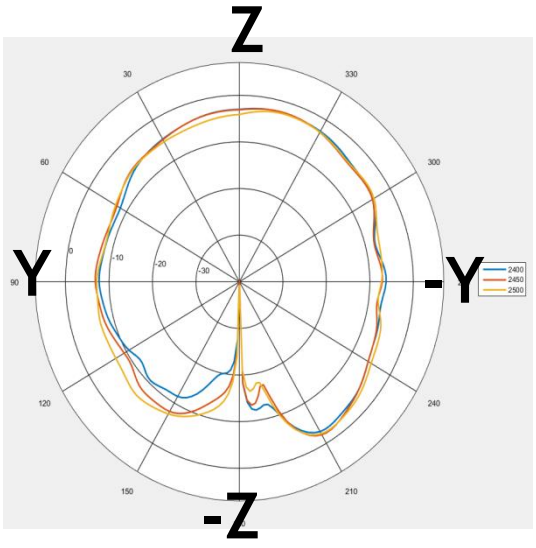


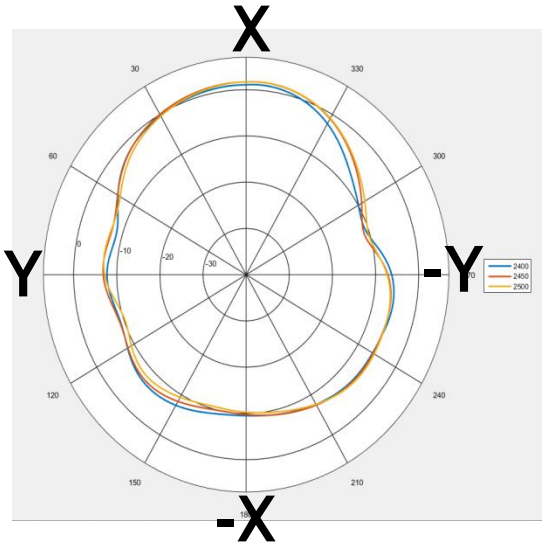


Frequency	2400MHz			2450MHz			2500MHz		
	ZX Plane	ZY Plane	XY Plane	ZX Plane	ZY Plane	XY Plane	ZX Plane	ZX Plane	ZX Plane
Max Gain (dB)	3.76	-2.39	1.16	3.87	-1.93	1.75	3.81	-2.13	1.77
Average Gain (dB)	-5.41	-6.67	-6.94	-5.29	-6.89	-6.91	-5.41	-6.25	-6.97

4. Radiation patterns (Ant1)







Frequency	2400MHz			2450MHz			2500MHz		
	ZX Plane	ZY Plane	XY Plane	ZX Plane	ZY Plane	XY Plane	ZX Plane	ZX Plane	ZX Plane
Max Gain (dB)	-0.6	3.84	2.64	-0.1	3.97	2.33	-0.15	3.89	2.34
Average Gain (dB)	-3.63	-1.37	-3.57	-3.36	-1.36	-3.13	-3.2	-2.07	-2.37

1. The measurements are as follows:

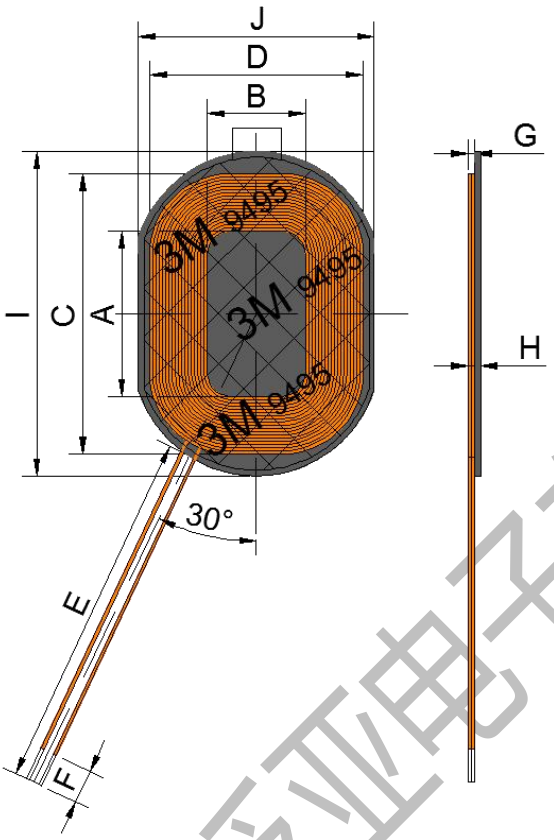
Item	Frequency(MHz)	2400	2450	2500
Ant0	Peak Gain(dBi)	3.76	3.87	3.81
	Efficiency(%)	54.18	57.10	56.76
Ant1	Peak Gain(dBi)	3.84	3.97	3.89
	Efficiency(%)	55.45	58.43	56.73

Fine

SPECIFICATION

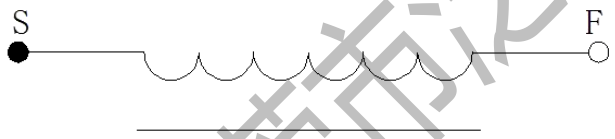
ANTENNA TYPE :	LOOP COIL	Rev: A.1	CUST:	753
			Fine P/N:	FYD753002-TX
			CUST P/N:	

一、 DIMENSION:(mm)



A	12±0.5
B	7±0.5
C	24±1
D	19.5 +0.6/-0.7
E	20±3
F	2-4
G	0.75±0.15
H	2.15 Max
I	26 +0.2/-0.4
J	20.5 +0.2/-0.4

二、 SCHEMATIC DIAGRAM:



三、Winding Specification:

NO.	TERMINAL		WIRE	Turns	Winding Direction
1	S	F	Litz 0.1*10P	32Ts	α

四、ELECTRICAL CHARACTERISTICS:

TEMPERATURE:25±10°C, RELATIVE HUMIDITY:65±20%

NO.	ITEM	TERMINAL	SPECIFICATION	TEST FREQUENCY	TEST EQUIPMENTS
1	IND.	S-F	32.5uH±10%	100KHz/1.0V	LCZ METER 1062B
2	DCR	S-F	≤520mΩ		TH2810

PREPARED BY/DATE	CHECKED BY/DATE
2022/07/05	2022/07/05