

BIFROST BT

Antenna Return Loss & Radiation Pattern

Test Report

Version: V1

Brand name: ACETECH

Project Name: 5SP50000000110

Antenna type: Coil Antenna

Test Date: 2023-02-01

Tested by: Eric Chang

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1.1 TEST UNIT4

1.2 TEST RESULT SUMMARY4

Document History

Rev.	Date	Author	Reason for Changes
V1	2023/2/01	ERIC Chang'n	• PV build verify

Test Equipment

1. Vector Network Analyzer, Anritsu Test Architecture

Vector Network



DUT

General tolerances for linear and angular dimensions. (STANDARD ISO 2768-1)										項目 Item	設計變更內容 Modify	修改者 Modifier	日期 Date
linear Tolerance class	description	0-3	3-6	6-30	30-120	120-400	400-1000	1000-2000	2000-4000				
	fine	±0.05	±0.05	±0.1	±0.15	±0.2	±0.3	±0.5	--				
	medium	±0.1	±0.1	±0.2	±0.3	±0.5	±0.8	±1.2	±2				
	coarse	±0.2	±0.3	±0.5	±0.8	±1.2	±2	±3	±4				
													REV1.0
angular Tolerance class	description (fine & medium)	10	10-50	50-120	120-400	over 400							
		±1°	±0.5°	±0.333°	±0.166°	±0.083°							
● is selected tolerance class													
		品名 Part name	Bifrost BT 彈簧天線		機種 Product	Bifrost BT		製圖 DWN. BY	CooKa Chang		日期 Date	2022/12/2	
		料號 Part no.	5SP50000000110		比例 Scale	1:1		設計 DES. BY	CooKa Chang		單位 Unit	mm	
								審核 CKD. BY	Eric Chang				

1 TEST SETUP

1.1 Test Unit

- 1. Hardware Version: V1.2
- 2. Firmware Version: V1.3

1.2 Test Result Summary

WZ-1

Frequency(MHz)	Polarization	Peak gain(dBi)	MEG(dBi)	Efficiency(dBi)	Efficiency(%)
2400	Vector sum	0.26	-4.54	-3.29	59.03
2450	Vector sum	0.80	-5.39	-4.25	47.37
2480	Vector sum	0.52	-6.99	-5.99	39.94

1.3 Antenna Return Loss



