SUNTSU

Indoor Antenna

SATIA-104F7I-WFB3

104.5mm x 7.8mm

Features

- WiFi / Bluetooth
- Indoor Type
- 50 Ohm Impedance
- 2400-2500MHz & 5150-5850MHz
- Omni Radiation

Applications

- Bluetooth & IEEE 802.11a/b/g/n/ac
- Wireless Communication
- Portable Device
- Machine To Machine Communication
- Network Devices



Part Numbering Guide

S AT IA 104F7I WF B3

SUNTSU	ANTENNA	INDOOR ANTENNA	PACKAGE SIZE*	APPLICATION	FREQUENCY
RoHS COMPLIANT			104F7I = 104.5mm x 7.8mm	WF = WiFi	B3 = 2400-2500MHz 5150-5850MHz

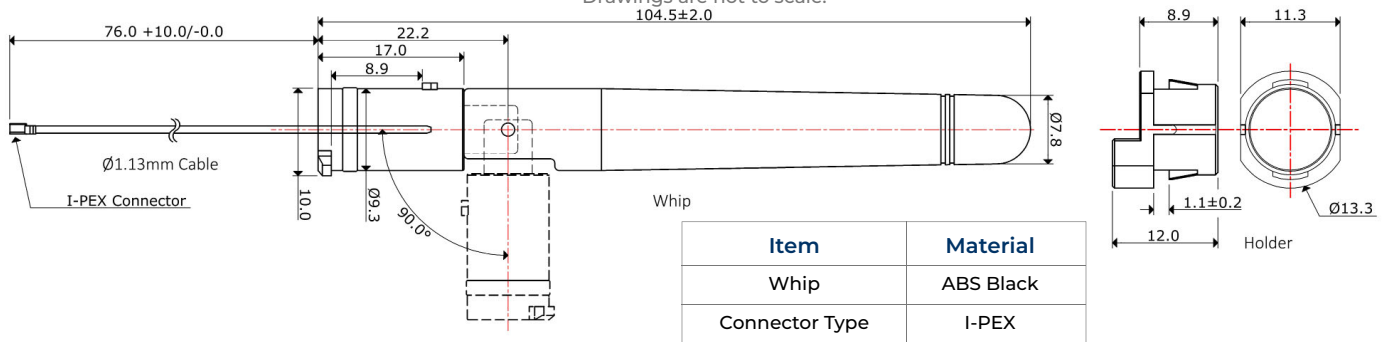
* Where letters denote decimal location (A=.0, B=.1, C=.2, etc.); e.g. B5=0.15, 3A5=3.05, 9A=9.0

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	2400		2500	
Impedance	Ω		50		
Polarization			Vertical		
Peak Gain	dBi		2.0		At 2450MHz
Efficiency	%		66.7		At 2450MHz
VSWR				2.0	At Center Frequency
Operating Temperature	°C	-20		65	

Electrical Parameters	Units	Minimum	Typical	Maximum	Remarks
Frequency Band	MHz	5150		5850	
Impedance	Ω		50		
Polarization			Vertical		
Peak Gain	dBi		3.0		At 5550MHz
Efficiency	%		56.5		At 5550MHz
VSWR				2.0	At Center Frequency
Operating Temperature	°C	-20		65	

Outline Drawing

All dimensions are in millimeters (mm) unless otherwise noted.
Drawings are not to scale.



Item	Material
Whip	ABS Black
Connector Type	I-PEX
Connector	Brass

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Specifications are subject to change without notice.

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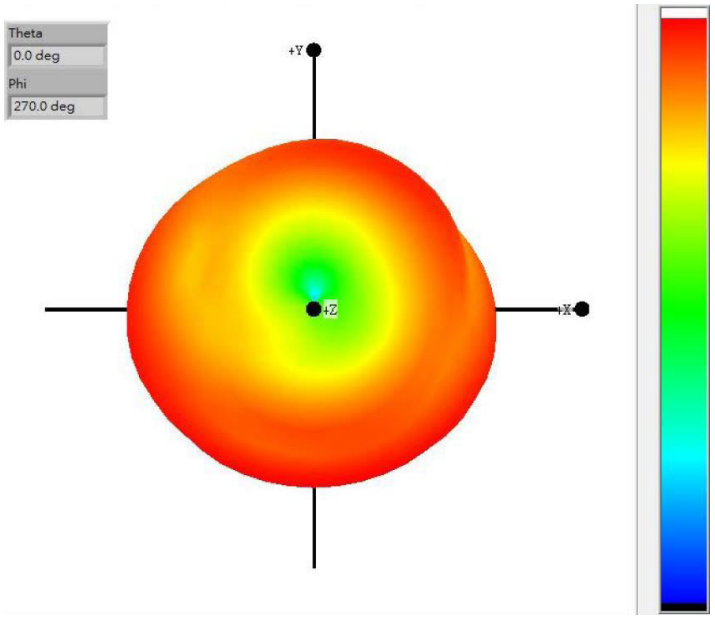
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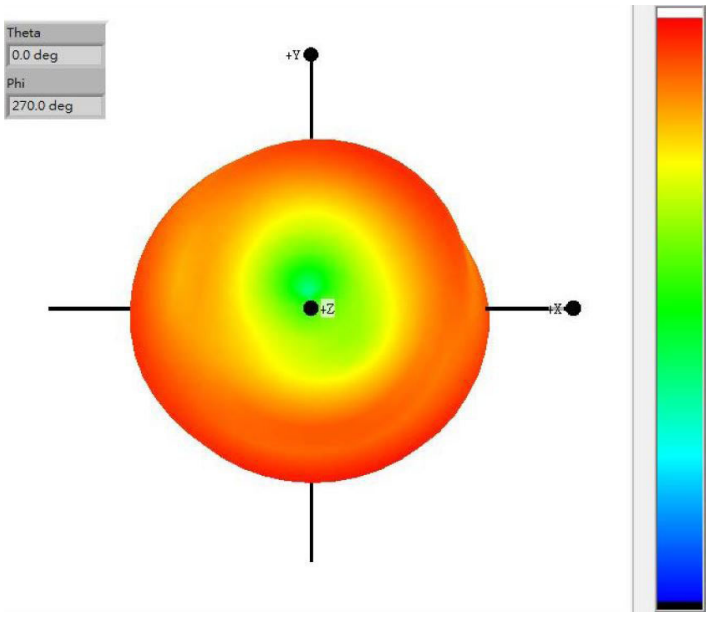
3D Radiation Pattern (Unit: dBi)

2400MHz



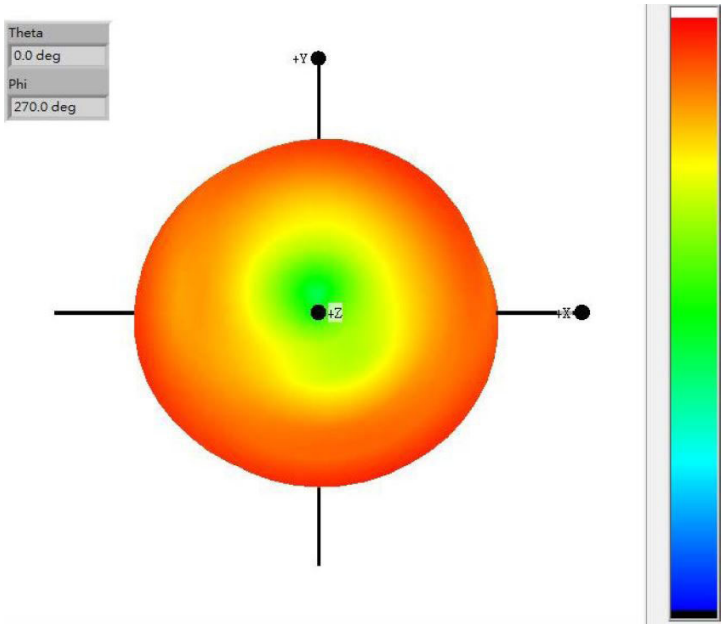
3D Radiation Pattern (Unit: dBi)

2450MHz

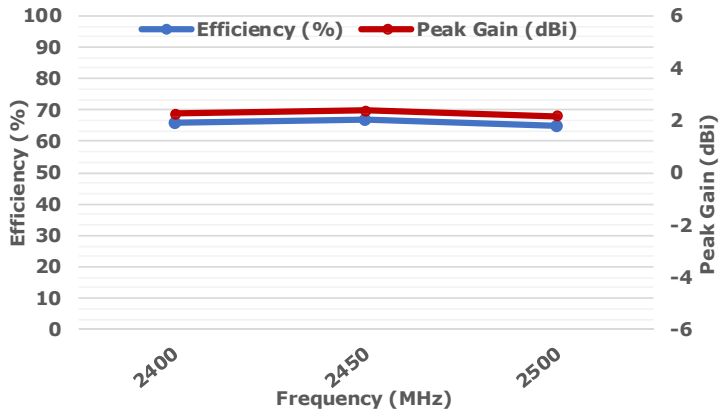


3D Radiation Pattern (Unit: dBi)

2500MHz



Efficiency vs Frequency



Frequency	2400	2450	2500
Efficiency	65.68	66.78	64.89
Peak Gain	2.25	2.38	2.16

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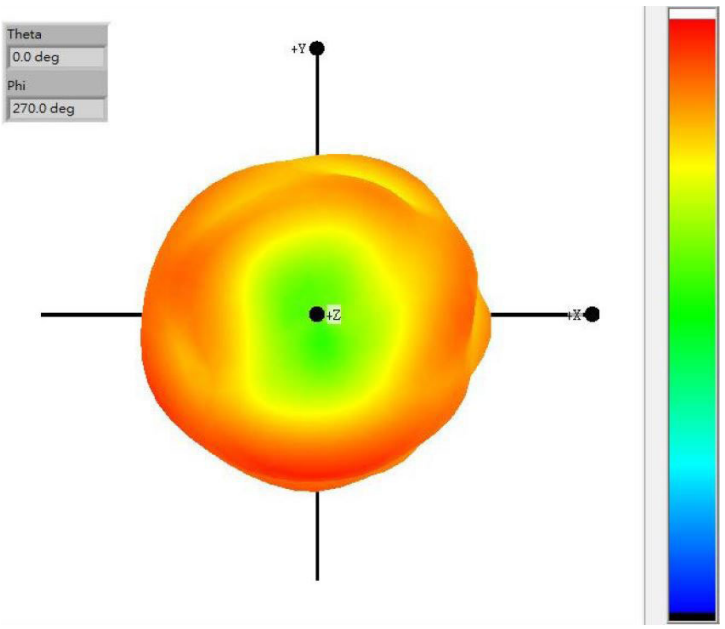
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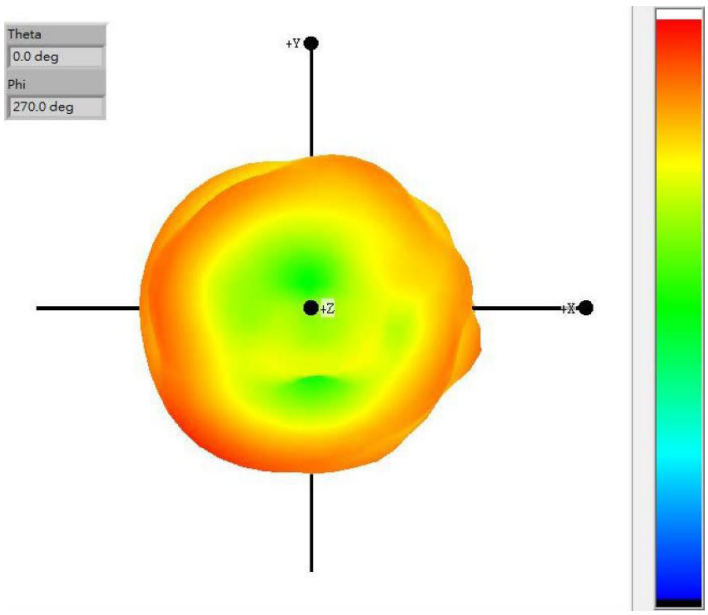
3D Radiation Pattern (Unit: dBi)

5150MHz



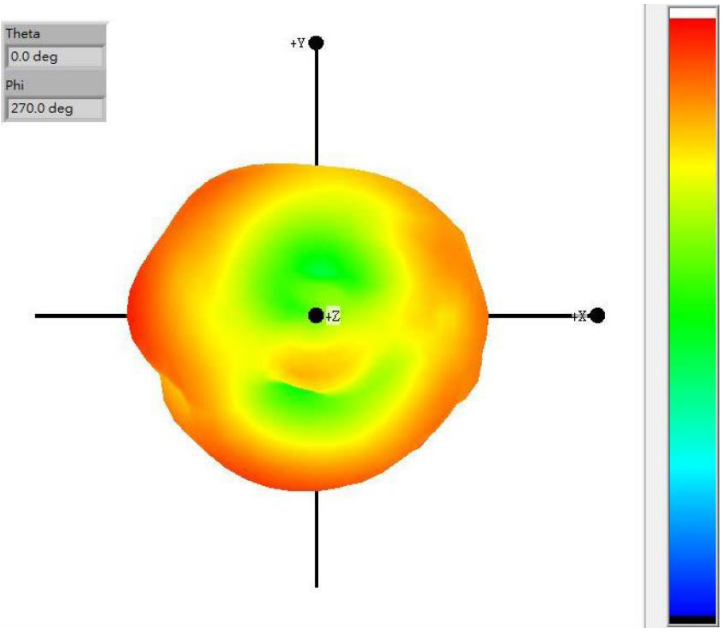
3D Radiation Pattern (Unit: dBi)

5550MHz

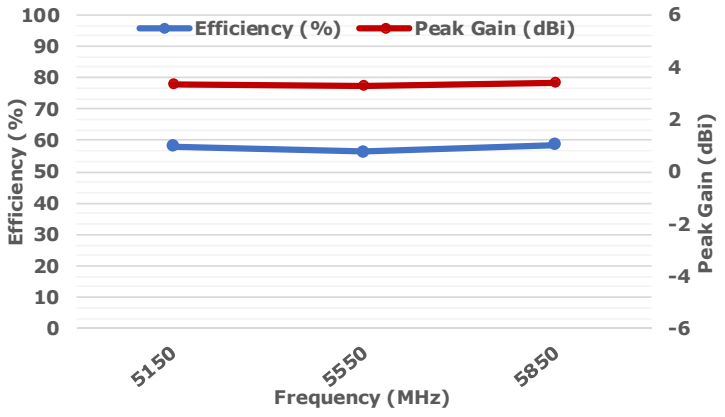


3D Radiation Pattern (Unit: dBi)

5850MHz



Efficiency vs Frequency



Frequency	5150	5550	5850
Efficiency	58.06	56.46	58.51
Peak Gain	3.34	3.28	3.41

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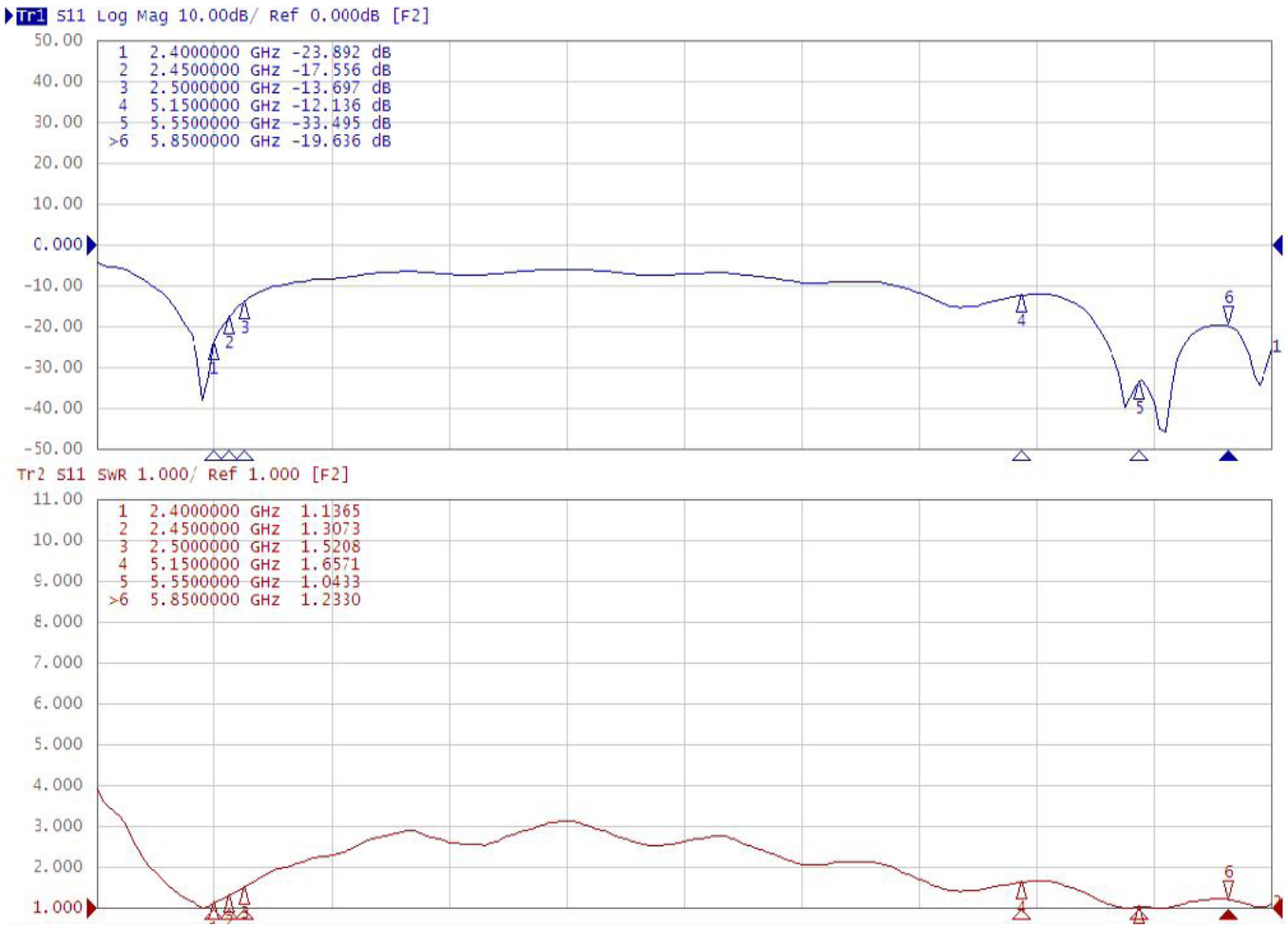
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Electrical Test

Return Loss & VSWR



Environmental & Mechanical Specifications	
High Temperature Test	70°C for 48 hours, and then to normal temperature/humidity High Temperature Test for 24hours.
Low Temperature Test	-20°C for 48 hours, and then to normal temperature/humidity for 24hours.
Humidity Test	65°C / 90%RH for 48 hours, and then to normal temperature/humidity for 24hours.
Thermal Shock Test	-20°C for 30 min and +70°C for 30 min. 48 cycles, then expose to normal temperature/humidity for 24 hours or more.

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