

2.4 GHZ CERAMIC PATCH

FULUb

2.4 GHz Ceramic Patch Antenna with Cable

SZA-N-4W26

FREQUENCY
2400 to 2500 MHz

PEAK GAIN
3.30 dBi

CONNECTOR
MHF1, 120 mm

SIZE
25.0 × 25.0 × 6.5 mm

2.4 GHZ

2400 to 2500 MHz

Covers Wi-Fi, Bluetooth, ISM, Zigbee

Key Features

- Wi-Fi / Bluetooth: 2400 to 2500 MHz
- >63% efficiency
- Dimensions: 25.0 × 25.0 × 6.5 mm
- Cable length: 120 mm, 1.13 mm Ø
- Connector: MHF1 (U.FL compatible)
- RoHS compliant

1 Introduction

Introducing the FULUb (SZA-N-4W26), a high-performance 2.4 GHz ceramic patch antenna designed to meet the demands of modern industrial and wireless applications. Measuring just 25 × 25 × 6.5 mm and equipped with a 120 mm MHF1 cable, this compact antenna ensures seamless integration.

Optimized for Wi-Fi, ISM, and Zigbee bands, FULUb delivers exceptional directional gain, making it ideal for fixed wireless applications and specialized uses such as drone wireless controllers. Its focused performance ensures reliable communication, whether in industrial environments like wireless meters mounted on reinforced concrete walls or in aerial systems where precise signal transmission is crucial.

The FULUb antenna also offers the versatility to be positioned anywhere on the device's ground-plane, providing unmatched flexibility for cutting-edge drone technology and other high-performance applications.

— Features

- ◆ Wi-Fi / Bluetooth: 2400 to 2500 MHz
- ◆ >63% efficiency
- ◆ Dimensions: 25.0 × 25.0 × 6.5 mm
- ◆ Cable length: 120 mm, 1.13 mm Ø
- ◆ Connector: MHF1 (U.FL compatible)
- ◆ RoHS compliant

2 Mechanical Specifications

Part Number	SZA-N-4W26
Name	FULUb
Dimensions (mm)	25.0 × 25.0 × 6.5
Weight	<12 g
Antenna Type	Ceramic Patch + Cable
Cable Length (mm)*	120.0, 1.13 Ø
Connector*	MHF1 (U.FL Compatible)
Part Number with Cable and Connector	SZA-N-4W26-120-01

*Alternate cable length and connectors available on request

3 Electrical / RF Specifications

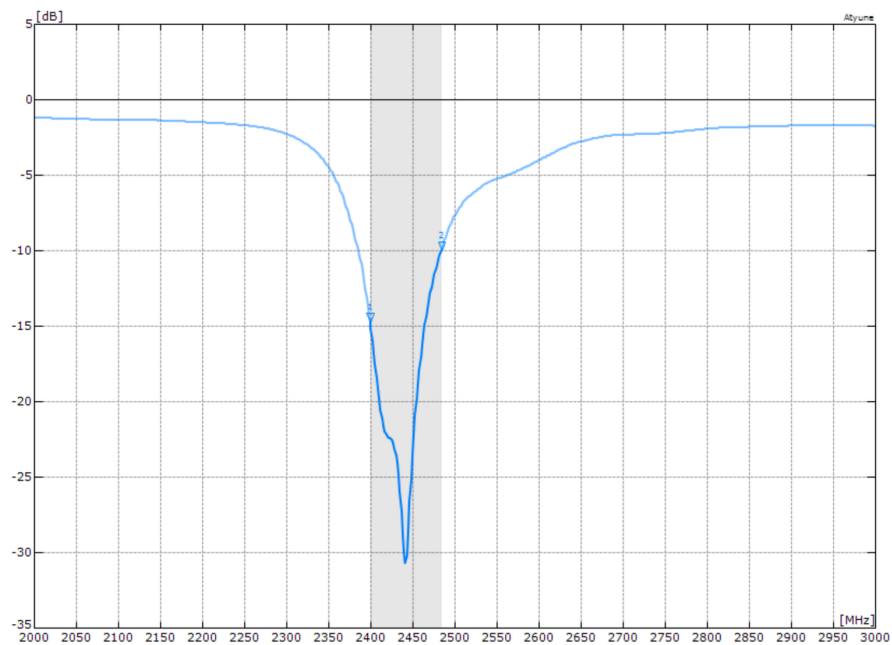
Band	Frequency Range (MHz)	Efficiency (%)	Peak Gain (dBi)	VSWR	Impedance
Wi-Fi 2 GHz	2400 to 2500	>63	3.30	1.93:1	50 Ω

4 Environmental

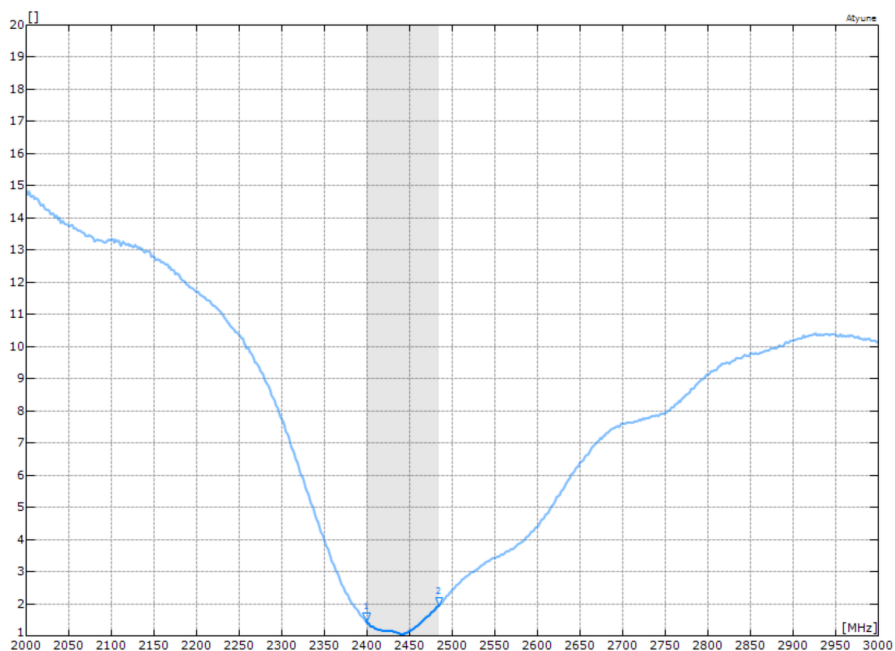
Operational Temperature	-40 to +85°C
Storage Temperature	-40 to +85°C
Relative Humidity (Storage)	65 ±20% RH
Moisture Sensitivity Level (MSL)	1
RoHS and REACH compliant	Yes

5 RF Characteristics

S11 Parameter

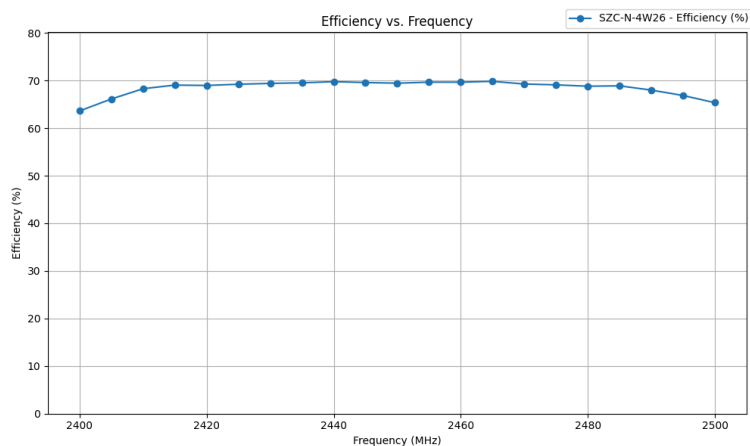


VSWR

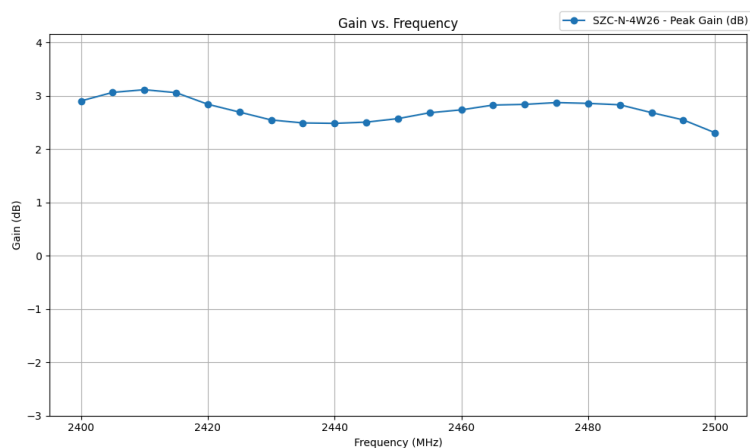


6 Antenna Performance

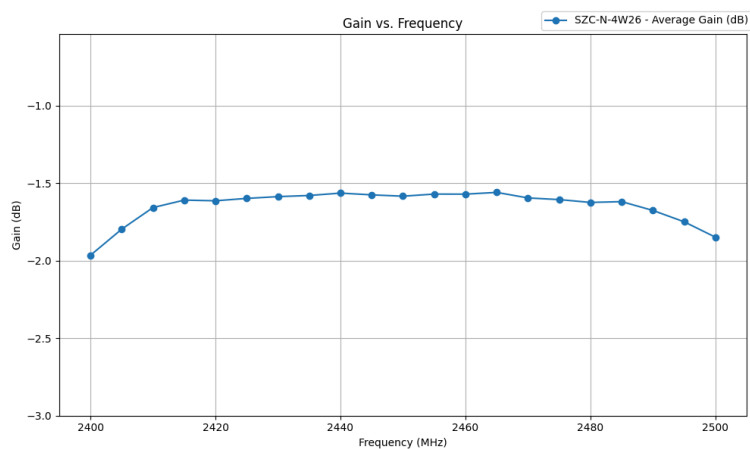
Efficiency



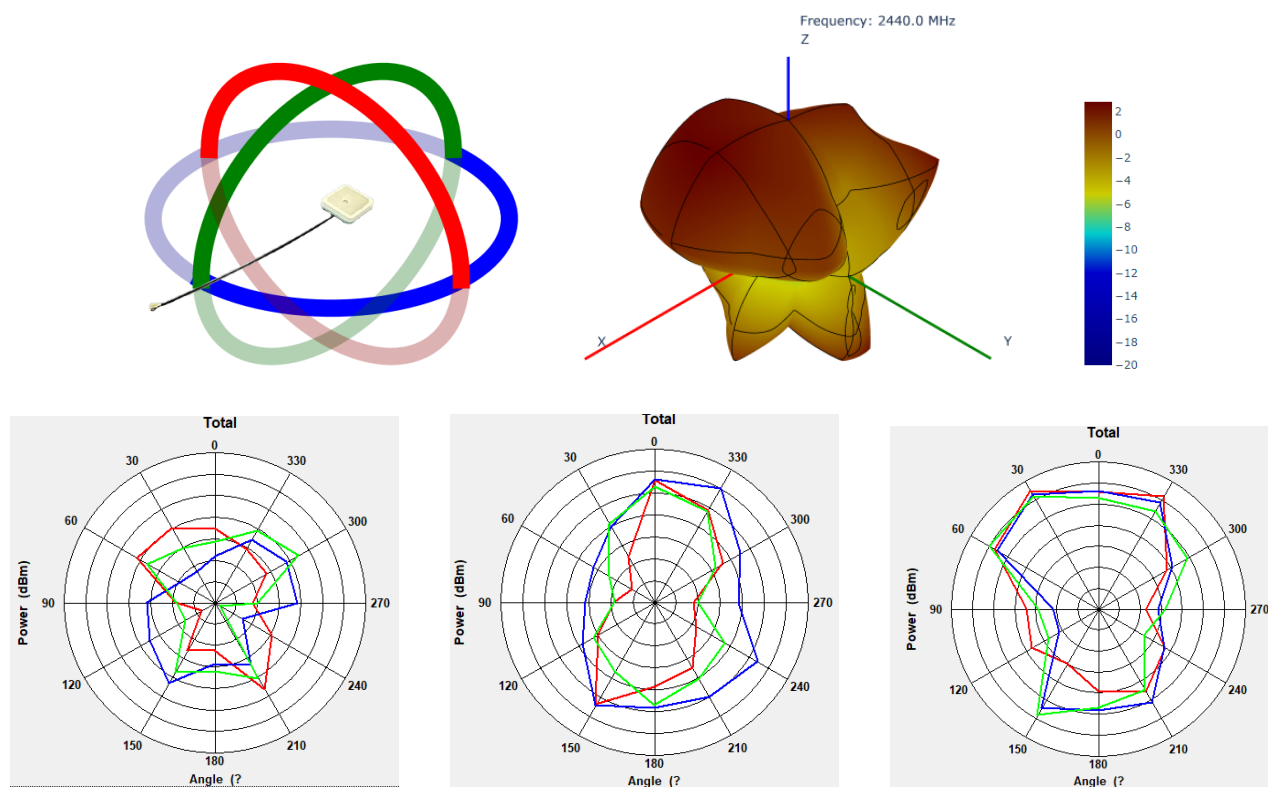
Peak Gain



Average Gain

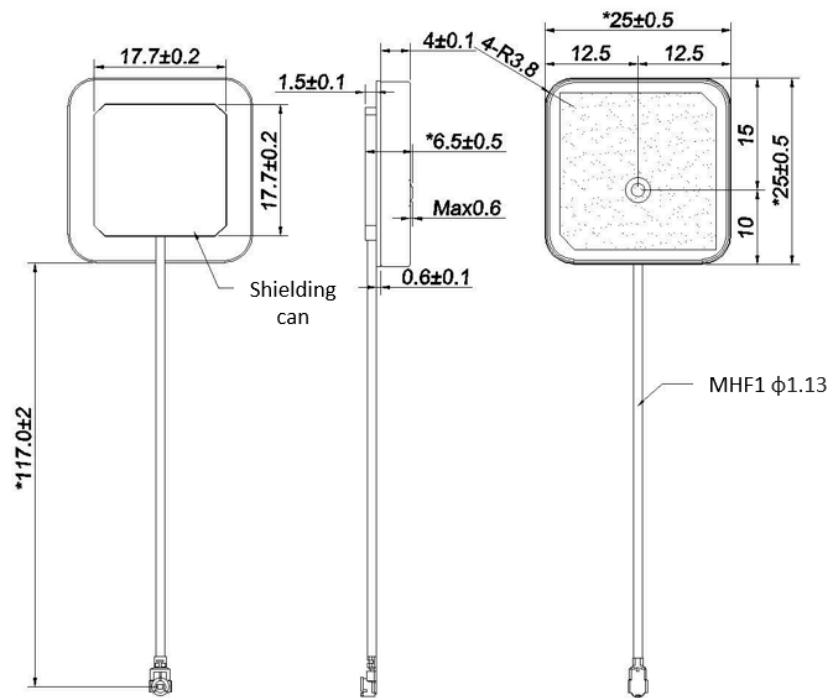


7 Radiation Patterns at 2440 MHz



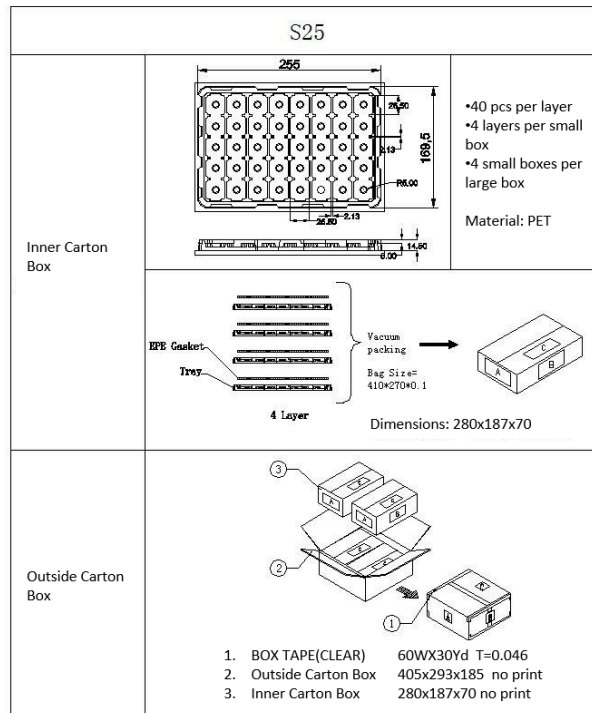
8

Mechanical Drawing



All dimensions in mm

9 Packaging



10 Compliance

ROHS

Compliant

Conforms to EU RoHS Directive 2011/65/EU as amended by Delegated Directive (EU) 2015/863.

REACH

Compliant

Conforms to EU REACH Regulation (EC) No 1907/2006.

CERTIFICATE

On request

A certificate of conformance is available upon request from sales@synzen.com.tw.

Synzen Precision Technology Ltd makes no warranties based on the accuracy or completeness of the contents of this document and reserves the right to make changes to specifications and product descriptions at any time without notice. Synzen reserves all rights to this document and the information contained herein. Reproduction, use or disclosure to third parties without express permission is strictly prohibited.