

SZA-N-4W26

SZA-N-4W26 | Ceramic Patch Antenna | WI-FI / Bluetooth

Features:

WI-FI /Bluetooth : 2400-2500MHz

2.50dBi Peak Gain, >63% Efficiency

Dimensions: 25.0 x 25.0 x 6.5 mm

Cable Length: 120mm, 1.13mm Ø

Connector: MHF1 (U.FL Compatible)

RoHs compliant

Contents

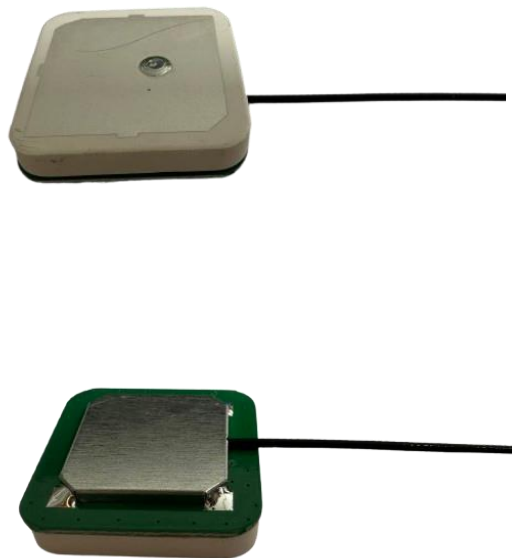
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Introduction

Introducing the FULUb (SZA-N-4W26), a high-performance 2.4GHz ceramic patch antenna designed to meet the demands of modern industrial and wireless applications. Measuring just 25x25x6.5mm and equipped with a 120mm 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.



Mechanical Specifications

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

*Alternate cable length and connectors available upon request

Electrical / RF Specifications

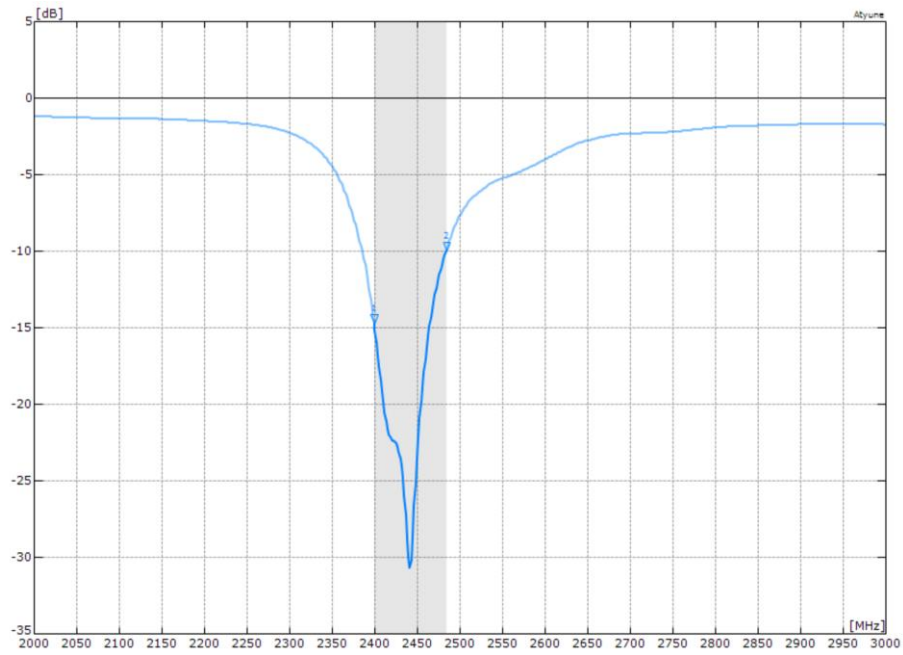
Band	Frequency Range (MHz)	Efficiency (%)	Peak Gain (dBi)	VSWR	Impedance
Wi-Fi 2GHz	2400-2500	>63	3.30	1.93:1	50 Ω

Environmental

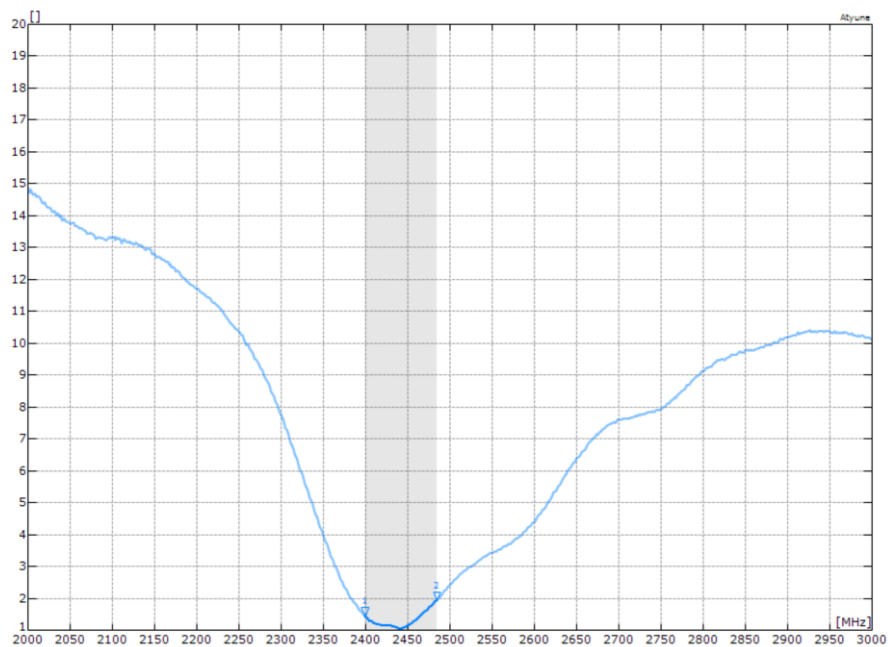
Parameter	
Operational Temperature	-40 to +85
Storage Temperature	-40 to +85
Relative Humidity (Storage)	65 \pm 20% RH
Moisture Sensitivity	1
RoHs and REACH compliant	Yes

RF Characteristics

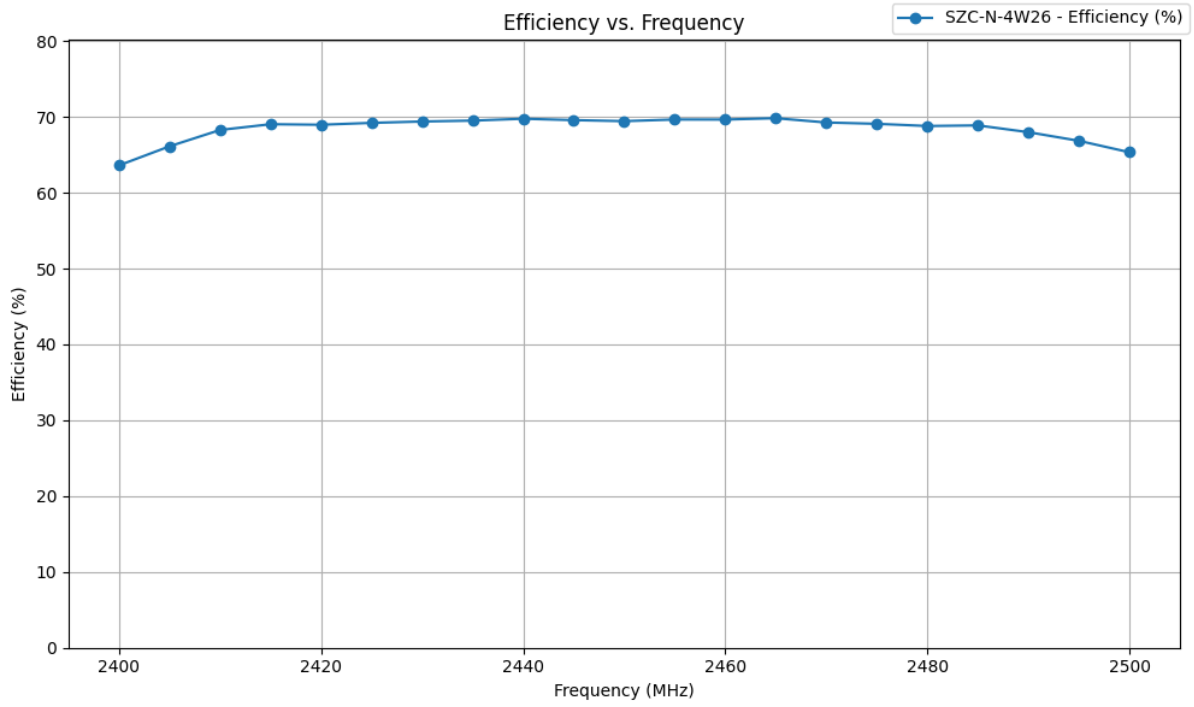
Return loss



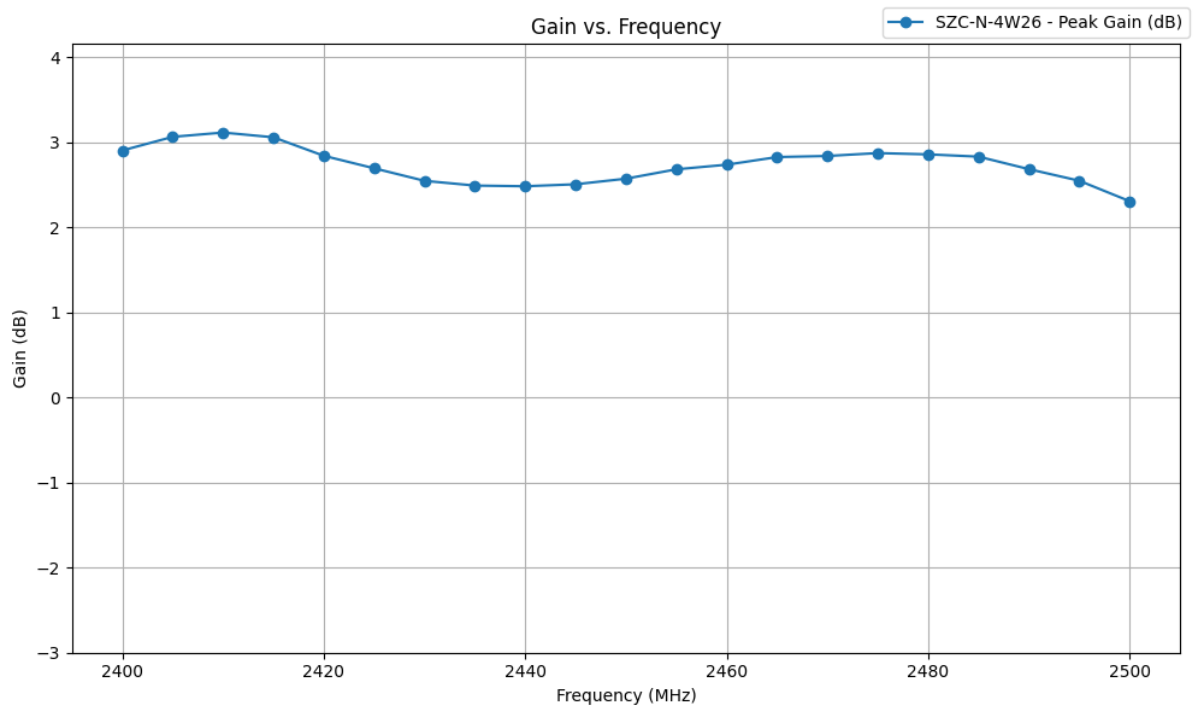
VSWR



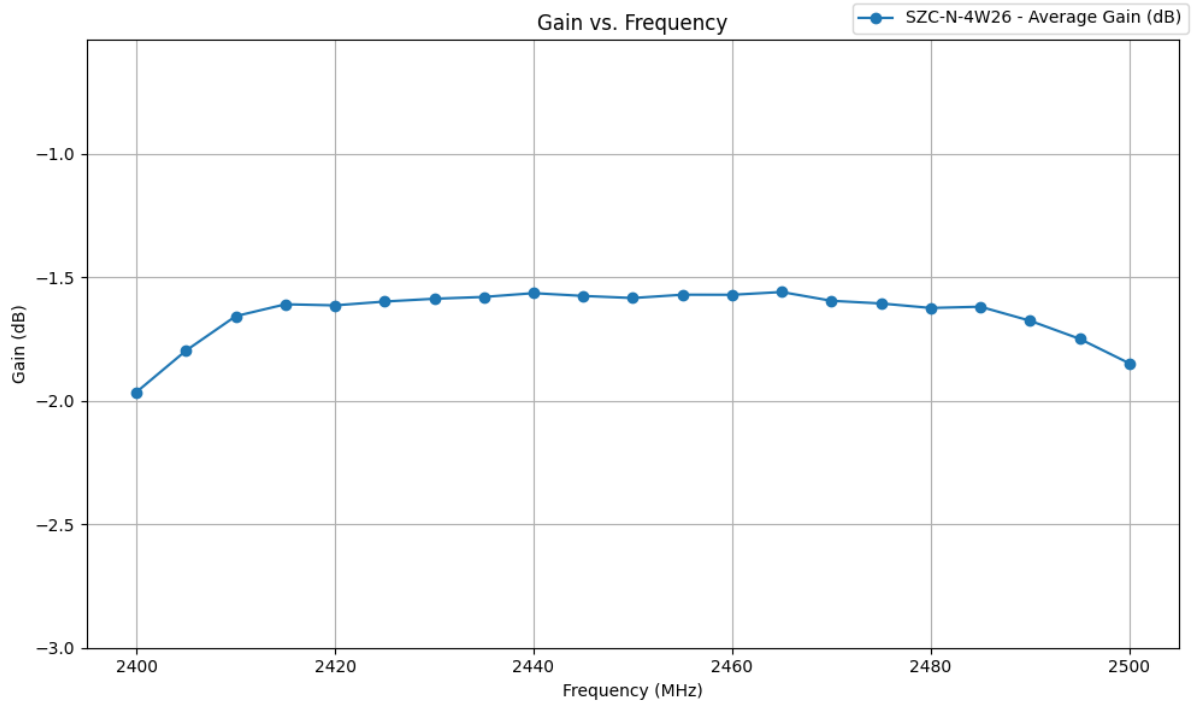
Efficiency



Peak Gain

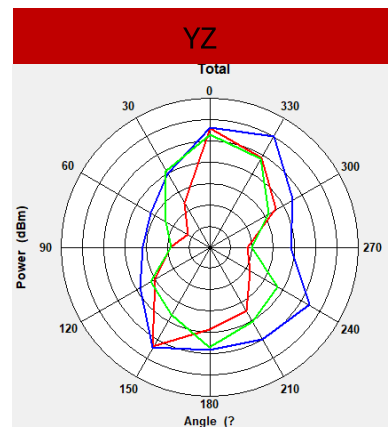
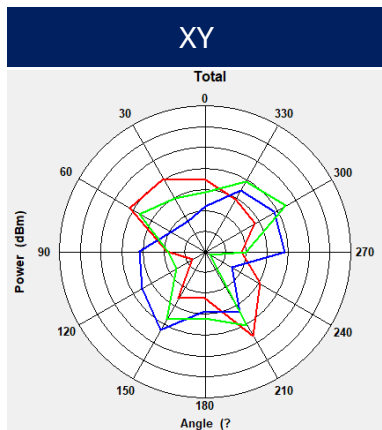
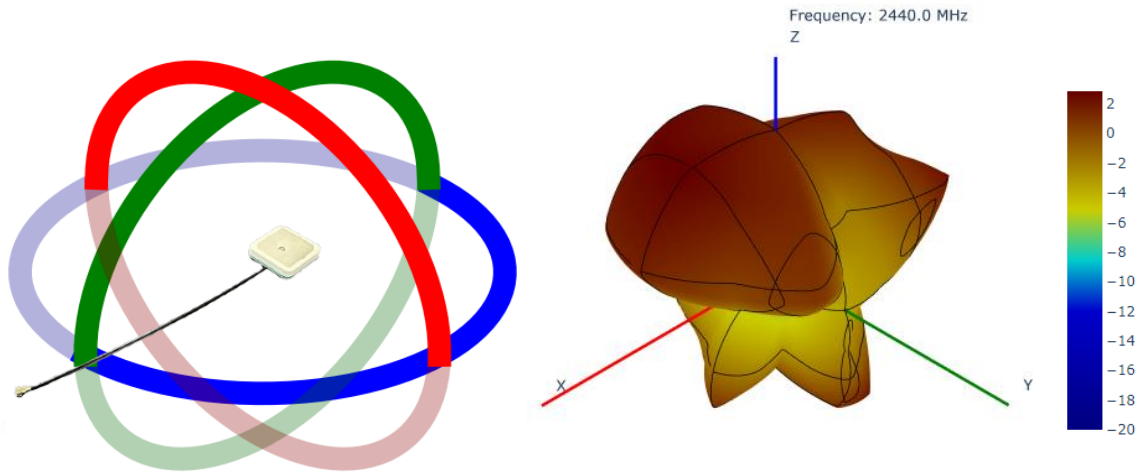


Average Gain



RF Radiation Patterns

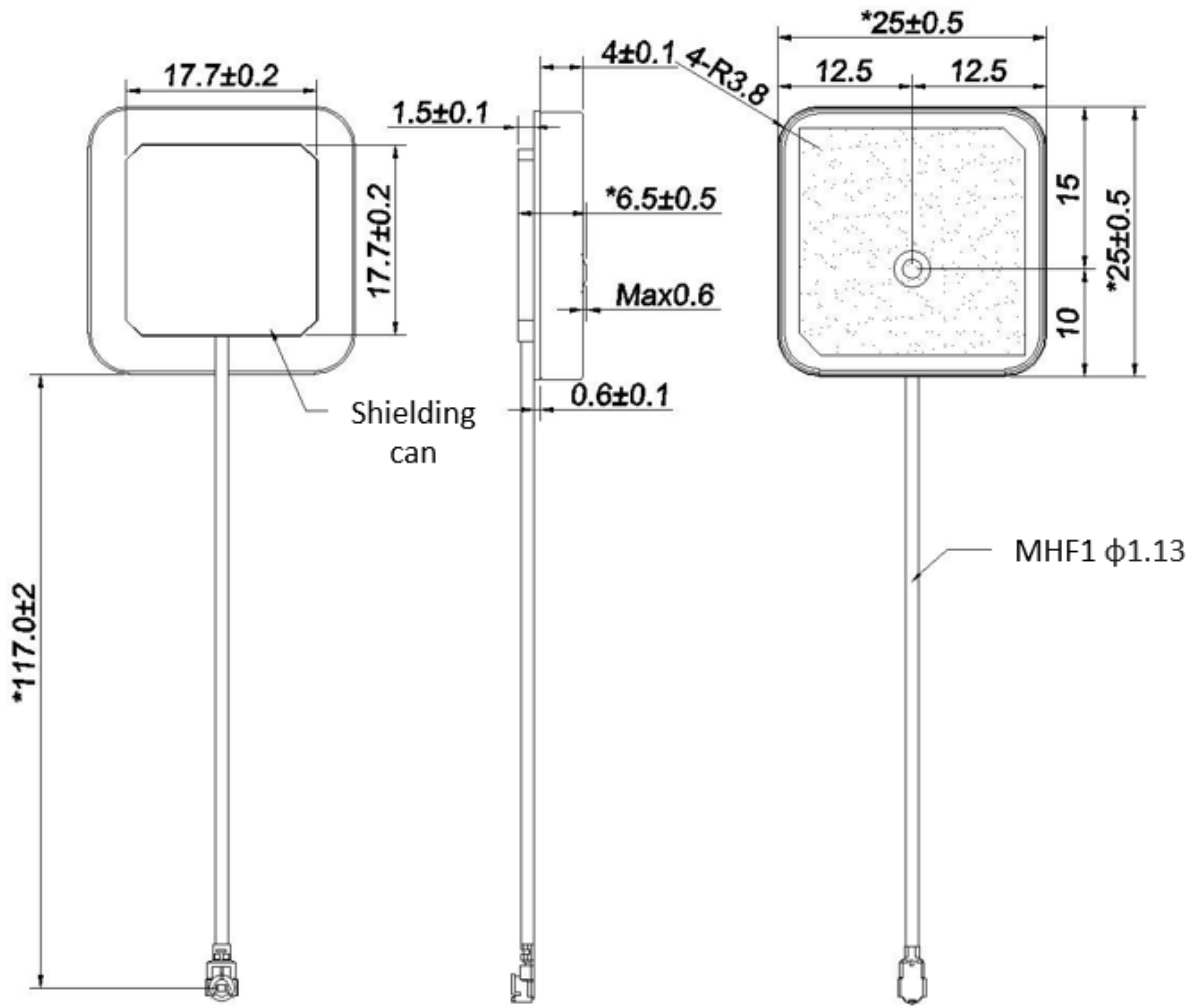
RF Radiation Patterns at 2440MHz



Max: 4
Min: -10
Scale: 2/div

2400
2440
2500

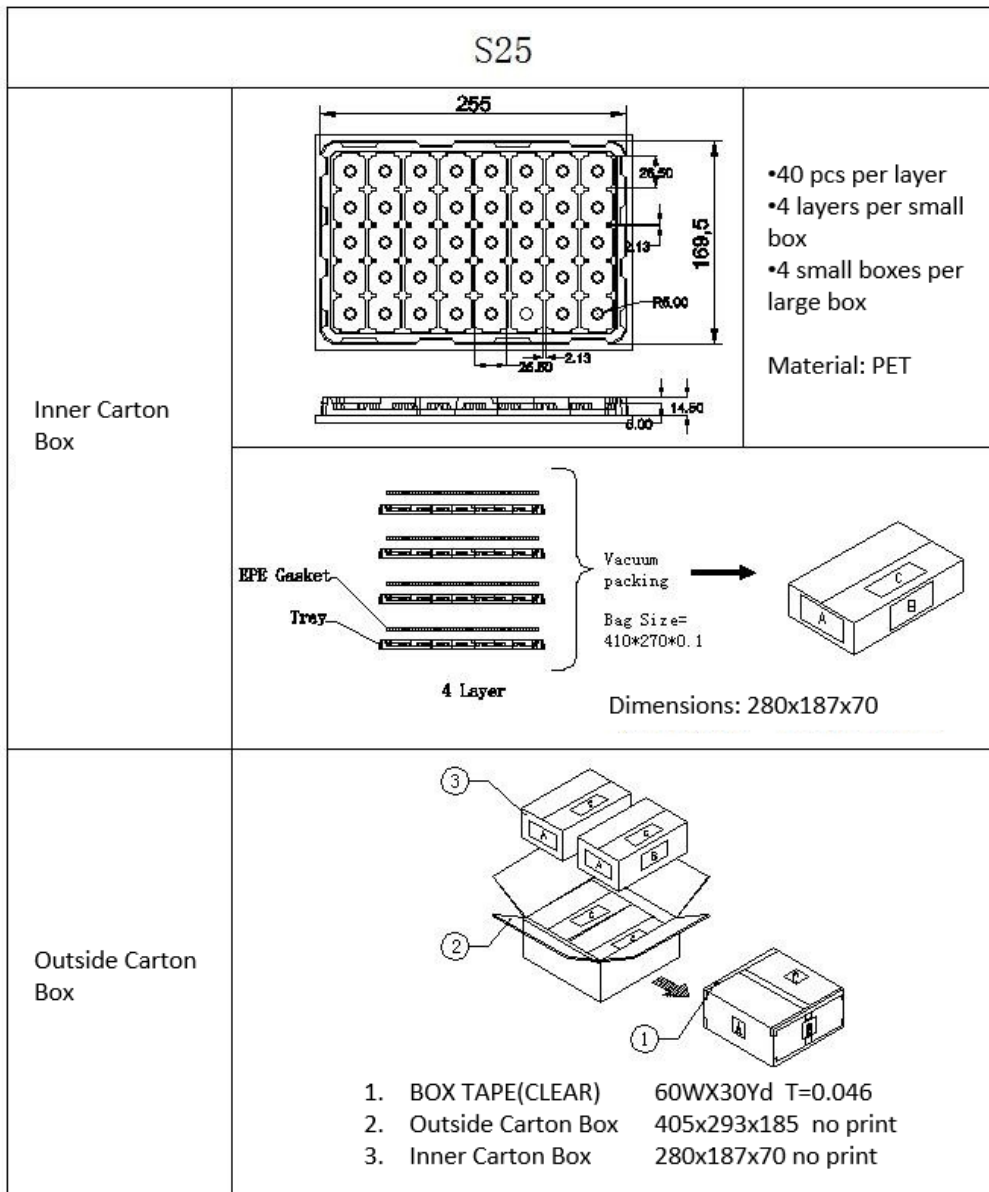
Mechanical Drawing



Unit: mm

Packaging

FULUb



Material Regulation

The antenna has been assessed to conform to RoHS requirements. A certificate of conformance is available upon request.

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