

# SDARS External Antenna



AEACBA045015-S2332



45.2 x 35.8 x 15.1 mm  
RoHS/RoHS II Compliant  
MSL = N/A: Not Applicable

## Features

- Low VSWR 1.5
- High Gain 3 dBic
- Left-hand circular polarization
- Active antenna with integrated LNA
- High LNA gain of 34 dB
- IP67 rated
- Adhesive mounting

## Applications

- Use with Satellite Digital Audio Radio Services (SDARS)
- Satellite Radios
- Digital Radio Service

## Electrical Specifications

ANTENNA					
Parameters	Min.	Typ.	Max.	Units	Notes
Operating Frequency		2320 ~ 2345		MHz	
Bandwidth		25		MHz	
VSWR			1.5		
Gain		3		dBic	
Axial Ratio			3	dB	
Polarization		LHCP			
Impedance		50		$\Omega$	
LNA					
LNA Gain		34 $\pm$ 2		dB	
Noise Figure			1	dB	
VSWR			2		
Supply Voltage	3		5	V	DC
Current Consumption			40	mA	

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## Mechanical Specifications

Parameters	Description
Cable Type	RG-174
Cable Length	3 m
Connector	SMA
Radome Material	ABS
Mounting Type	Adhesive

## Environmental Specifications

Parameters	Description
Operating Temperature	-40 °C to +85 °C
Relative Humidity	Up to 95 %
Ingress Protection	IP67
Vibration	10 ~ 55 Hz with 1.5 mm amplitude 2 hours

# SDARS External Antenna

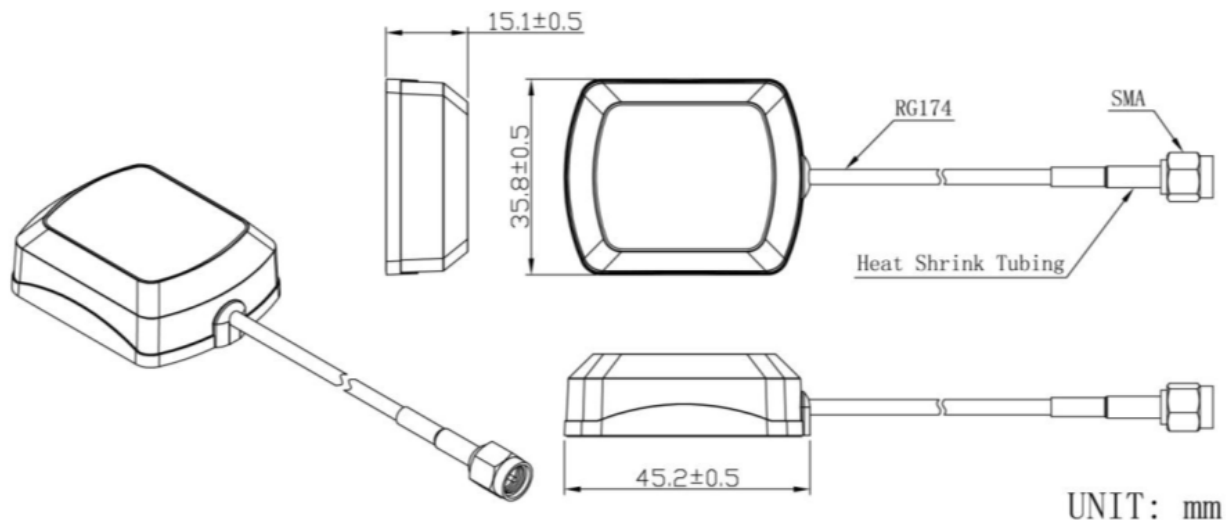


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## Product Dimensions



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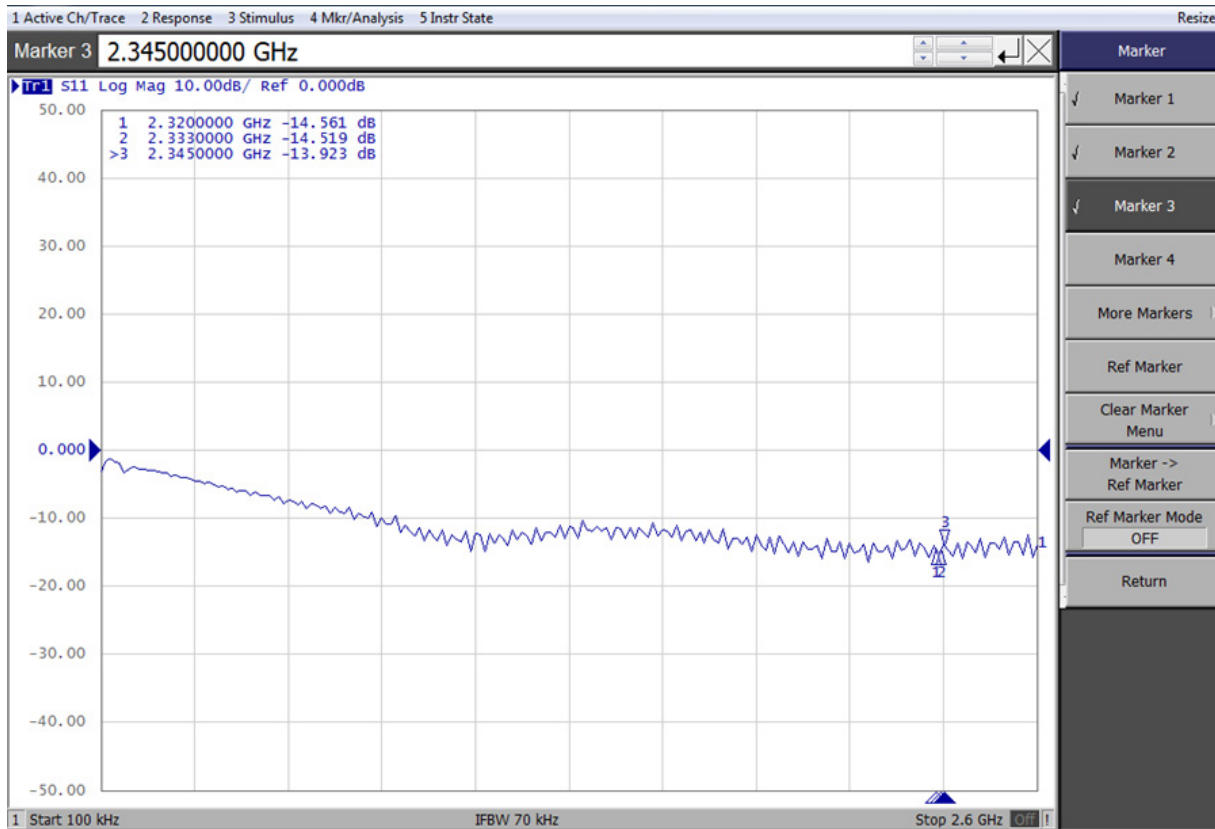


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## Return Loss



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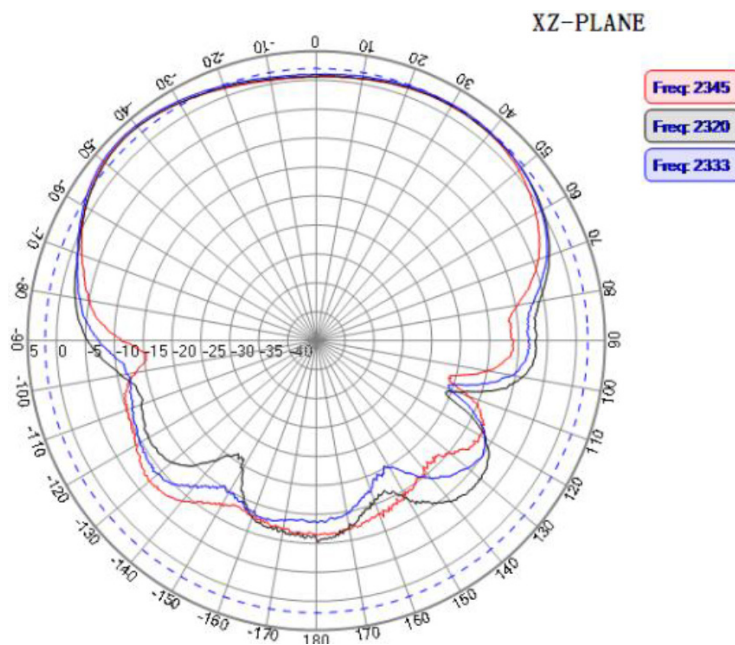
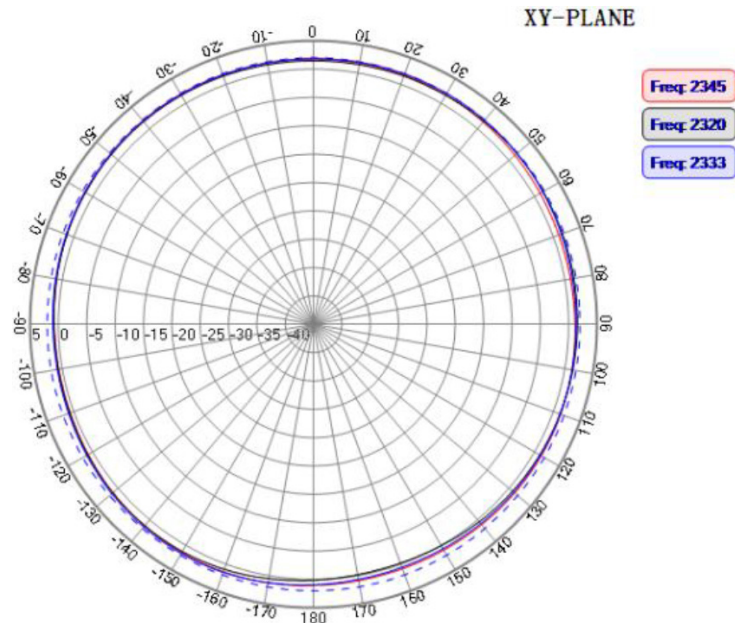
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## Radiation Pattern

### 2D - Pattern



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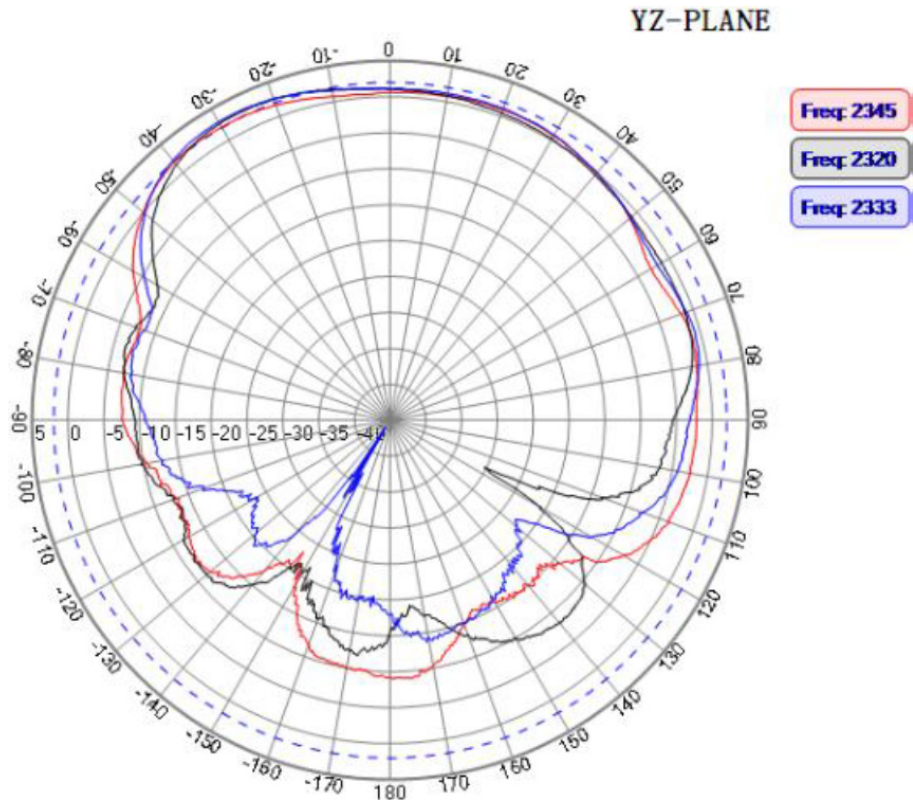
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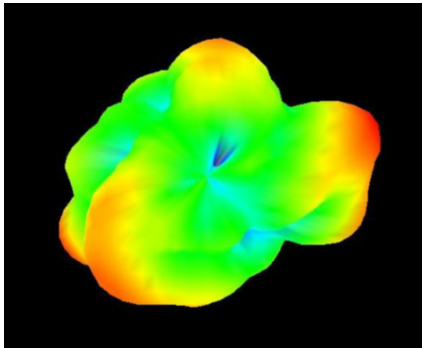


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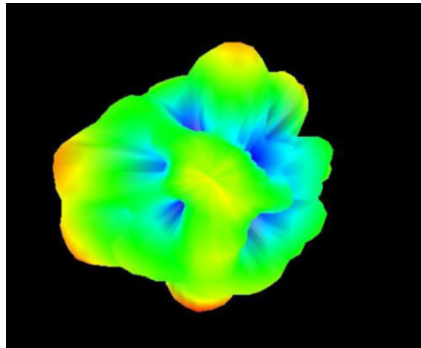
## Radiation Pattern

### 3D - Pattern

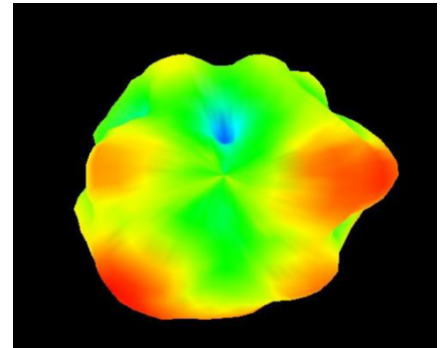
2320 MHz



2333 MHz



2345 MHz



## Packaging

A carton holds 200 pcs of antenna. Each carton is of dimension 49 x 23 x 27 cm and weighs 15 Kg.

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