

# BS DIP 3-24

The BS DIP 3-24 is 3dBi dipole omnidirectional antenna operating at 2.4GHz for applications including Wi-Fi, Bluetooth and Zigbee. The high quality and robust design antenna serve as a solution for internal and external usage.



## Specification

Table 1: BS Dip 3-24 Antenna Parameters.

Parameter	Details	Unit
Application	Wi-Fi, Bluetooth and Zigbee	
Operating Frequency	2.4 to 2.5	GHz
Feed Impedance	50	$\Omega$
S11 @ 2.4GHz	-22.1	dB
S11 @ 2.5GHz	-23.7	dB
Peak Gain	3.16	dBi
Efficiency	75	%
Power Handling	1	W
Interface	RP-SMA Male	
Weight	13	g
Dimension	137 x 10 x 31.5	mm
Temperature	-30° to +70°	C
Humidity Range	5 to 95	%
Tilt	90°	
Type	Whip	

# Measurements

## VSWR and $S_{11}$

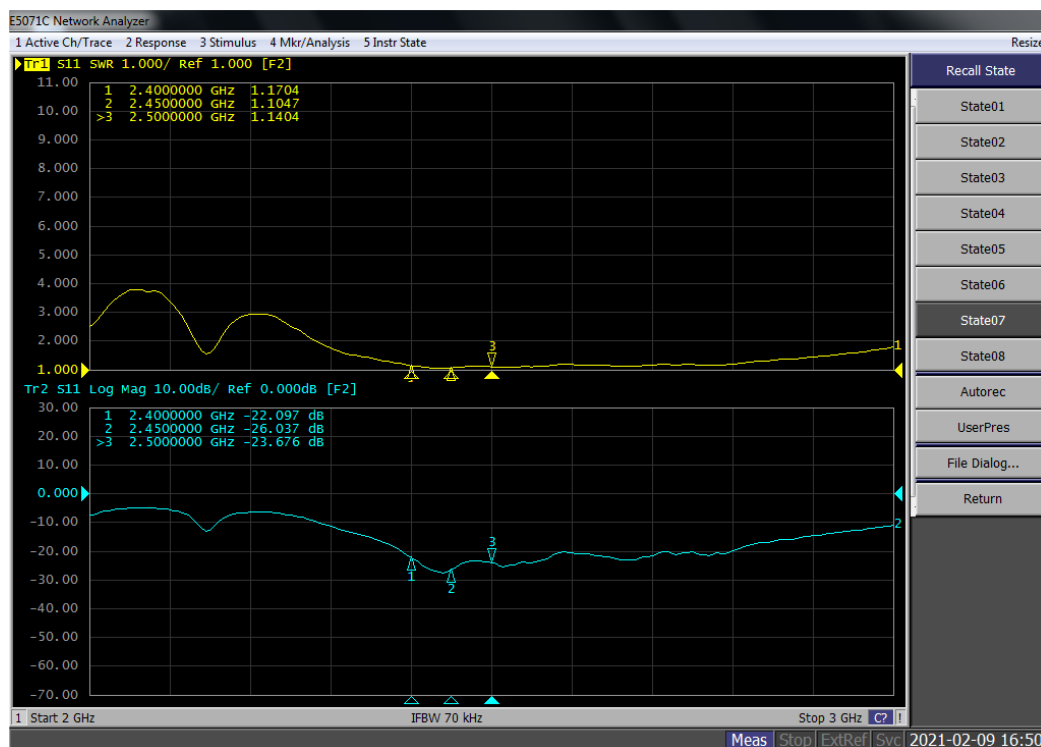


Figure 1: BS Dip 3-24 impedance measurement. Top plot for VSWR and bottom plot for  $S_{11}$ .

## Radiation Pattern

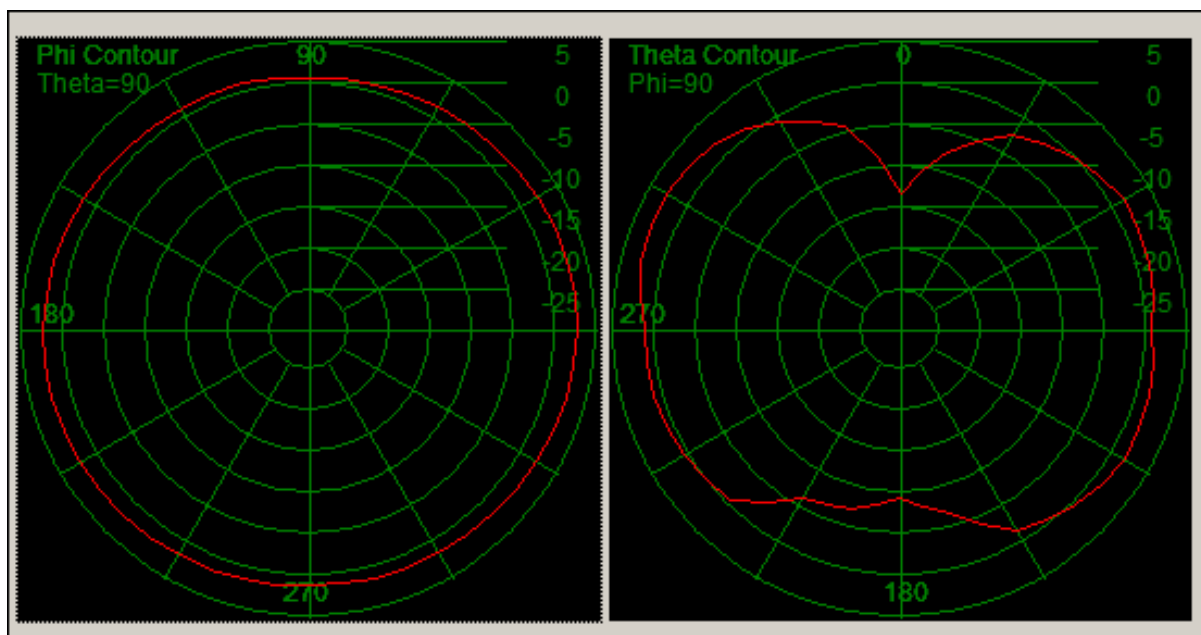


Figure 2: BS Dip 3-24 2D radiation pattern at 2.45GHz. First plot shows Horizontal and second plot shows Vertical polarization.

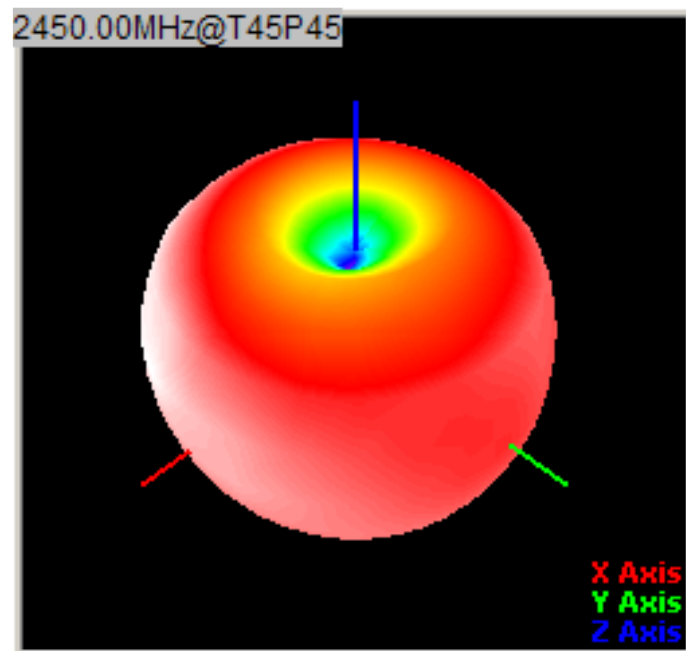


Figure 3: BS Dip 3-24 3D radiation pattern at 2.45GHz.

## Dimension

All measurements in mm. Colour Black.

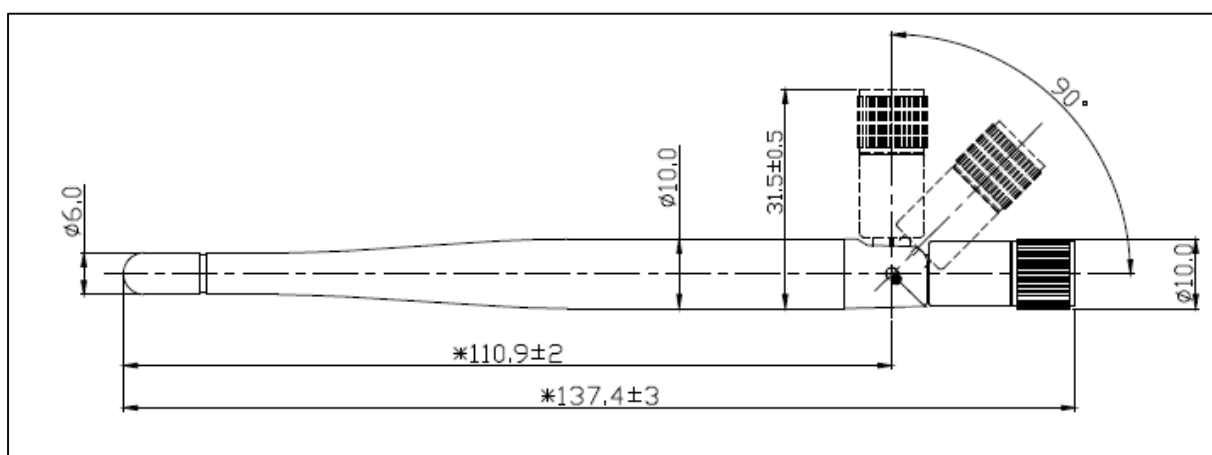


Figure 4: BS Dip 3-24 dimension.

*Note: All materials are RoHS 2.0 compliant.*