

# PCBWiFiAntenna

## Features

- ❖ Widebandwidth
- ❖ RoHScompliant

## Applications

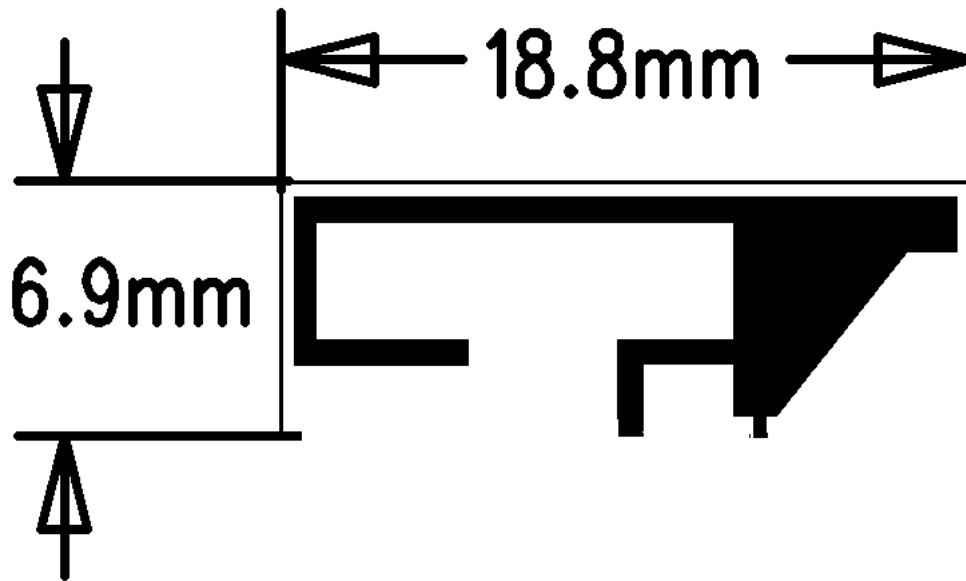
- ❖ Dual-band2.4/5.5GHzWLAN

## Specifications

Type	FrequencyRange (MHz)	PeakGain (dBtyp.)	AverageGain (dBtyp.)	VSWR	Impedance
PCB Antenna	2400~2480	1.0(XZ-Total)	-3.5(XZ-Total)	6.5max.	50Ω
	5150~5850	4.0(XZ-Total)	-2.5(XZ-Total)	4.5max.	50Ω

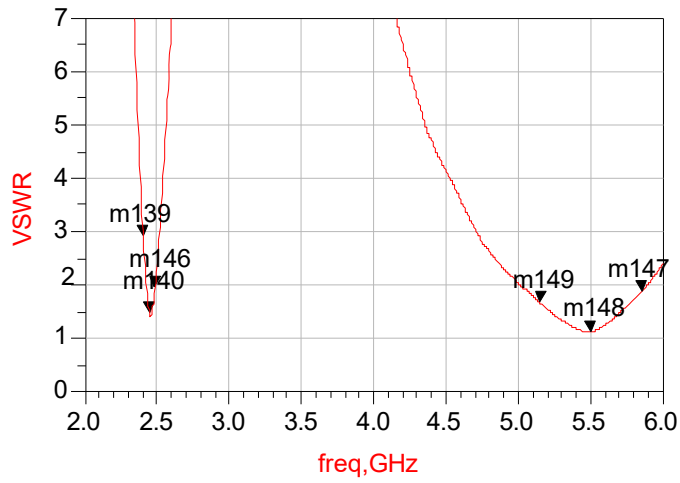
## Dimensions

Unit:mm

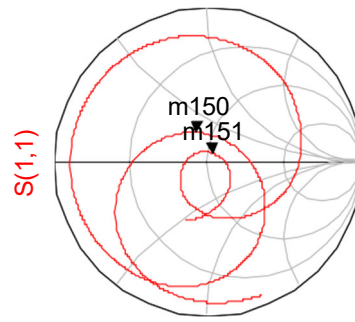


Mark	L	W	T
Dimensions	18.8±0.1	6.9±0.1	0.8max

❖ ReturnLoss(withmatching)



m139 freq=2.400GHz VSWR=2.919	m140 freq=2.442GHz VSWR=1.498	m146 freq=2.484GHz VSWR=1.944
m149 freq=5.150GHz VSWR=1.664	m148 freq=5.500GHz VSWR=1.124	m147 freq=5.850GHz VSWR=1.876



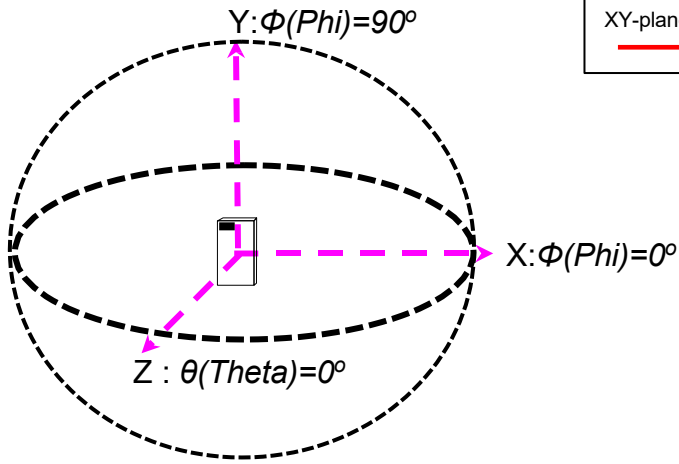
freq(2.000GHzto6.000GHz)

m150  
freq=2.442GHz  
S(1,1)=0.199 / 110.889  
impedance = 40.626 + j15.755

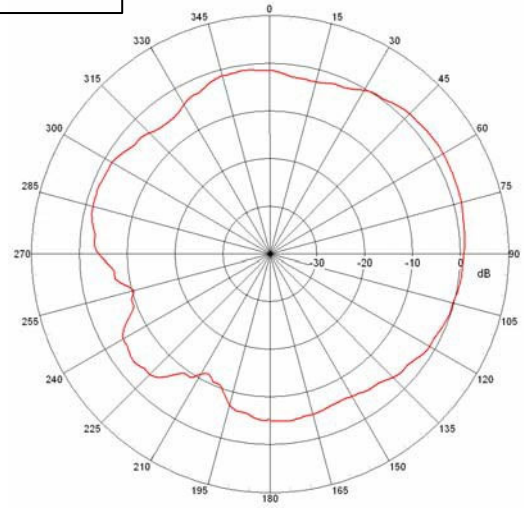
m151  
freq=5.500GHz  
S(1,1)=0.059 / 59.150  
impedance = 52.817 + j5.324

❖ RadiationPatterns@2.44GHz

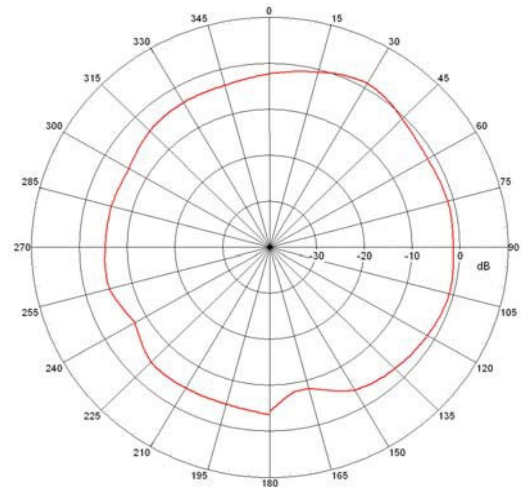
(AntennaEfficiency42%@2.4GHz;60%@2.44GHz;56%@2.48GHz)



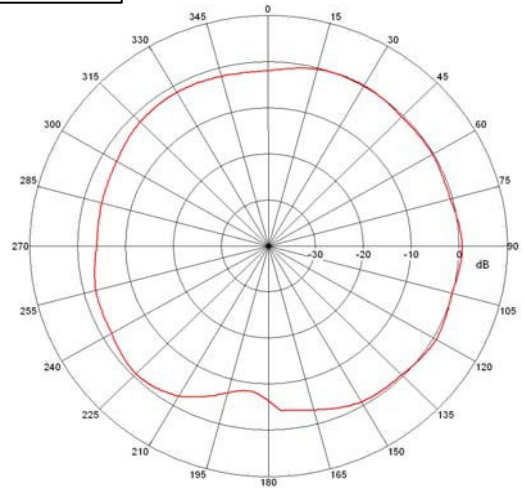
XY-plane @2440MHz  
 — Total



XZ-plane @2440MHz  
 — Total

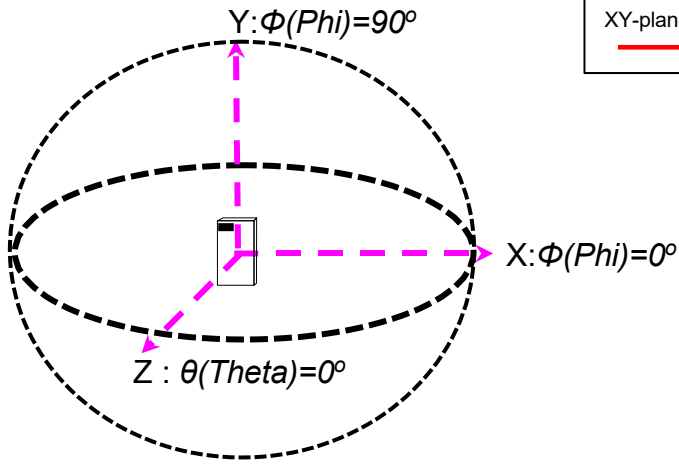


YZ-plane @2440MHz  
 — Total

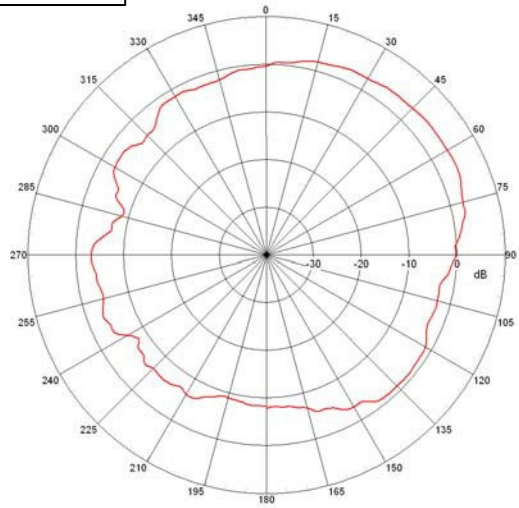


❖ RadiationPatterns@5.5GHz

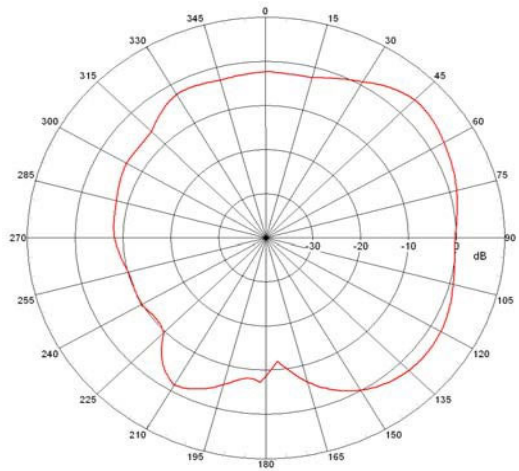
(AntennaEfficiency78%@5.15GHz;86%@5.5GHz;76%@5.85GHz)



XY-plane @5500MHz  
— Total



XZ-plane @5500MHz  
— Total



YZ-plane @5500MHz  
— Total

