

BlackChip™

Model Number:
WIC2450-A

Internal Antenna – Surface Mount

Specifications:

- Small and lightweight
- Wide bandwidth, ultra-wide band capable
- Available in tape and reel packaging
- SMT compatible including lead free processes

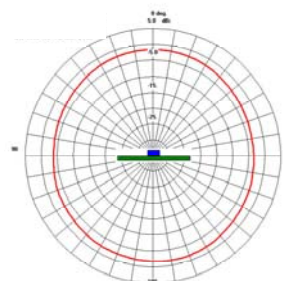
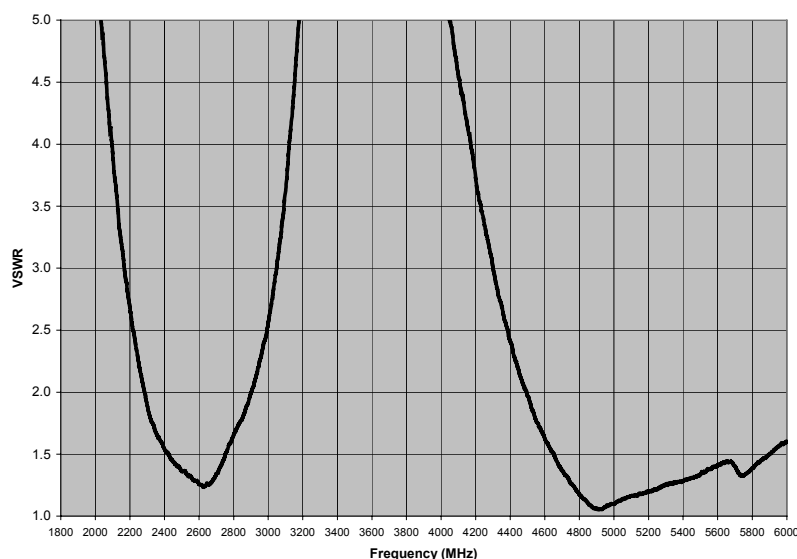
Frequency Range	2.4 – 2.5 GHz	4.9 – 6.0 GHz
Peak Gain	> 2 dBi	> 3 dBi
Polarization	Linear	
Nominal Impedance	50 ohms	
SWR (Min. Performance)	<2.0:1	
Temperature Range	-40° to +85°C	
Vibration	6G RMS (9.04g2/Hz) for 15 minutes each in vertical and horizontal. No appearance or functional change.	
Thermal Shock	Four repeated cycles of 1 hr. at +85°C and 1 hr. at -40°C. No appearance or functional change.	
Radiating Element Size	8 x 6 x 2.5 mm (L x W x H)	
Physical Mass	0.21 grams	
Length w/ Solder Tabs	12mm	



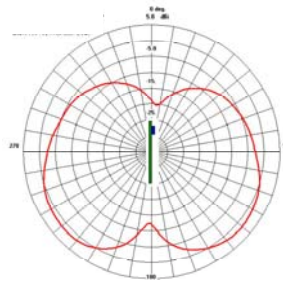
Connectors:

Model #	Part #	Description	Connector
WIC2450-A	MAF95029	Tape and Reel	N/A
WIC2452-A-SM		Ultrawide-band on eval board	SMA-female Edge-mount

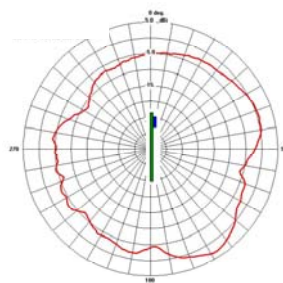
Typical VSWR performance
on evaluation PCB



Azimuth
2.45 GHz
Free Space



Elevation
phi=0
2.45 GHz
Free Space



Elevation
phi=0
5.8 GHz
Free Space

Specifications subject to change without notice.

WIC2450-A a - 8/30/04