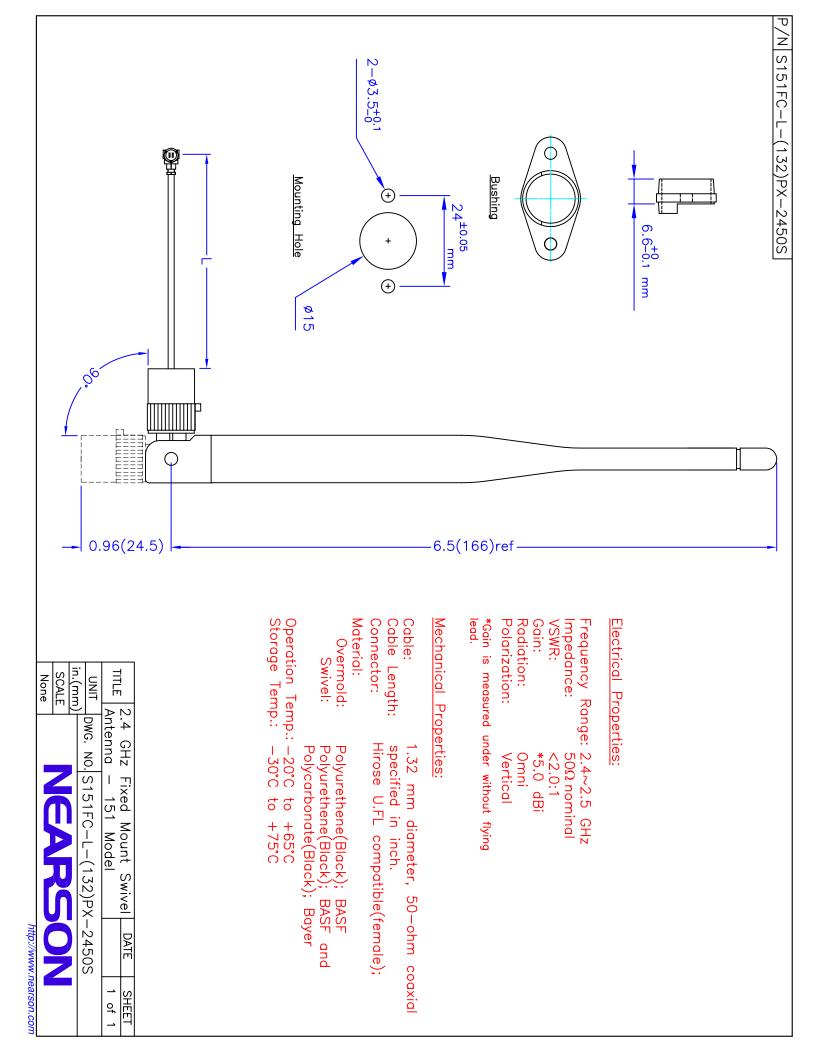
Two hardware versions:

- 1. Hardware version that uses external Nearson antenna with u.fl RF connector
- 2. Hardware version that uses the integral chip antenna WIC2450-A.

Antenna spec sheets are in following pages.





BlackChip TM

Internal Antenna – Surface Mount

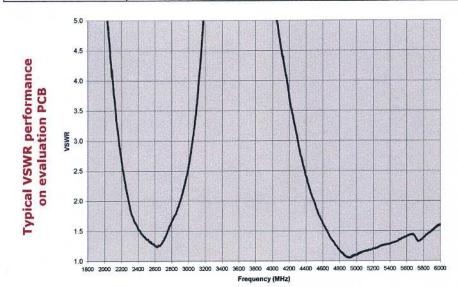
Specifications:Small and lightweight

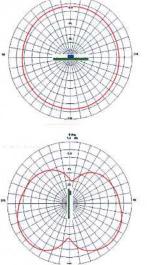
- Wide bandwidth, ultra-wide band capable
- Available in tape and reel packaging
- SMT compatible including lead free processes Conformance to European RoHS Directive 2002/95/EC

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
WIC2450-A-SM		Ultrawide-band on eval board	SMA-female Edge- mount



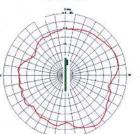




Elevation phi=0 2.45 GHz Free Space

Elevation phi=0

5.8 GHz Free Space





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Specifications subject to change without notice.

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WIC2450-A a - 12/23/05



Specifications

Model Number: WIC2450-A