

BlueChip™

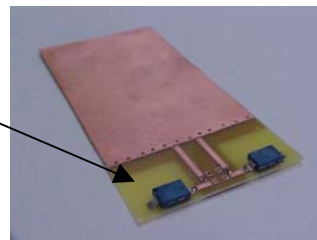
Model Number:
WIC2450-U

Internal Antenna – Surface Mount

Specifications:

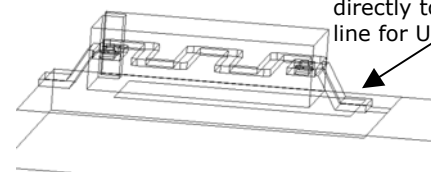
- Small and lightweight
- Wide bandwidth, ultra-wide band capable
- Available in tape and reel packaging
- SMT compatible

Frequency Range	2.4 – 2.5 GHz	5.15-5.875 GHz
Peak Gain	> 2 dBi	> 3 dBi
Polarization	Linear	
Nominal Impedance	50 ohms	
VSWR (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 axis.	
Thermal Shock	Change after 4 repeated cycles of 1 hr. at +85°C and 1 hr. at -40°C. Transfer time is 5 min.	
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	



PCMCIA Design

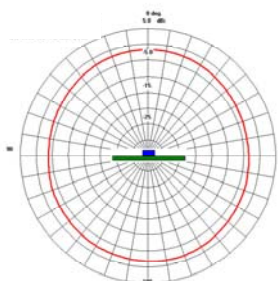
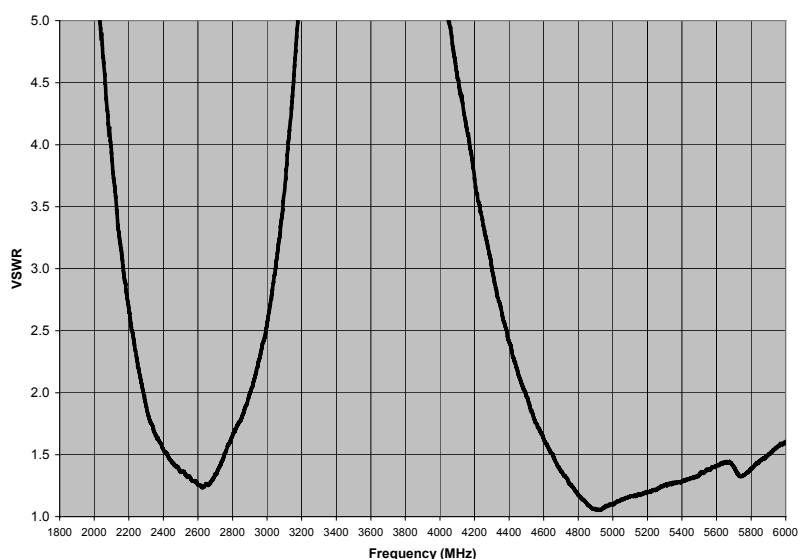
Parallel Patch on PCB connected directly to feed line for UWB



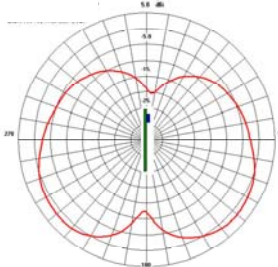
Connectors:

Model #	Part #	Description	Connector
WIC2450-U	CAF95901	Tape and Reel	N/A
WIC2450-U-SM	CAF95943	Single-band on eval board	SMA-female Edge-mount
WIC2452-U-SM	CAF94408	Ultrawide-band on eval board	SMA-female Edge-mount

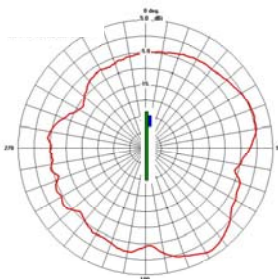
Typical VSWR performance on evaluation PCB



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.

WIC2450U a - 5/18/04