Xircom, Inc.

Performance Summary for: Springport Wireless Ethernet Folded Dipole Antenna Intellectual Property Disclosure in Process



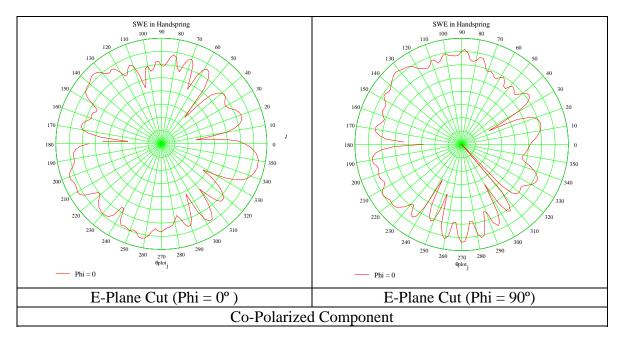
SWE Antenna Description

The performance characteristics of the SWE folded dipole antenna have been optimized with the SWE SpringPort module mated to the HandSpring Visor PDA. When installed in the SWE module, the antenna becomes a matching element to the SWE module PC card and the radiated fields propagate across the module PC card and then radiate off the leading edge of that card. The resulting radiation pattern exhibits a monopole type radiation pattern with a null along the major axis of the module and pattern peaks at approximately 30° to 50° from the major axis in the direction of the SWE card. The radiated field thus observed is polarized along the axis of the card.

DTA 3.0 Specification Summary

Electrical	
Frequency	2400-2480MHz
Nominal Peak Antenna Ga	in 2.0 dBi
Nominal 3 dB Beamwidth	
E-Plane	N/A (Bifurcated Beam Pattern)
H-Plane	360°
Polarization	Vertical (Along Major Axis of Card)
Input VSWR	1.4:1 Max
Input Impedance	50 ohms
Maximum Power Input	10 watts
PIM	N/A
Static Protection	Element and Feed are DC Grounded
Mechanical	
Dimonsions	7.5mm I x 40.4mm W (atabad on airquit board matarial

Dimensions		7.5mm L x 40.4mm W	(etched on circuit board material)
Input Connector	MMCX	Edge Mount	
Weight		N/A	
Wind Area		N/A	
Wind Load		N/A	





2.4 GHz Bluetooth[™] Antenna — P/N 100902

BANGESTAR

Features

- Small and lightweight
- No tuning components
- Available in tape and reel or tray packing for automatic mounting

Electrical

Frequency Range	2400 – 2500 MHz	
Peak Gain ⁽¹⁾	0 dBi	
VSWR ⁽¹⁾	less than 2.0:1	
Polarization	linear	
Azimuth Beamwidth	omnidirectional	
Power Handling	10 Watt cw	
Feed Point Impedance	50 Ohms unbalanced	
Note (1) Figures dependent on ground plane size		

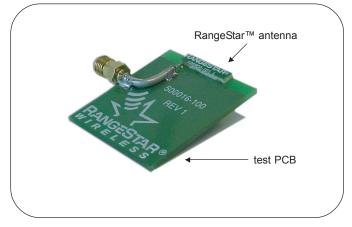
Mechanical

Size	18.2 x 3.9 x 1.6 mm	
Weight	less than 1 g	
Mounting	surface mount technology	

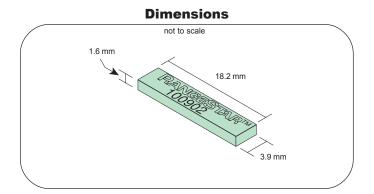
Ultima™ Series Antennas

This small embedded antenna provides the most reliable, easy-to-use, and adjustment-free antenna technology for handling during assembly and implementation by developers.

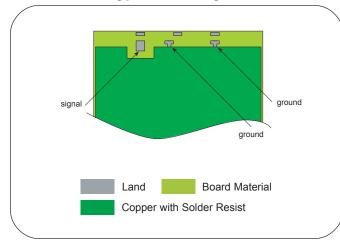


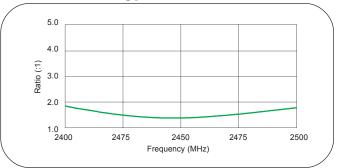


Typical VSWR

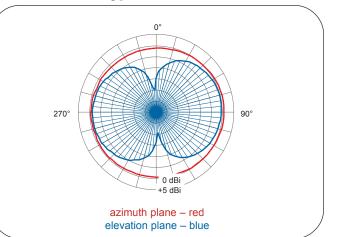


Typical Pad Layout





Typical Pattern



© 2000 RangeStar Wireless, Inc. RangeStar, RangeStar, Wireless, and Uttima are trademarks or registered trademarks of RangeStar Wireless, Inc. All rights reserved. Protected by one or more U.S. Patents 5,507,012; 5,666,125; 5,777,586; 5,945,954; 5,999,140; D417,221; 6,095,820; and other U.S. and foreign patents pending. Specification subject to change without notice. http://www.rangestar.com 2017262D-2

