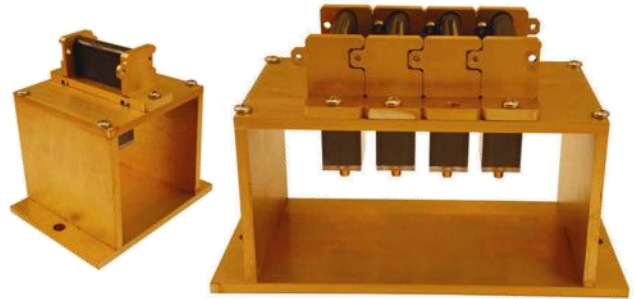


Features

- ✓ 2500-7000 MHz Frequency Range
- ✓ ModuSTAK™ pattern synthesis
- ✓ Near-frequency independent patterns over 1.5 octaves
- ✓ 50 W continuous power handling capability



GreenWave's new line of ModuSTAK™ blade antennas allow for user-defined pattern and gain synthesis by "stacking" multiple elements together to form an array

GreenWave Scientific's new *BLADE* series modular antenna system provides multi-octave broadband performance with complete antenna array configuration flexibility.

With new digital beamforming and smart antenna systems, broadband antennas have become more in demand. GreenWave Scientific has designed a new highly modular antenna system that is broadband and handles up to 50 W peak power per element. The antenna employs a novel radiator technology that minimizes antenna depth and provides continuous coverage across a very wide band. The antenna utilizes techniques that shrink the physical size while increasing its effective size which extends the performance near the band edges. The Greenwave proprietary balanced arm radiator results in a high power, lightweight, modular antenna that is ideal for today's software defined radios and digital beamforming radio architectures.

GreenWave has developed a ModuSTAK™ antenna connection system that allows the end-user complete flexibility in the configuration of the antenna array. Because Software Defined Radio architectures are becoming prevalent in today's radio designs – a paradigm shift is needed in antenna array design and deployment. With the ModuSTAK™ system, element swap-out capabilities mean minimal downtime impact on communication or EW systems. By using a specially engineered radiator that eliminates resonant and energy storage structures, Greenwave has achieved extremely broadband performance without suffering from "cross-over" frequency transitions found in conventional multi-mode, resonant or multiple radiator designs.

GreenWave Scientific © 2009

2800 Sumner Blvd.
Suite 166
Raleigh, NC 27616

sales: 919.876.6220

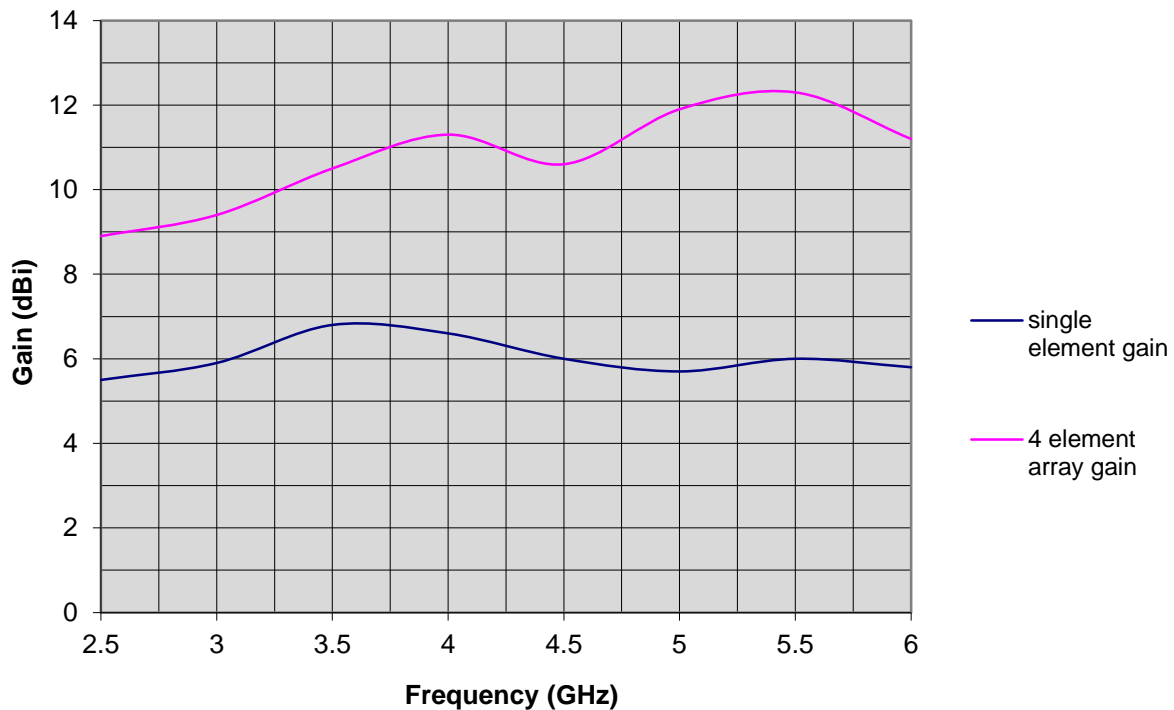
Electrical Specifications

Frequency Range	VSWR	Maximum Power (Cont)	Connector	Nominal Impedance
2500-7000 MHz	See graph	50 W	N-type	50 Ω

Physical Specifications

Length	Width (w/o mounting base)	Height (w/o mounting base)	Weight (w/o mounting base)
4.3 in 10.9 cm	1.2 in 3.0 cm	1.5 in 3.8 cm	0.26 lb 0.12 kg

Gain Patterns



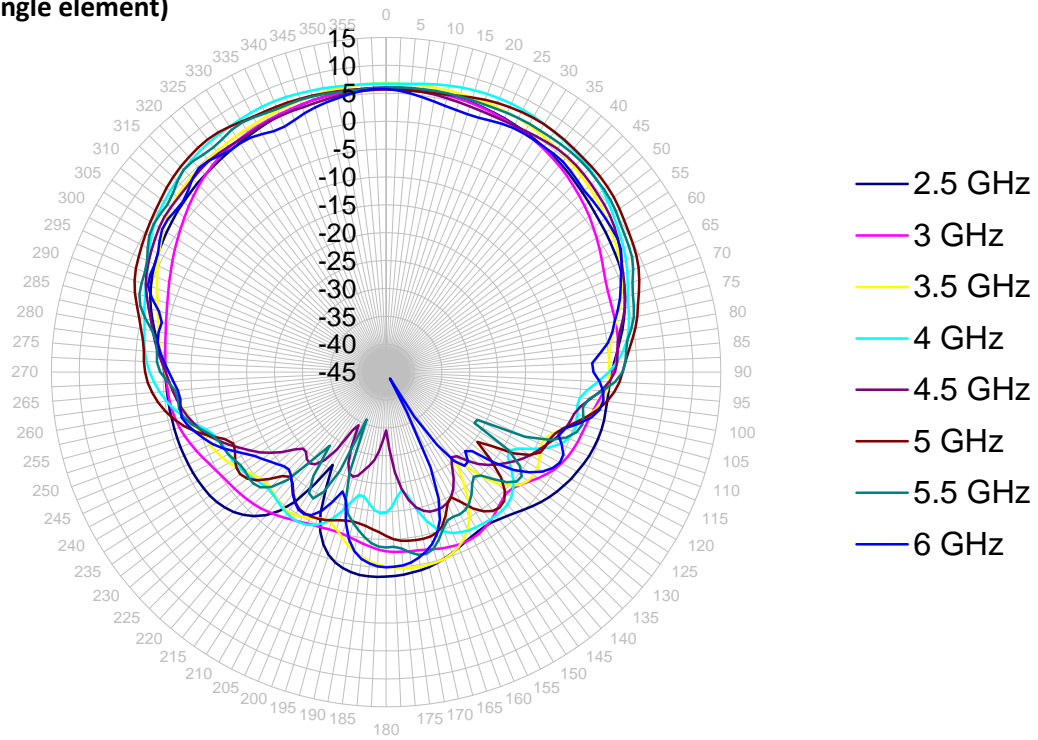
GreenWave Scientific © 2009

2800 Sumner Blvd.
Suite 166
Raleigh, NC 27616

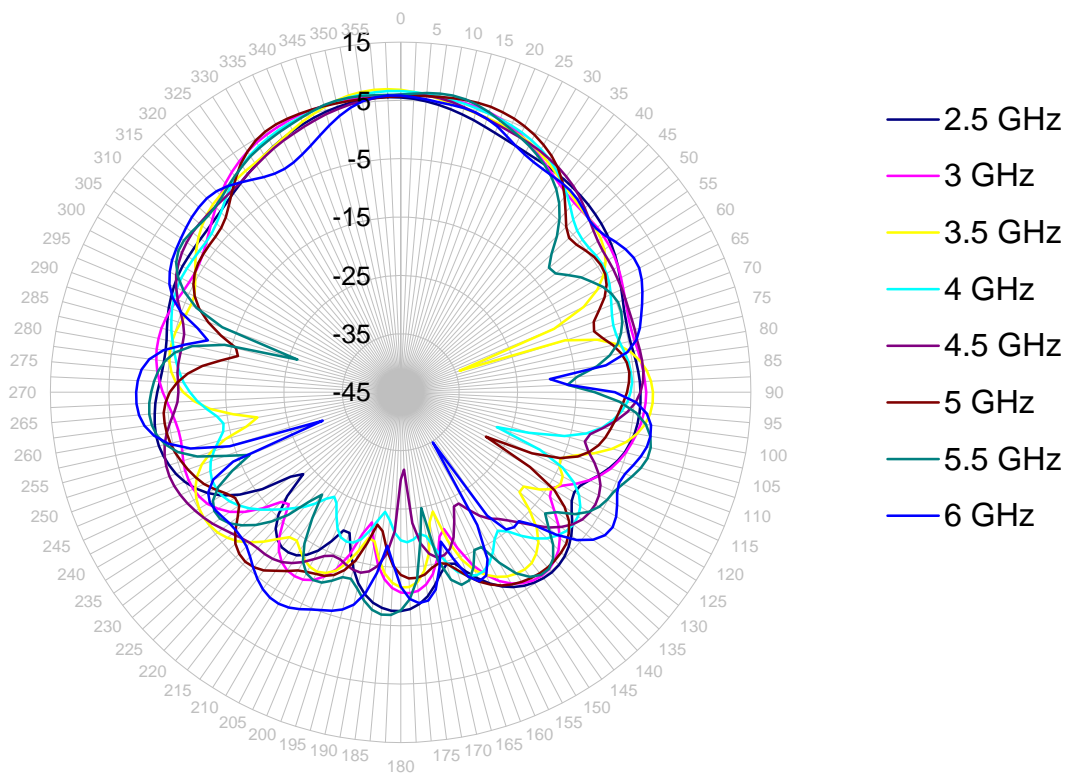
sales: 919.876.6220



Azimuth (single element)



Elevation (single element)



GreenWave Scientific © 2009

2800 Sumner Blvd.
Suite 166
Raleigh, NC 27616

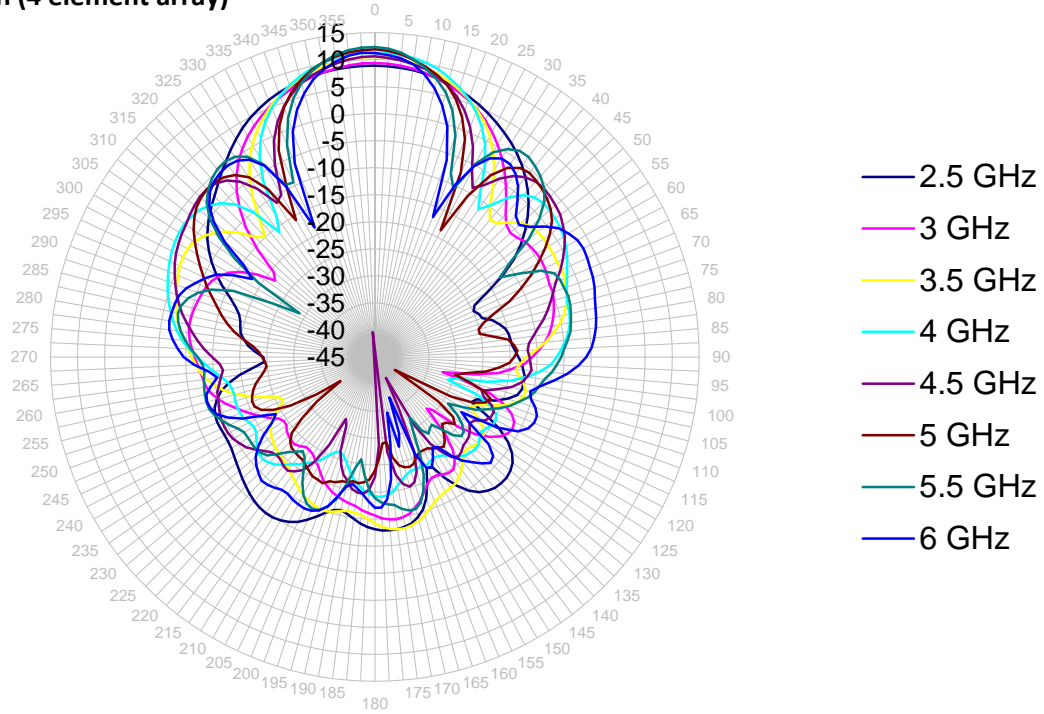
sales: 919.876.6220



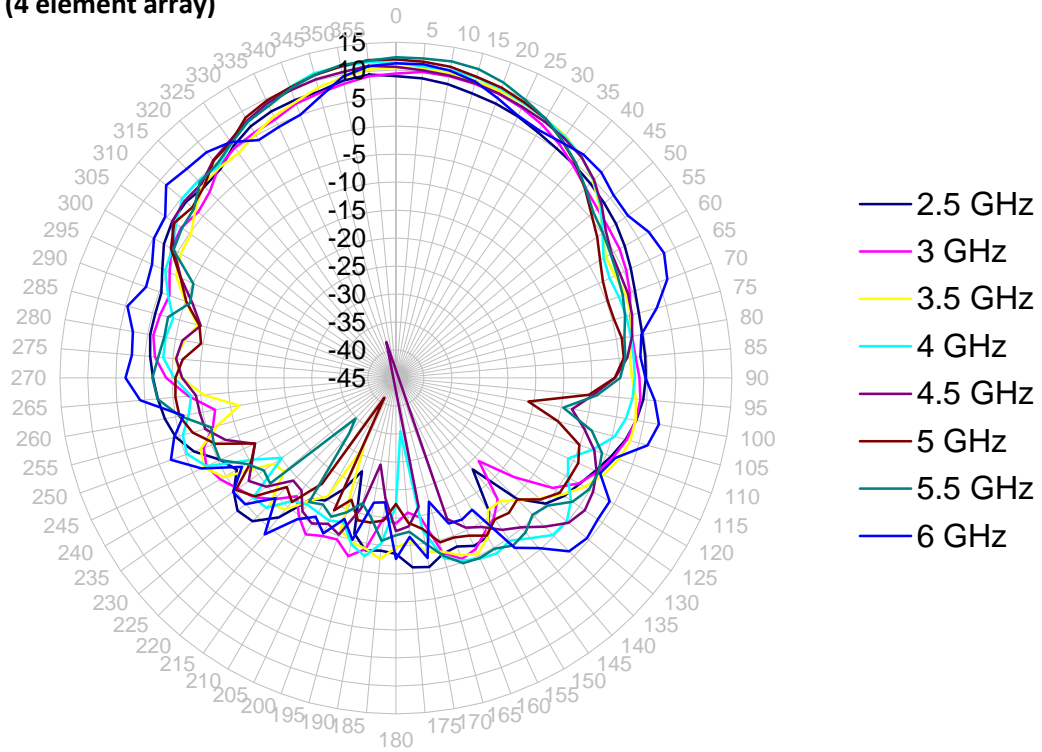
Product information is subject to change as product enhancements are made.

2/2011 rev A.3

Azimuth (4 element array)



Elevation (4 element array)

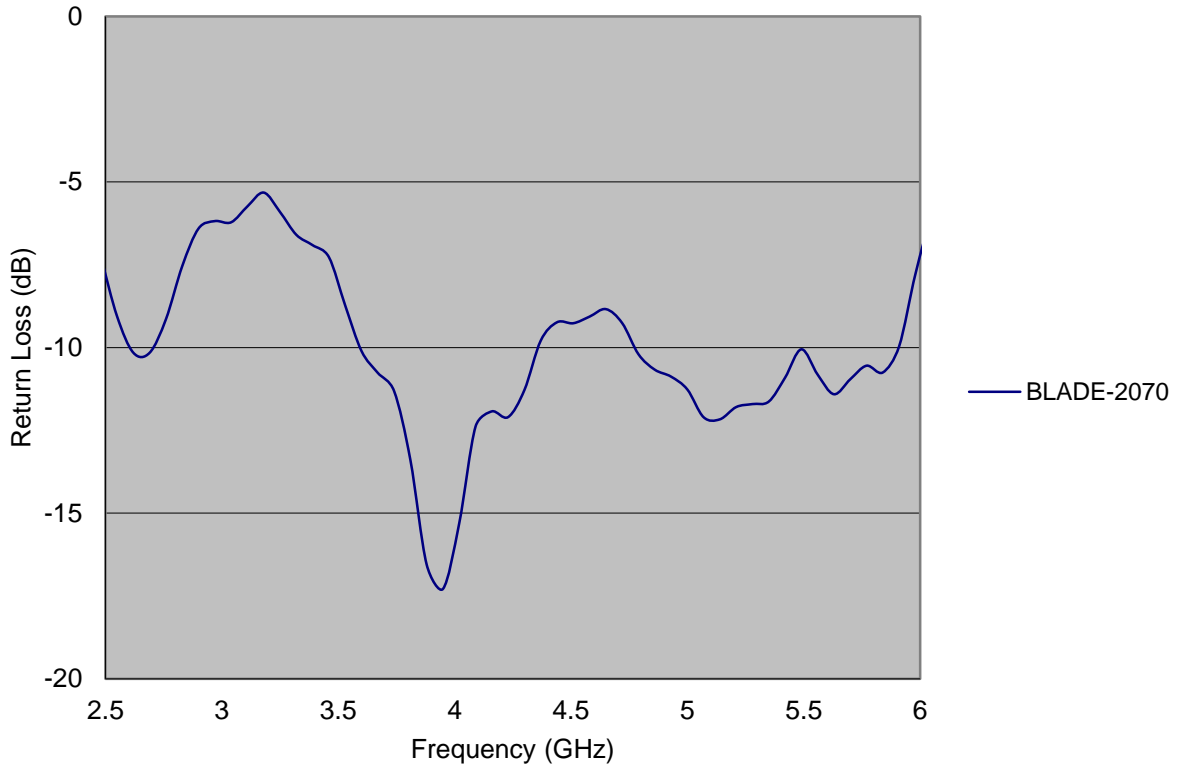


GreenWave Scientific © 2009

2800 Sumner Blvd.
Suite 166
Raleigh, NC 27616

sales: 919.876.6220





GreenWave Scientific © 2009

2800 Sumner Blvd.
Suite 166
Raleigh, NC 27616

sales: 919.876.6220



Product information is subject to change as product enhancements are made.

2/2011 rev A.3