

May 31, 2013

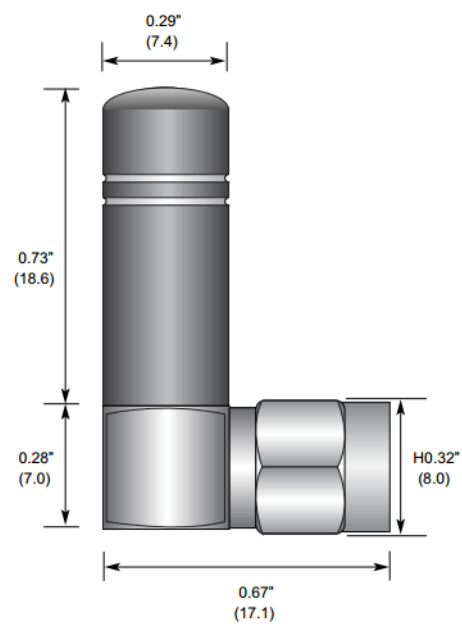
Antenna Information:

The **xBR V4** transmit antenna comply with paragraph 15.203 of the FCC rules due to being installed only by trained, professional installers within a controlled environment, not in any publicly accessible area.

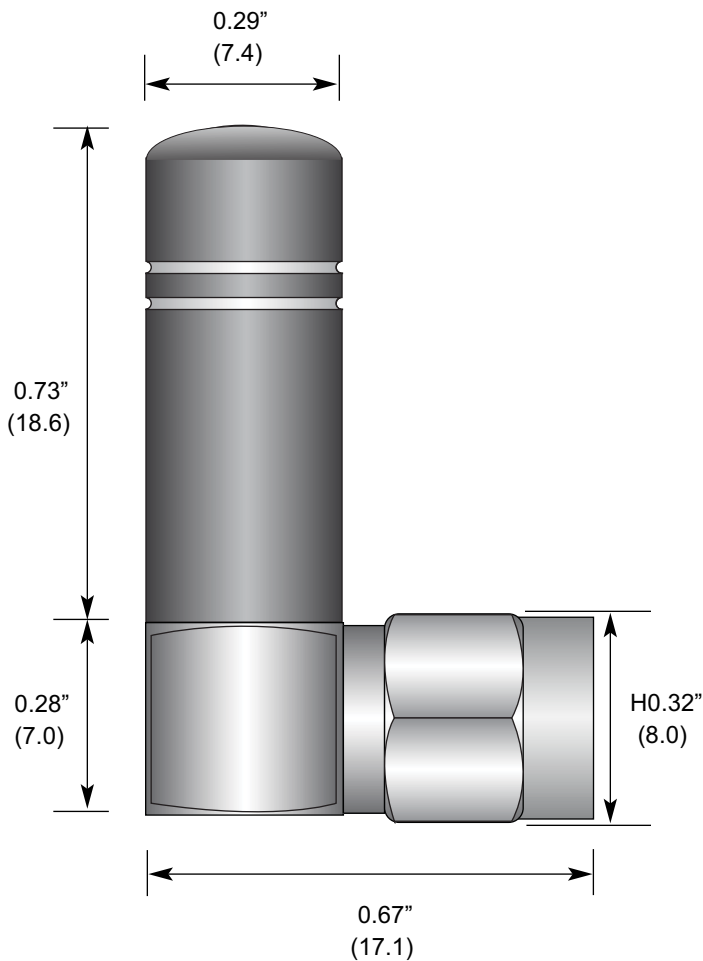
Acceptable antennas must be omni-directional, with no more than 2.0 dBi gain.

Acceptable antennas are: Linx Technologies Inc, Part Number ANT-2.4-CW-RAH-SMA, Omni-directional, 2.0 dBi gain

Antenna Image:



Product Dimensions



Description



The RAH Series utilizes a helical element to greatly reduce the physical length of the antenna housing. They are ideal for products requiring an ultra-compact, aesthetically pleasing antenna in a right angle form factor. Despite their tiny size, they are ruggedly constructed and able to withstand punishing environments just like our larger whips. The antennas attach via a Part 15 compliant RP-SMA connector. The 2.45GHz version is also available with a standard SMA connector.

Features

- Low cost
 - Ultra-compact
 - Right angle mount
 - Excellent performance
 - Omnidirectional pattern
 - Fully weatherized
 - Flexible main shaft
 - Rugged & damage-resistant
 - Part 15 compliant RP-SMA connector
 - Use with plastic* or metal enclosures
- * Requires proximity ground plane

Electrical Specifications

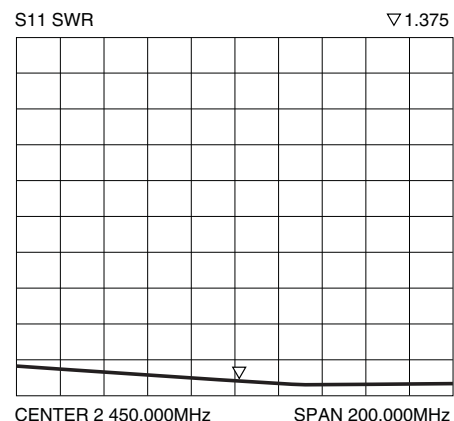
- Center Freq. 2.45GHz
- Bandwidth 300MHz
- Wavelength 1/4-wave
- VSWR <2.0 typ. at center
- Impedance 50 ohms
- Connector RP-SMA or SMA

Electrical specifications and plots measured on 4.00" x 4.00" reference ground plane

Ordering Information

- ANT-2.4-CW-RAH-RPS (with RP-SMA connector)
- ANT-2.4-CW-RAH-SMA (with SMA connector)

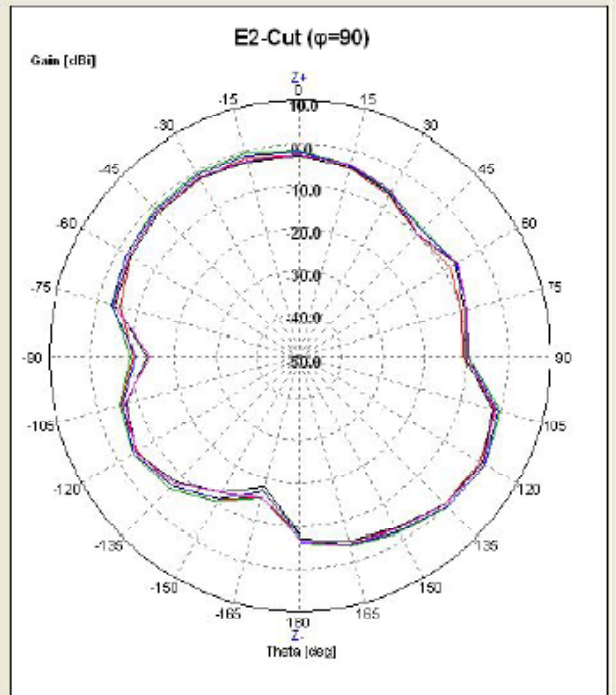
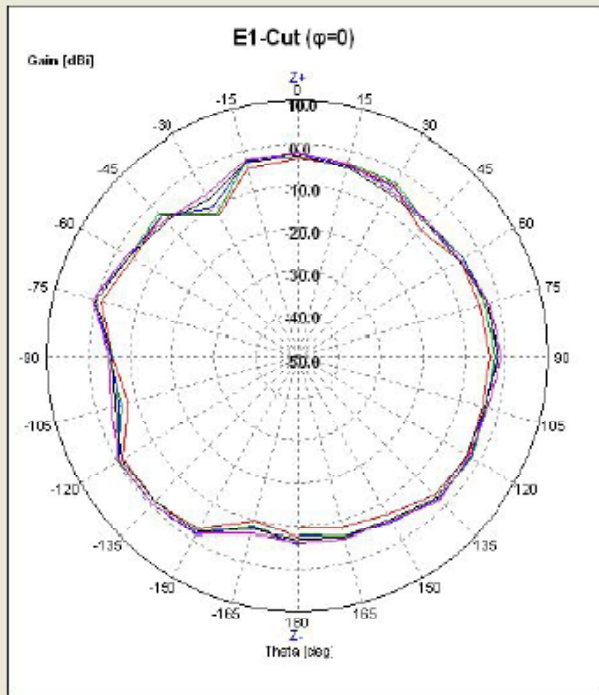
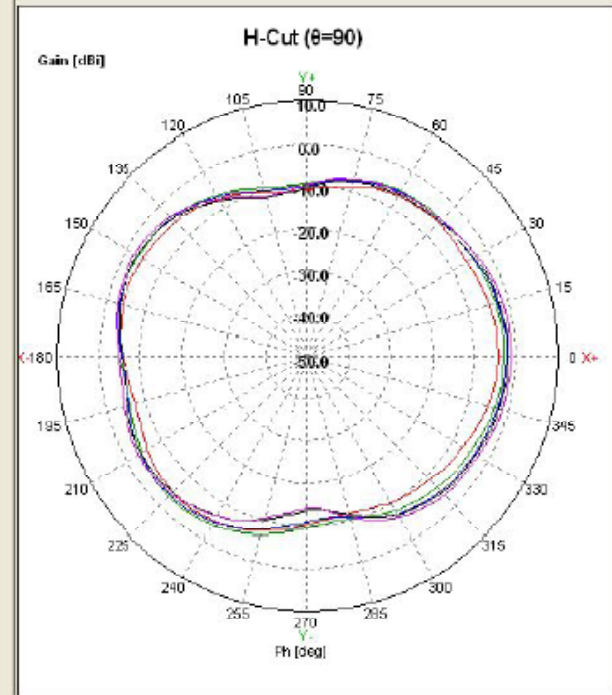
VSWR Graph



Typical VSWR

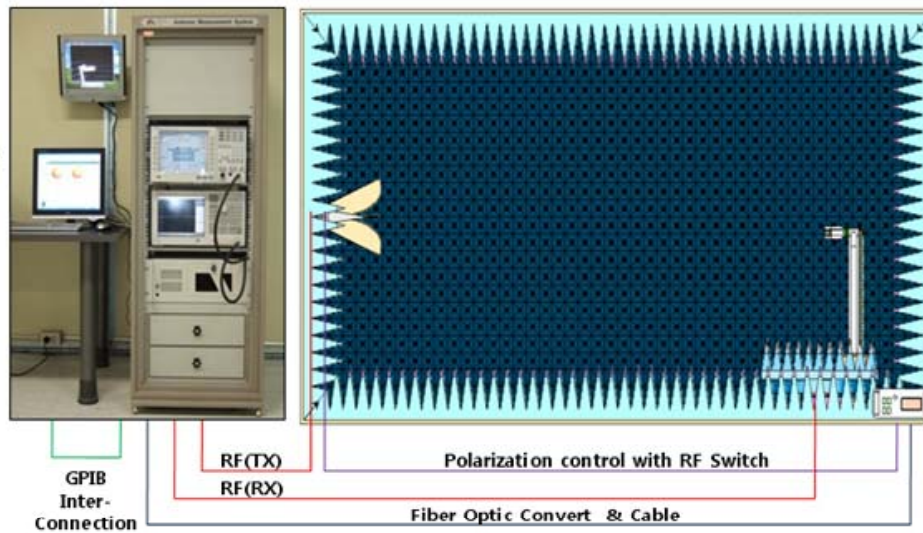
1. ANT-2.4-CW-RAH-xxx Radiation Patterns (at Edge of Jig #50-V2)

Summary		Multiple Frequency					Multiple Cut					3D-View		Reserved		
No.	Freq	PwrSum	Eff. [%]	Avg [dB]	Peak [dB]	θ [deg]	ϕ [deg]	H($\theta=90$)	Peak [dB]	ϕ [deg]	E1($\phi=0$)	Peak [dB]	θ [deg]	E2($\phi=90$)	Peak [dB]	θ [deg]
1	2400.000	36.36	-4.39	0.62	135.30	120.00	-8.43	-4.19	160.00	-4.40	-1.21	-75.00	-4.43	-0.03	120.00	
2	2425.000	48.97	-3.15	1.81	135.30	135.00	-5.10	-2.78	360.00	-3.15	0.56	-75.00	-3.28	1.35	120.00	
3	2450.000	47.26	-3.35	1.64	135.30	135.00	-4.97	-2.16	360.00	-3.16	0.74	-75.00	-3.56	1.28	120.00	
4	2485.000	41.06	-3.66	0.82	135.30	130.00	-5.14	-1.83	5.00	-3.84	0.19	-75.00	-4.47	0.48	120.00	
5	2500.000	46.26	-3.35	1.14	135.30	130.00	-4.48	-1.14	5.00	-3.04	0.67	-75.00	-4.08	0.84	120.00	



2. Chamber

WIRELESS
COMMUNICATIONS
TEST SET
VECTOR NETWORK
ANALYZER
SYSTEM
CONTROLLER &
LCD MONITOR



Chamber - MTG 6x3x3(m), 300MHz~6GHz
Active - Agilent E5515C (8960 Series 10)
Passive - Agilent E5071B 300KHz~8.5GHz

