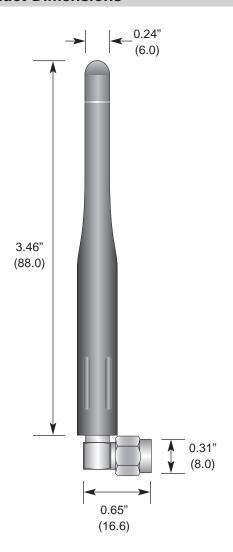
# ANT-916-CW-RCL DATA SHEET

### Product Dimensions



### Description



The RCL Series is useful in products where additional height above the product's case is needed or a slightly wider operational bandwidth is desired. The 916MHz version has a 1/4-wave element. The antennas attach via a Part 15 compliant RP-SMA connector.

#### Features

- Right-angle mount
- Reduced-height whip
- Excellent performance
- Omni-directional pattern
- Fully weatherized
- Rugged & damage-resistant
- Part 15 compliant RP-SMA connector

### **Electrical Specifications**

Center Freq. 916MHzBandwidth 150MHzWavelength 1/4-wave

• VSWR <1.7 typ. at center

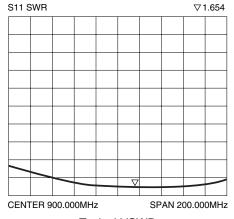
Impedance 50 ohmsConnector RP-SMA

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

# Ordering Information

ANT-916-CW-RCL

## **VSWR** Graph



Typical VSWR



#### ANT-916-CW-RCL 2D Pattern @916.0MHz

Note: 2.5-3 dBi cable loss uncompensated for in plot

Date / Time : □2011221 / 14:26□ Software Version : □V1.2□

Measurement Distance : □9M\*4M\*4M(3.6M)□

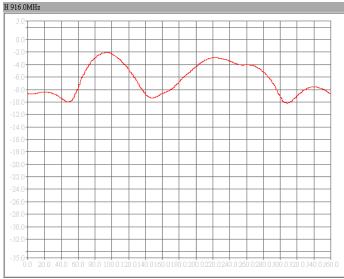
Project Number : □□ Operator Name : □jackie□

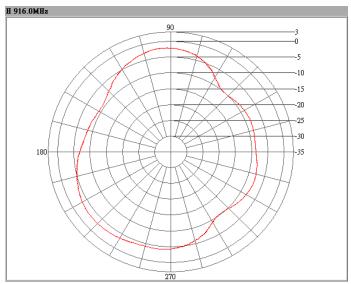
Model Name : □ANT-916-CW-RCL□

Serial Number : □□ Temperature : □20□ Humidity : □55□

NETWORK □ Agilent 50MHz-20GHz 8720ET □ Stand Data: □ SCHWARZBECK 9108A1 □

	Н
Max Gain (dBi)	-2.03
Max Gain@Angle (degree)	93
Min Gain (dBi)	-10.18
Min Gain@Angle (degree)	309
Average Gain (dBi)	-5.62
-3dB Angle L (degree)	121
-3db Angle R (degree)	68.43
HPB (degree)	52.57
EBR (dB)	2.05





### ANT-916-CW-RCL 2D Pattern @916.0MHz

Note: 2.5-3 dBi cable loss uncompensated for in plot

Date / Time : □2011221 / 13:59 □ Software Version : □V1.2 □

Measurement Distance : □9M\*4M\*4M(3.6M)□

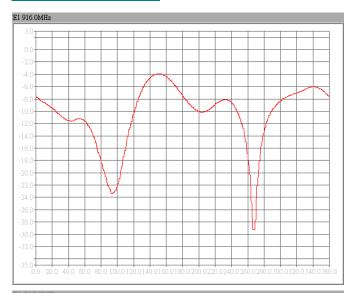
Project Number : □□ Operator Name : □jackie□

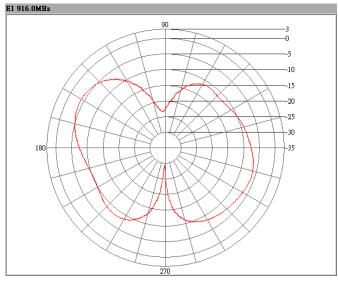
Model Name : □ANT-916-CW-RCL□

Serial Number : □□ Temperature : □20□ Humidity : □55□

NETWORK Agilent 50MHz-20GHz 8720ET Stand Data: SCHWARZBECK 9108A1

	E1
Max Gain (dBi)	-3.9
Max Gain@Angle (degree)	150
Min Gain (dBi)	-29.23
Min Gain@Angle (degree)	269
Average Gain (dBi)	-8.65
-3dB Angle L (degree)	176.8
-3db Angle R (degree)	129.23
HPB (degree)	47.57
FBR (dB)	2.18

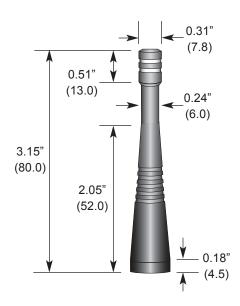


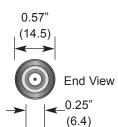




# **ANT-916-CW-QW DATA SHEET**

### Product Dimensions





### Description

CW Series 1/4-wave antennas deliver outstanding performance in a rugged and cosmetically attractive package. These antennas are available with standard SMA or FCC Part 15 compliant RP-SMA connectors. RP-SMA connectors allow for easy field replacement while complying with FCC requirements. A wide variety of matching connectors permit numerous mounting options.



- Low cost
- Excellent performance
- · Omni-directional pattern
- Wide bandwidth
- Very low VSWR
- Fully weatherized
- Flexible main shaft
- Rugged & damage-resistant
- SMA or Part 15 compliant RP-SMA connector
- Use with plastic\* or metal enclosures
- \* Requires proximity ground plane

### Electrical Specifications

Center Freq.
Recommended Freq. Range
Wavelength
916MHz
865-965MHz
1/4-wave

VSWR 
<1.9 typ. at center</li>

• Impedance 50 ohms

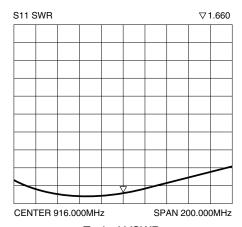
Connector SMA or RP-SMA

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

## Ordering Information

- ANT-916-CW-QW (with RP-SMA connector)
- ANT-916-CW-QW-SMA (with SMA connector)

# **VSWR Graph**



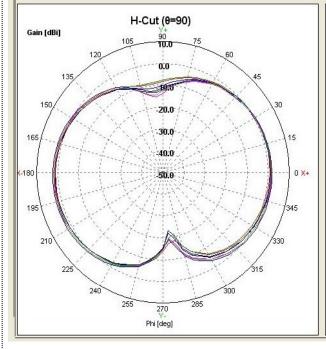
Typical VSWR

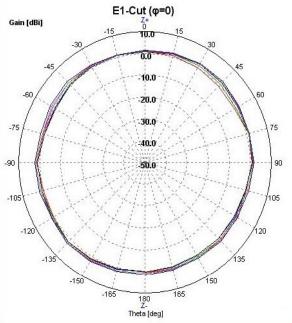


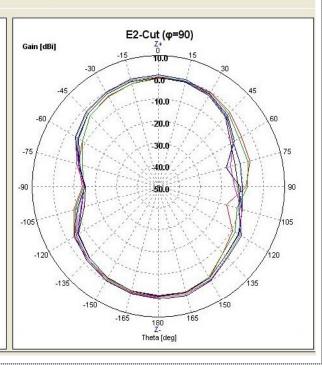
# ANT-916-CW-QW-SMA Radiation Patterns (at Center of Jig #51)

Summary	Multiple Frequency	Multiple Cut	3D-View	Heserved	
		271		W=	
PwrSurr	H(0=90)	E1(φ=0)	2(φ=90)		

32		PwrSurr					H(0=90)				E1(φ=0)				Ε2(φ=90)			
	Freq.	Eff.[%]	Avg.[dBi]	Peak[dBi]	θ[deg]	φ[deg]	Avg.[dBi]	Peak[dBi]	φ[deg]	BW[deg]	Avg.[dBi]	Peak[dBi]	θ[deg]	BW[deg]	Avg.[dBi]	Peak[dBi]	θ[deg]	BW[deg]
1	866.000	73.66	-1.33	1.59	90.00	185.00	-1.58	1.59	185.00	90.12	0.52	1.51	-90.00	999.00	-2.86	0.55	-180.00	999.00
2	886.000	73.18	-1.36	1.78	30.00	20.00	-1.48	1.38	195.00	90.65	0.55	1.43	-135.00	999.00	-3.08	0.10	-180.00	999.00
3	906.000	73.17	-1.36	1.98	30.00	10.00	-1.58	1.23	195.00	91.88	0.59	1.95	30.00	999.00	-3.22	0.02	-180.00	999.00
4	916.000	72.45	-1.40	1.84	30.00	0.00	-1.68	1.24	190.00	91.66	0.54	1.84	30.00	999.00	-3.26	0.13	180.00	999.00
5	936.000	85.58	-0.68	2.35	30.00	355.00	-1.01	2.05	190.00	91.51	1.22	2.34	30.00	999.00	-2.45	1.21	180.00	999.00
6	956.000	84.58	-0.73	2.25	135.00	195.00	-1.07	2.09	190.00	89.85	1.12	2.07	45.00	999.00	-2.43	1.27	180.00	999.00
7	966.000	94.56	-0.24	2.72	135.00	200.00	-0.57	2.61	195.00	89.60	1.60	2.46	-90.00	999.00	-2.00	1.73	180.00	999.00
								1,										





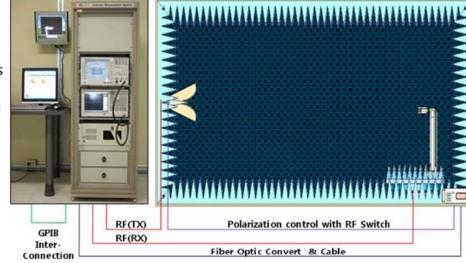


### 5. Chamber

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



