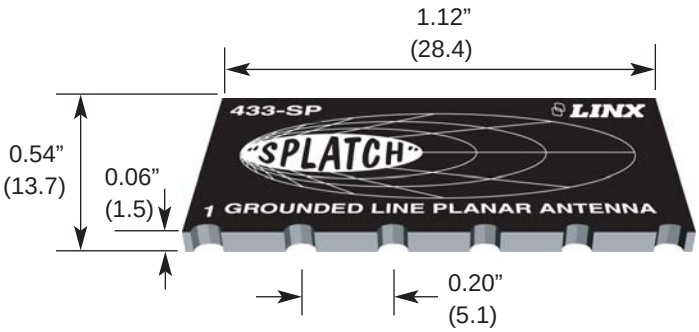
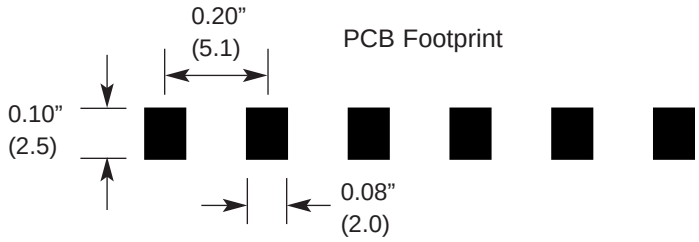
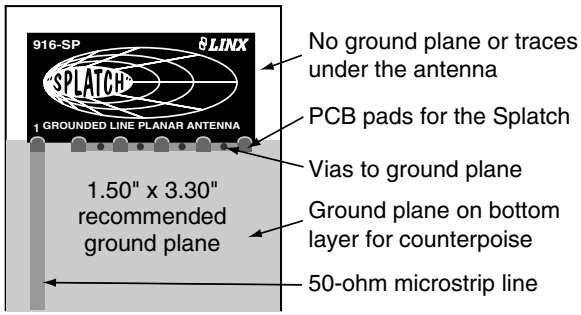
Product Dimensions







Description

The Splatch uses a grounded-line technique to achieve outstanding performance from a tiny surface-mount element. This unique antenna is designed for hand or reflow mounting directly to a product’s circuit board. Its low cost makes it ideal for volume applications. Unlike many compact antennas, the Splatch exhibits good proximity performance, making it an appropriate choice for hand-held applications such as remote controls, pagers, and alert devices. Typical performance is below that of some external antennas, but the Splatch is an excellent choice when cosmetic or mechanical issues dictate the use of an internal antenna.

Features

- Very low cost
- Ultra-compact package
- Ideal for concealed / internal mounting
- Perfect for compact portable devices
- Suitable for hand or reflow assembly
- Resistant to proximity effect
- Direct PCB attachment

Electrical Specifications

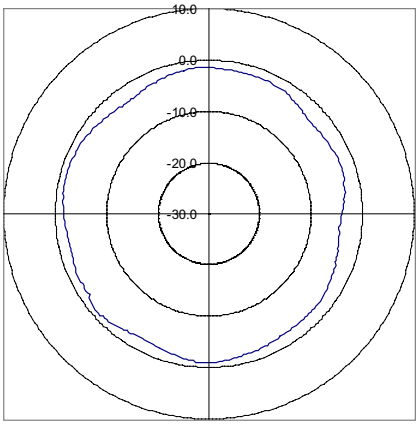
- Center Freq. 916MHz
- Bandwidth 30MHz
- Wavelength 1/4-wave
- VSWR <1.9 typ. at center
- Impedance 50 ohms
- Gain TBD
- Connection Surface-mount

Note: Electrical specifications and plots measured on a 1.50” x 3.30” ground plane

Ordering Information

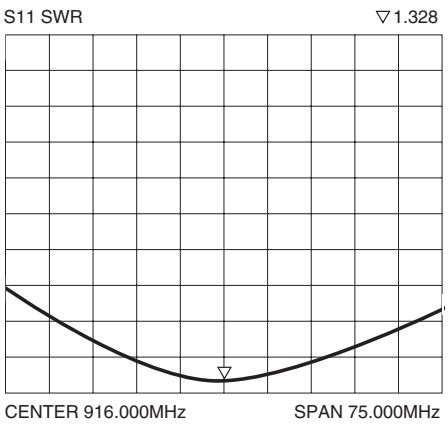
- ANT-916-SP (supplied in tubes of 20 pcs.)

Polar Plots and VSWR Graph



Azimuth

Elevation



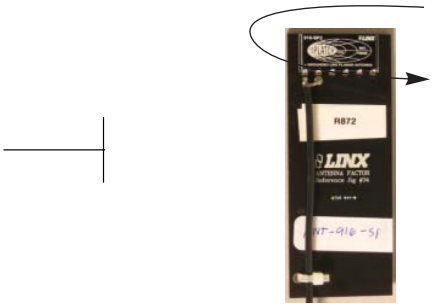
Typical VSWR

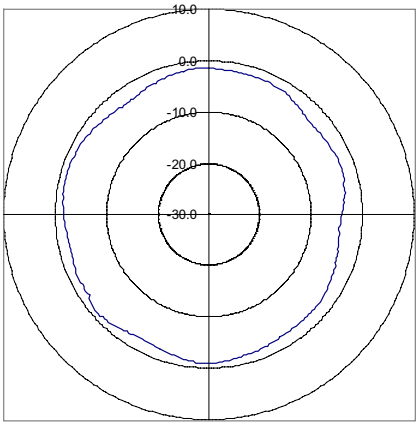
Antenna Factor 575 S.E. Ashley Place Grants Pass, OR 97526-3237 **www.antennafactor.com**
541-956-0931 (phone) 541-471-6251 (fax)

Rev 07-20-06

Azimuth Radiation Pattern

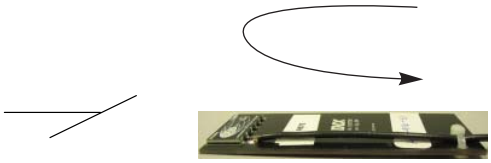
Measurement Antenna Polarity: Vertical
Test Antenna Polarity: Perpendicular
Maximum Absolute Gain: -0.99dBi





Elevation Radiation Pattern

Measurement Antenna Polarity: Horizontal
Test Antenna Polarity: Horizontal
Maximum Absolute Gain: TBD

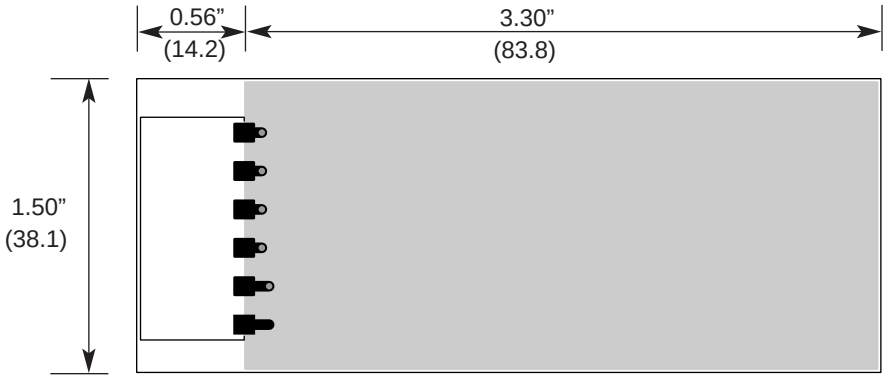


Antenna Test Fixture

ABOUT THIS TEST FIXTURE

The adjoining diagram shows the dimensions of the fixture on which the stated pattern and gain measurements were made. This does not mean that your product must conform to this size or antenna orientation, although it should be recognized that the gain, pattern, and performance may increase or decrease accordingly. Antenna Factor recognizes that our antennas are often used in compact applications with less than ideal ground planes. In some cases, the reference jig is smaller than optimum, particularly with lower-frequency antennas. This is, in part, to more accurately reflect the performance of the antenna in typical real-world applications.

SHADED AREA INDICATES GROUND PLANE ON BOTTOM LAYER
NO GROUND PLANE OR COMPONENTS (EXCEPT ANTENNA) IN WHITE AREA



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541-956-0931 (phone) 541-471-6251 (fax)

From: Justin Hopper [justinho@linxtechnologies.com]
Sent: Tuesday, March 14, 2006 5:02 PM
To: Abtin Spantman
Subject: RE: Ant Gain for projects 305440 and 306159
Hello,

Peak gain of this one will be 2.5dBi.

Support
Linx Technologies
575 S.E. Ashley Place
Grants Pass, OR, 97526 USA
techsupport@linxtechnologies.com
www.linxtechnologies.com
Phone: 1-800-736-6677
Fax: 541-471-6251

From: Abtin Spantman [mailto:aspantman@lsr.com]
Sent: Tuesday, March 07, 2006 6:02 PM
To: Justin Hopper
Subject: FW: Ant Gain for projects 305440 and 306159

Hi Justin:

OK I lied. That is not all I needed.

I just got another project with another antenna that I need a gain declaration for: "ANT-916-SP" before I can file with the FCC.
It will be the middle of next week before I will need this information, as I am not finished testing this product yet.
If I can impose on you to declare a gain figure for the Splatch, at your leisure, I would appreciate your efforts on our behalf.
Thank you again.

Best regards,

Abtin Spantman
RF / EMC Engineer
L.S. Compliance, Incorporated
W66 N220 Commerce Court
Cedarburg, WI 53012
U.S.A.

Direct: 262.421.4992
Main: 262.375.4400
Fax: 262.364.2649
Email: ASPANTMAN@LSR.COM
Visit us on the web: www.lsr.com
