

Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000



Features

- Multipurpose for various frequencies
- Omni directional radiation
- Low profile
- Compact size W x L x H (7 x 1.6 x 1.6 mm)
- Low weight (86 mg)
- Lead free materials
- Fully SMD compatible
- Lead free soldering compatible
- Tape and reel packing
- RoHS compliant product

Applications

- Bluetooth, WLAN, WiFi
- IEEE 802.11b/g
- ZigBee IEEE 802.15.4
- 2.4 GHz WLAN
- 2.4 GHz ISM Band System
- 868 MHz ISM Band Systems
- GPS 1.575 GHz

Electrical specifications @ +25 °C

Note: Electrical characteristics depend on test board (GP) size and antenna positioning on GP and ground clearance area size. Matching and tuning circuit component values are case depended.

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Monopole 1.575 GHz

Typical performance

Board	Frequency Range [MHz]	Avg Gain [dBi]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [$^{\circ}$ C]
Case #1 11x40mm	1565 – 1585	-3.5 (Peak) -3.9 (Band edges)	0.1 (Peak) -0.2 (Band edges)	50/-3 (Peak) 45/-3.5 (Band edges)	-12	50	-40 to +85
Case #2 20x30mm		-3.9 (Peak) -4.1 (Band edges)	0.3 (Peak) 0 (Band edges)	50/-3 (Peak) 45/-3.5 (Band edges)	-15		
Case #3 37x80mm		-2.7 (Peak) -2.9 (Band edges)	2.0 (Peak) 1.7 (Band edges)	70/-1.55 (Peak) 65/-1.9 (Band edges)	-18		

Monopole 2.4 GHz

Typical performance

Board	Frequency Range [MHz]	Avg Gain [dBi]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [$^{\circ}$ C]
Case #1 11x40mm	2400 – 2483.5	-4.1 (Peak) -3.7 (Band edges)	1.4 (Peak) 1.9 (Band edges)	65/-0.3 (Peak) 55/-0.6 (Band edges)	-18	50	-40 to +85
Case #2 20x30mm		-4.0 (Peak) -4.3 (Band edges)	2.2 (Peak) 1.5 (Band edges)	52/-2.9 (Peak) 46/-3.4 (Band edges)	-12		

ISM 868 MHz

Typical performance

Board	Frequency Range [MHz]	Avg Gain [dBi]	Max Gain [dBi]	Efficiency [%] / [dB]	Return loss min. [dB]	Impedance [Ω]	Operating Temperature [$^{\circ}$ C]
Case #1 20x40mm Vertical	858 – 878	-6.5 (Peak) -7 (Band edges)	-1.8 (Peak) -2.5 (Band edges)	29/-5.4 (Peak) 25/-6 (Band edges)	-10	50	-40 to +85
Case #2 20x40mm Horizontal		-6.5 (Peak) -6.8 (Band edges)	-1.4 (Peak) -2 (Band edges)	30/-5.3 (Peak) 28/-5.55 (Band edges)			

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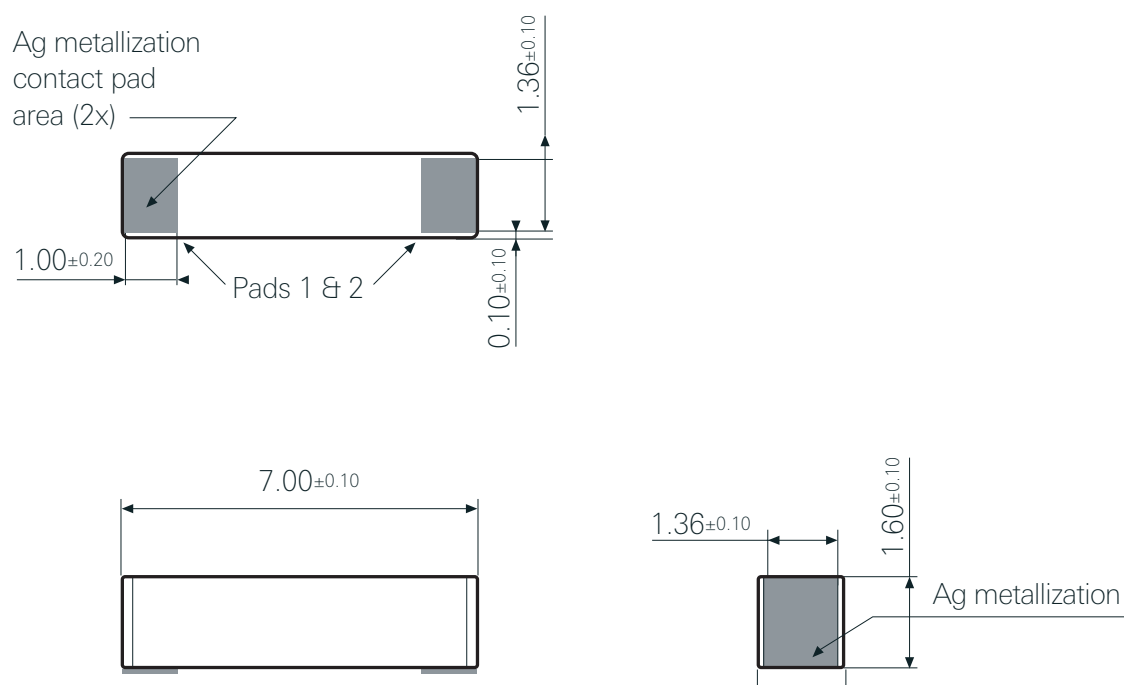
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Terminal Configuration and Dimensions



Antenna features

No.	Terminal name	Terminal Dimensions
1	Feed / GND	1.00 x 1.36 mm
2	Feed / GND	1.00 x 1.36 mm

Antenna is symmetrical.

Either of terminals 1 or 2 can be feed / GND

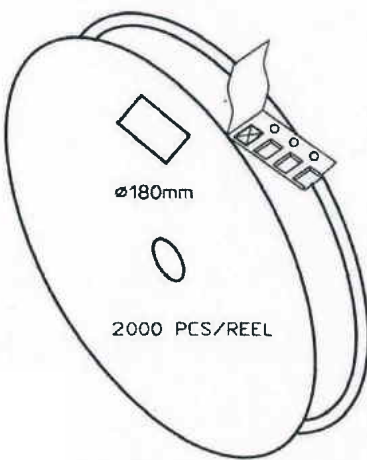
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Packing Form



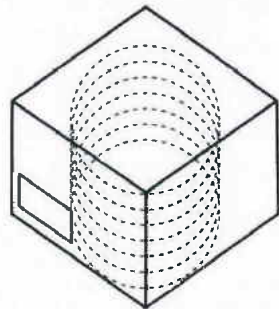
∅180mm
2000 PCS/REEL

CARRIER TAPE H85-00192
width=16,00 depth=1.70
COVER TAPE H85-00193
width=13.40

LENGTH OF TAPE:

- Leader section: min 350 mm before component section
- Trailer section: min 40 mm after component section.

Empty part cavities at leader and trailer section of the tape must be sealed with top cover tape.


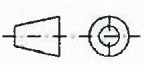


BOX H85-00128 1 pcs
(182x182x125)

- LABEL 1 pcs/BOX

REEL H85-00164 6 pcs
(D180, W28)

- REEL LABEL 1 pcs/REEL

MATERIAL					
HANDLINGS					
		RATIO	DRWN	161007 PeHa	H
			DGNER		G
			CHKD		F
			APPRD		E
			APPRD BY		D
PRODUCT					C
H90-OY838					B
DENOMINATION					A
PACKING FORM			VERSION		MOD/DATE/NAME

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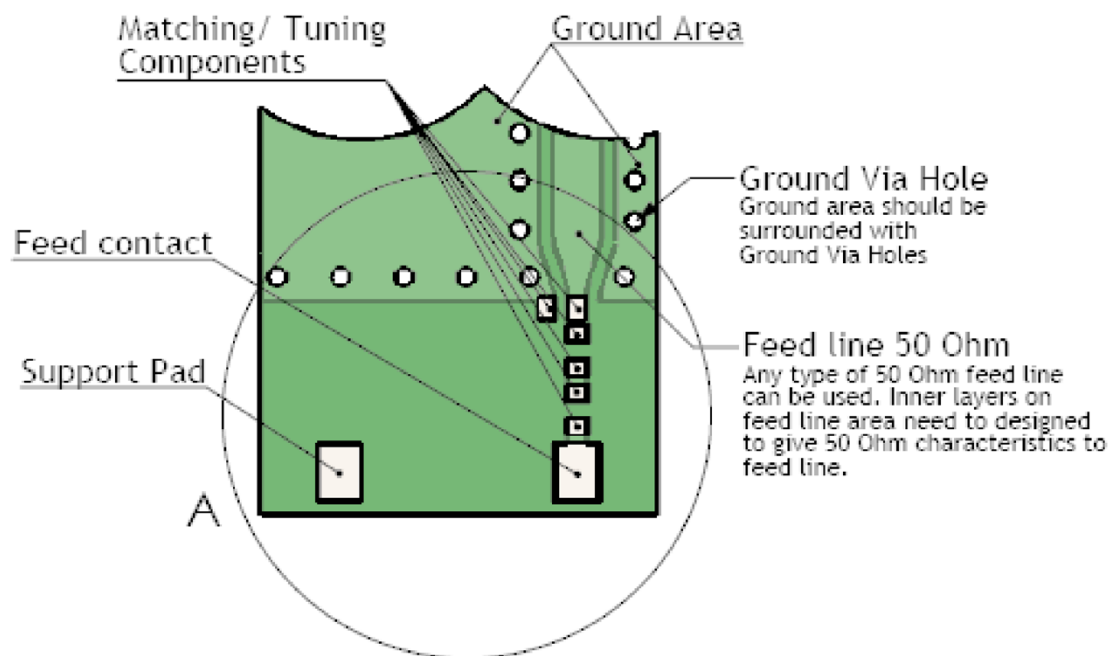
Antenna PWB Layout Specifications

Ground cleared under antenna, clearance area 11.00 x 6.00 mm

Matching and tuning component values depend on application and surrounding mechanics / materials.
Feed line should be designed to match 50 Ω characteristic impedance, depending on PWB material and thickness.
Recommended test board layout for electrical characteristic measurement, test board outline size 11 x 40 mm.
Recommended PWB manufacturing tolerances according to standard: IPC-A-600, revision G

PWB layout for W3000 Monopole Antenna

Note: All dimensions are in metric system.



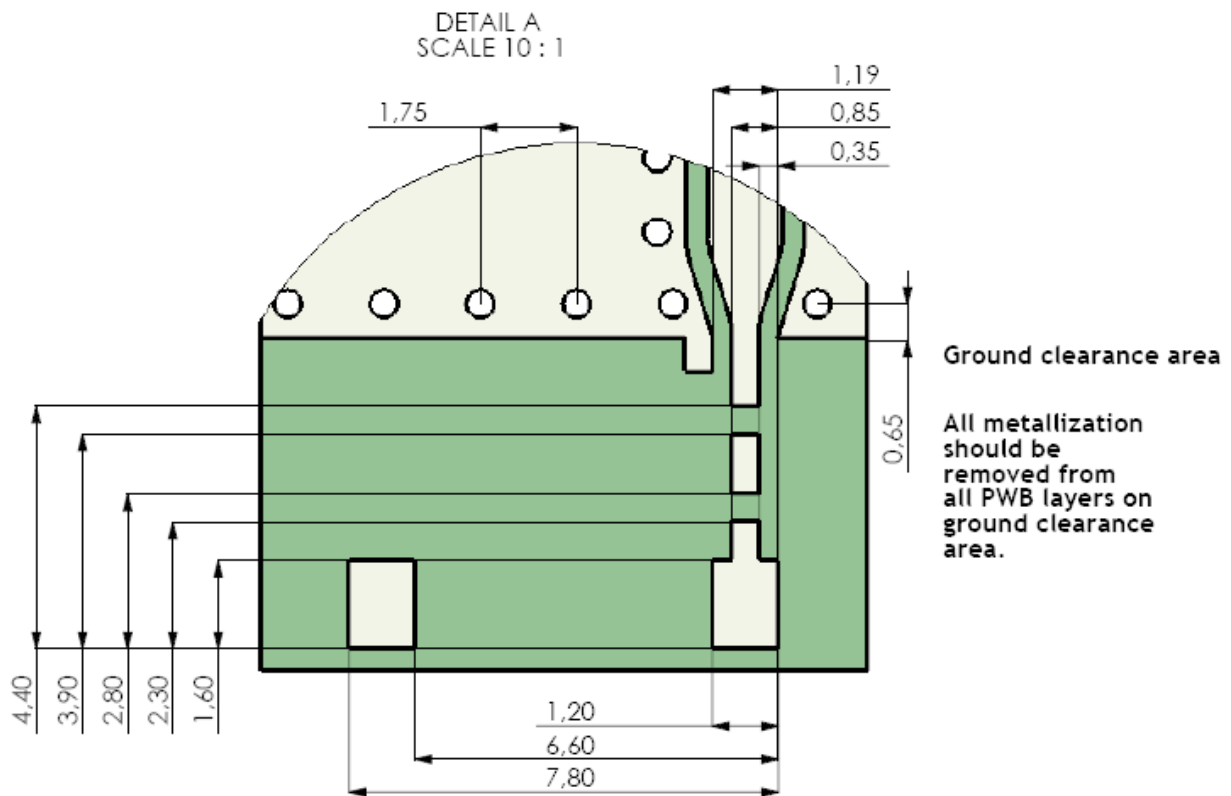
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PWB Pad Dimensions



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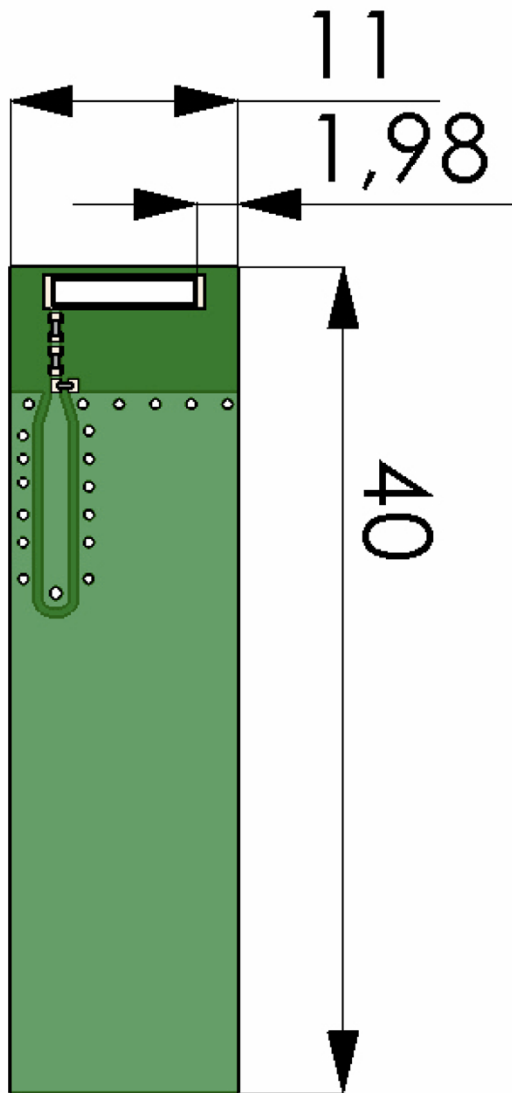
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

GPS Antenna Case #1

Board Size 40 x 11 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



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Ceramic Monopole Antenna

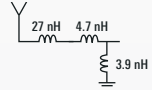
Ground cleared under antenna. Pulse Part Number: W3000

GPS Antenna Case #1, Test Set Up and Measurement Performance

Ground cleared under antenna, clearance area 11.00 x 6.00 mm.

Typical Electrical Characteristics (T=25 °C)

Measured on the 11 x 40 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.



GPS 1.575 GHz Case #1

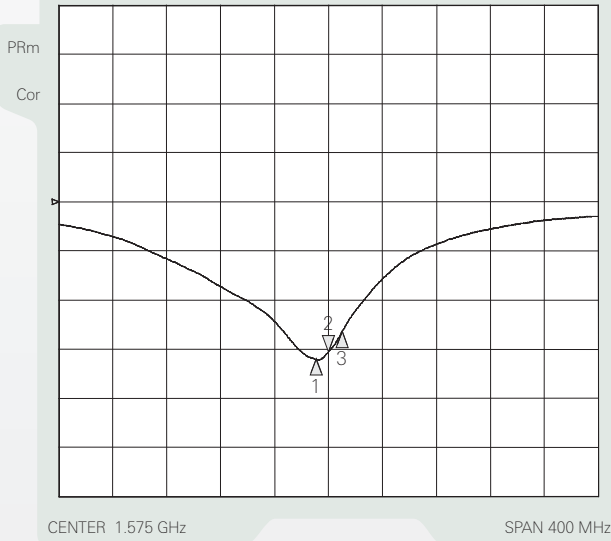
11 Feb 2009 11:44:05

CH1 Markers

- 1. -16.052 dB 1.56550 GHz
- 2. -15.252 dB 1.57500 GHz
- 3. -13.199 dB 1.58500 GHz

CH1 S11&MLOG

5 dB/REF 0 dB



CENTER 1.575 GHz

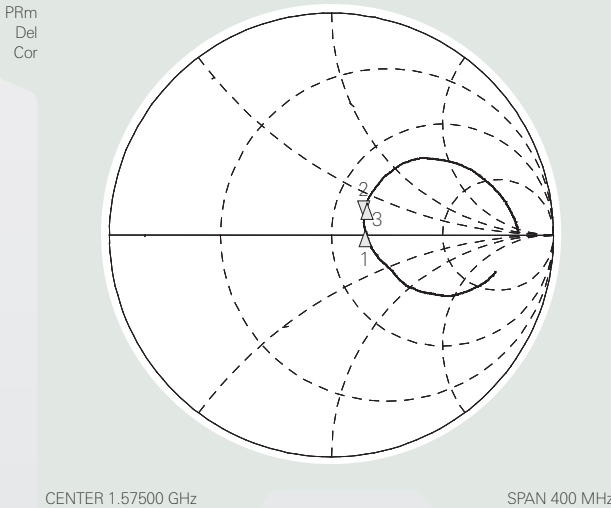
SPAN 400 MHz

GPS 1.575 GHz #1

24 Feb 2009 12:55:57

- 1. 68.535 Ω 3.1875 Ω 1.56550 GHz
- 2. 66.637 Ω 11.031 Ω 1.1147 nH
1.57500 GHz
- 3. 65.742 Ω 20.102 Ω 1.58500 GHz

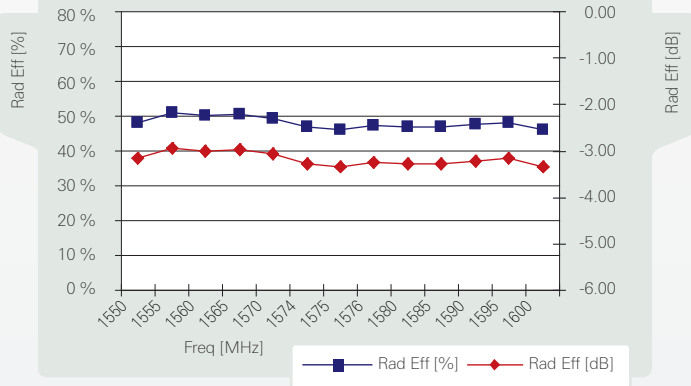
CH1 S11&M 1 U FS



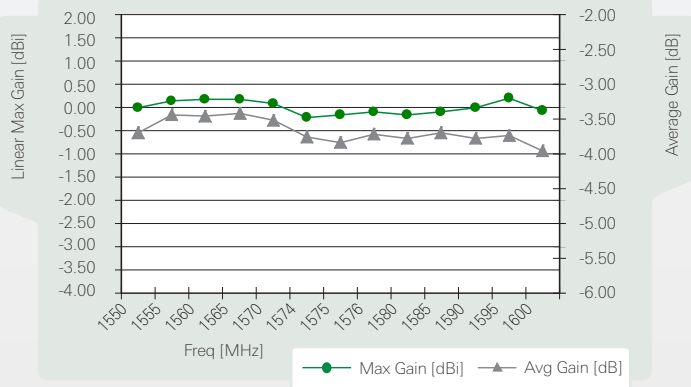
CENTER 1.57500 GHz

SPAN 400 MHz

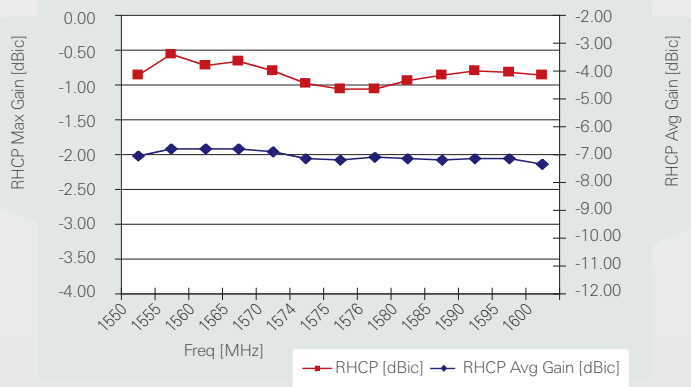
GPS 1.575 GHz Case #1



GPS 1.575 GHz Case #1



GPS 1.575 GHz Case #1



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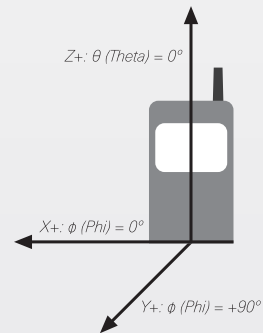
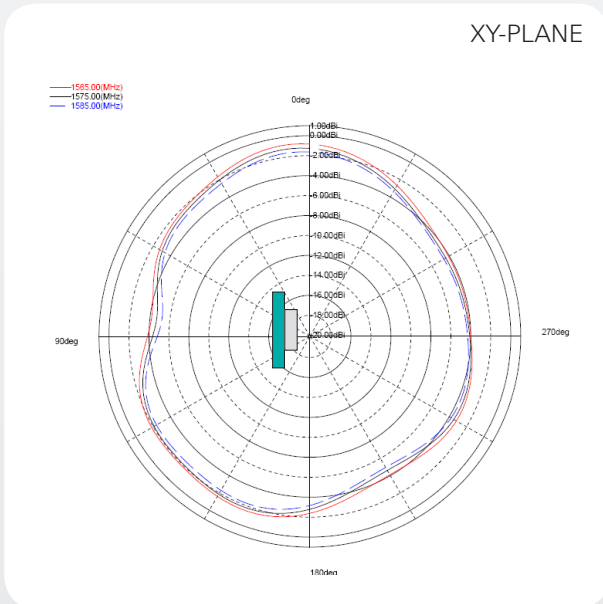
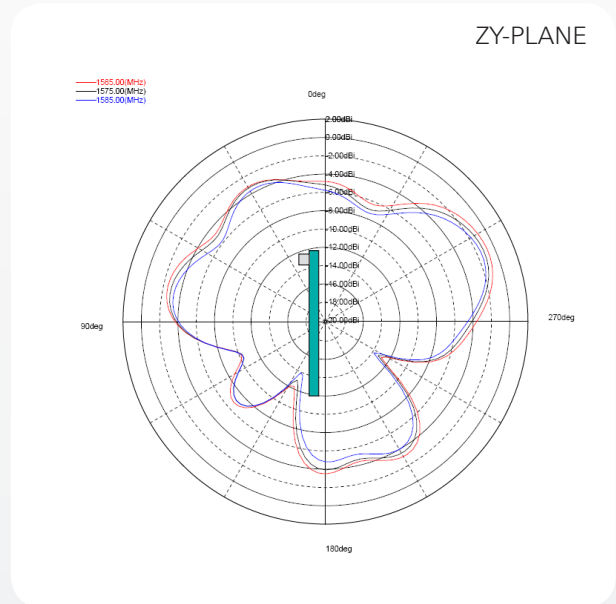
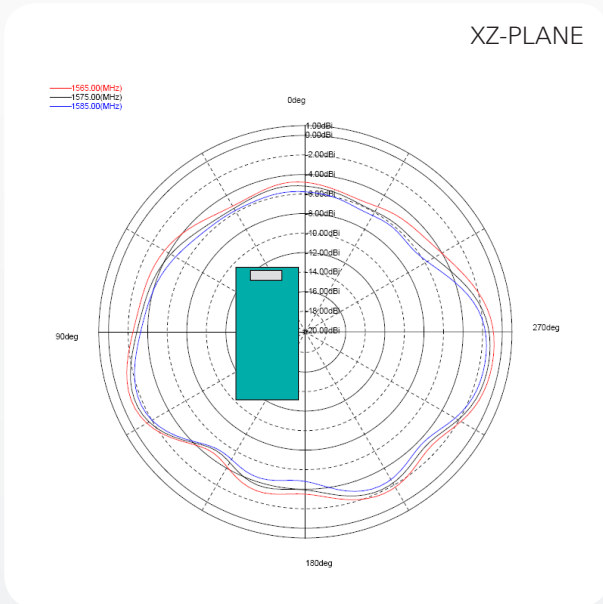


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GPS Antenna Case #1

Typical Free Space Radiation Patterns



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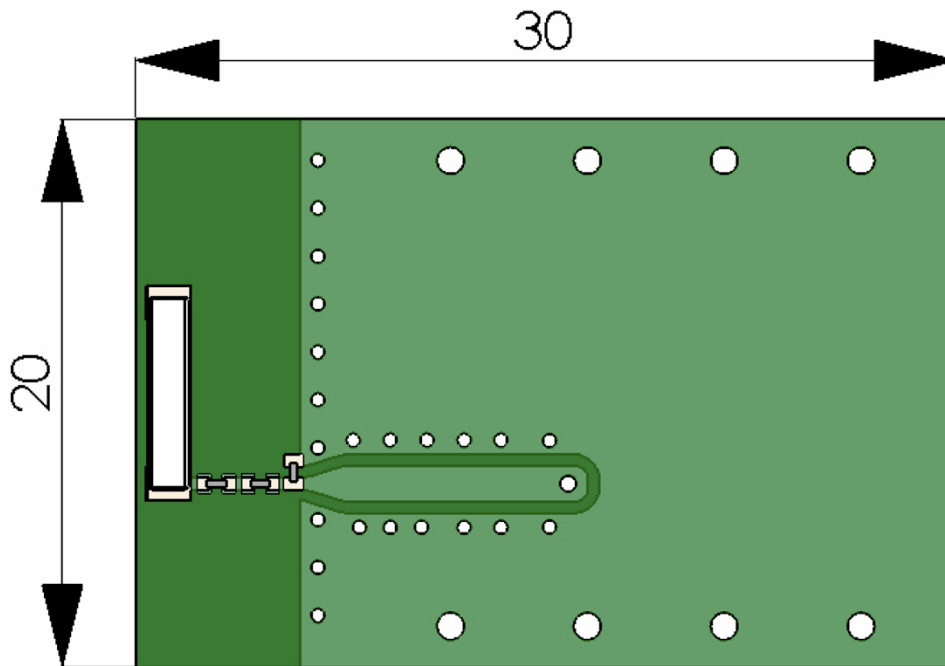
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

GPS Antenna Case #2

Board Size 20x30

Recommended antenna position on PWB for W3000 MONOPOLE Antenna

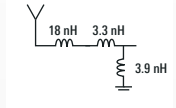


Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

GPS Antenna Case #2, Test Set Up and Measurement Performance

Ground cleared under antenna, clearance area 20.00 x 6.00 mm.



Typical Electrical Characteristics (T=25 °C)

Measured on the 30 x 20 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.

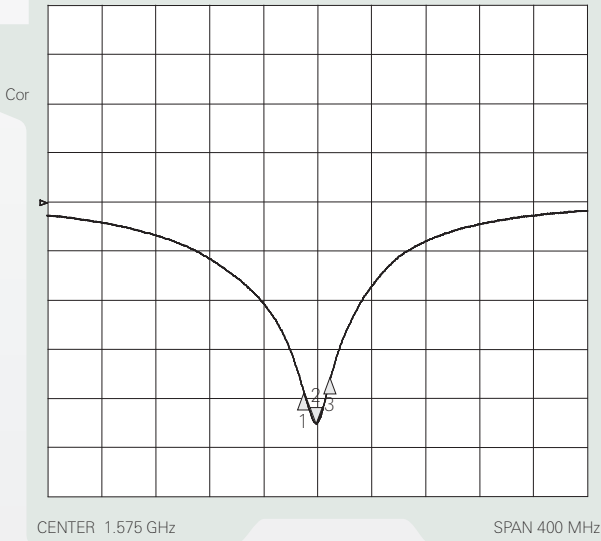
GPS 1.575 GHz Case #2

24 Feb 2009 12:56:26

CH1:Markers

- 1. -19.333 dB 1.56550 GHz
- 2. -22.352 dB 1.57500 GHz
- 3. -17.667 dB 1.58500 GHz

CH1 S11#MLOG 5 dB/REF 0 dB

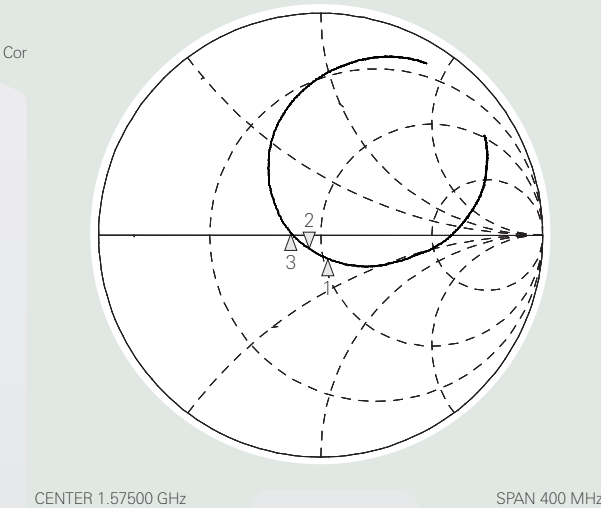


GPS 1.575 GHz #2

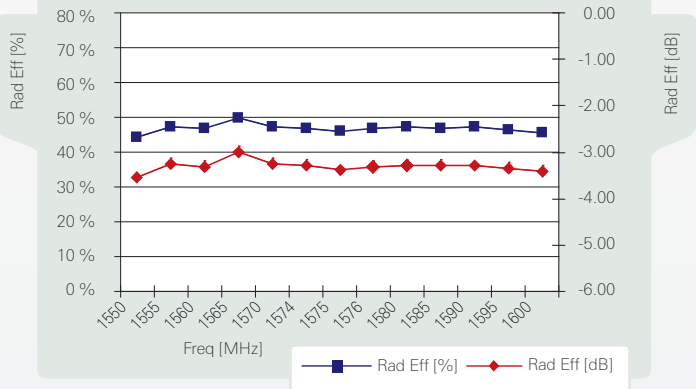
24 Feb 2009 12:56:33

- 1. 52.109 Ω -11.057 Ω 1.56550 GHz
- 2. 44.865 Ω -5.4199 Ω 18.644 pF 1.57500 GHz
- 3. 38.271 Ω 0.7773 Ω 1.58500 GHz

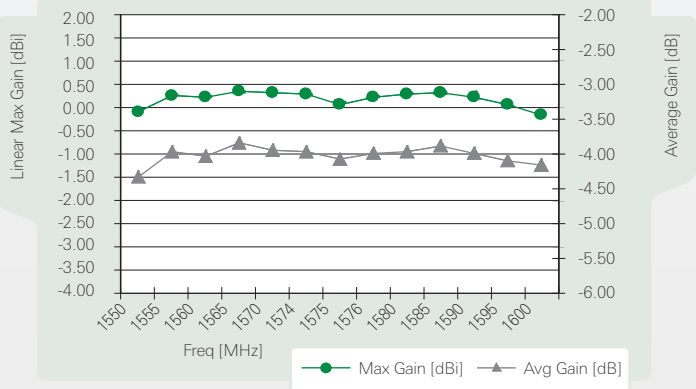
CH1 S11#M 1 U FS



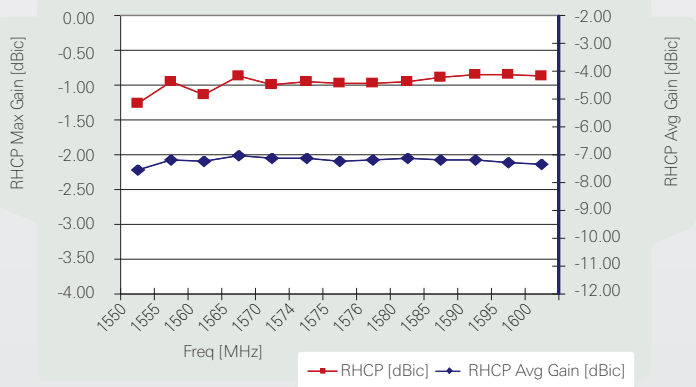
GPS 1.575 GHz Case #2



GPS 1.575 GHz Case #2



GPS 1.575 GHz Case #2



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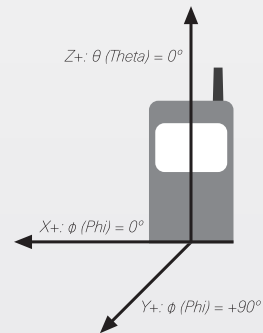
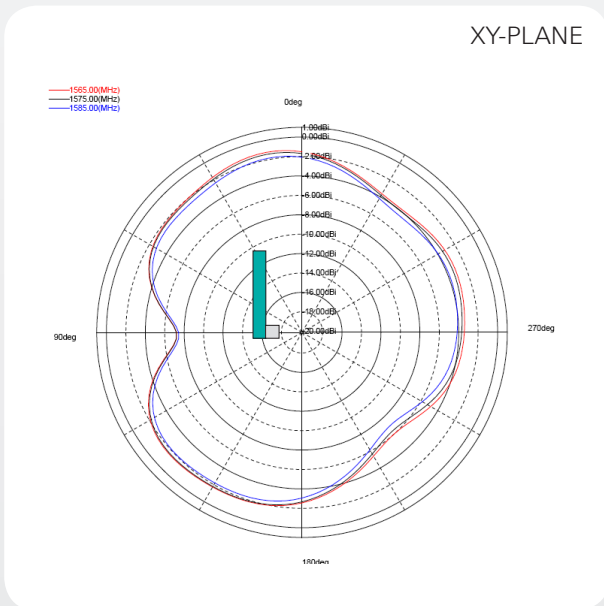
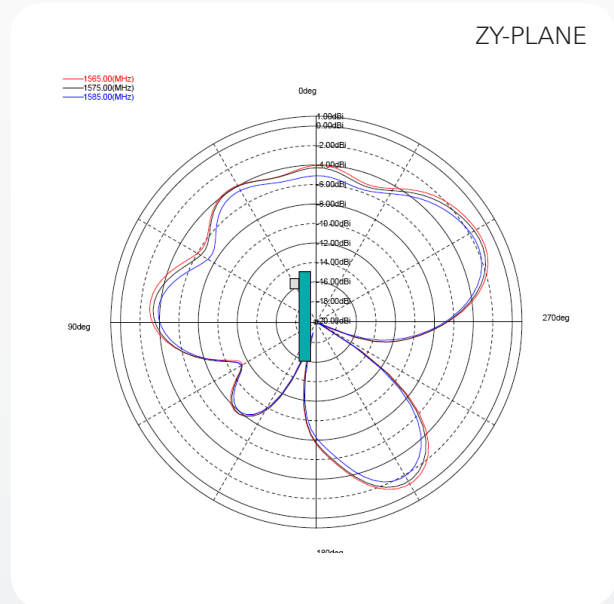
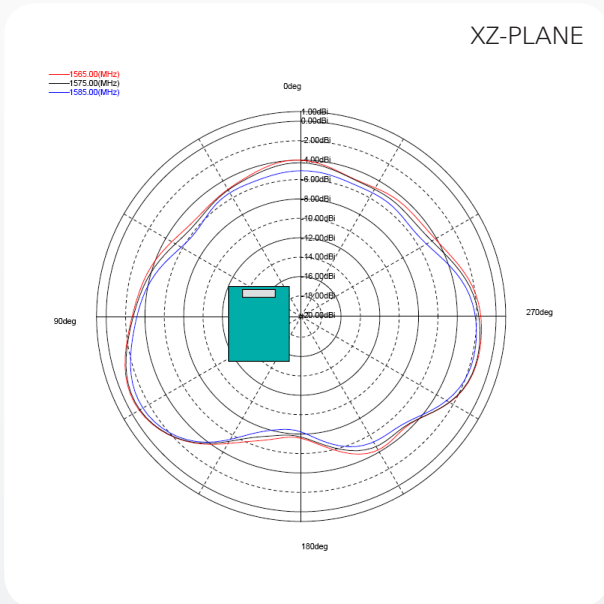


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GPS Antenna Case #2

Typical Free Space Radiation Patterns



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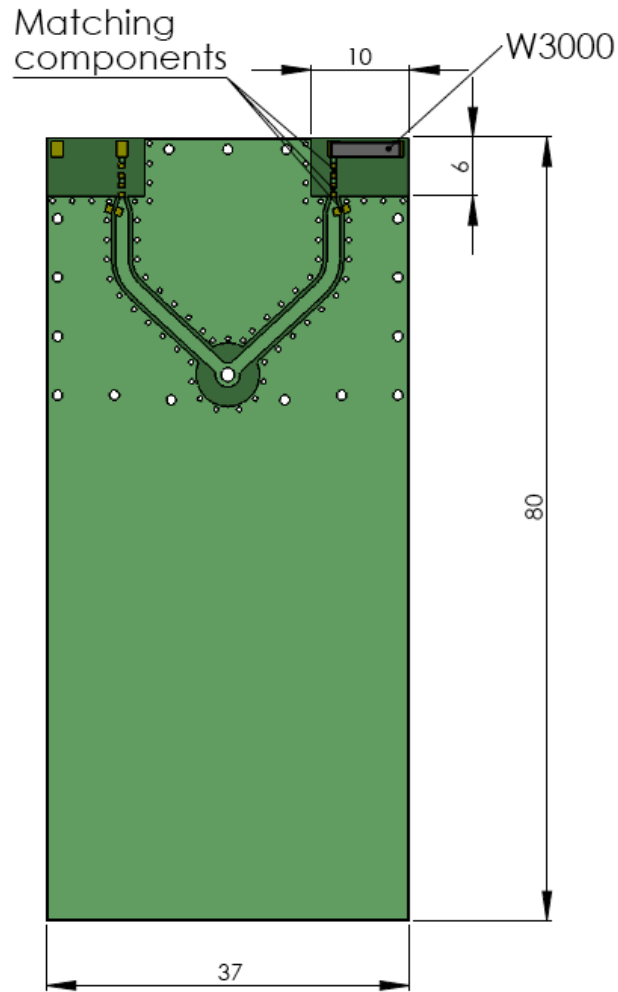
Ceramic Monopole Antenna

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GPS Antenna Case #3

Board Size 37 x 80 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



Pulse Finland Oy

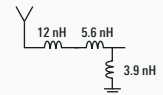
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Ceramic Monopole Antenna

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GPS Antenna Case #3, Test Set Up and Measurement Performance

Ground cleared under antenna, clearance area 20.00 x 6.00 mm.



Typical Electrical Characteristics (T=25 °C)

Measured on the 30 x 20 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.

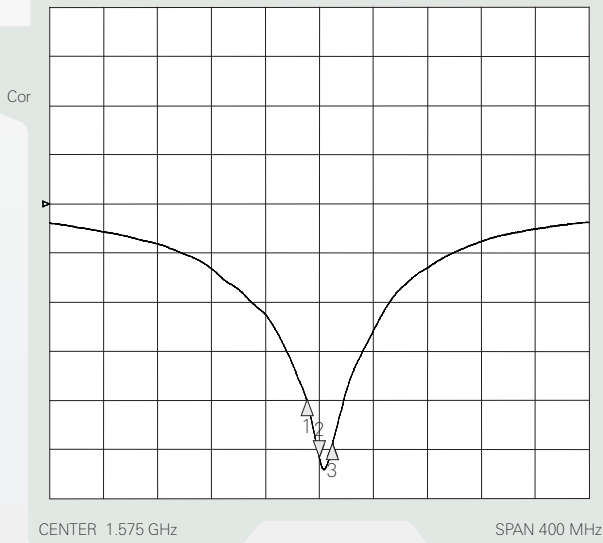
GPS 1.575 GHz Case #3

24 Feb 2009 12:57:25

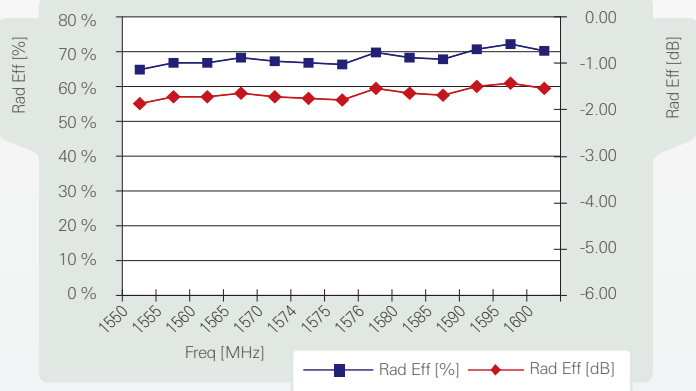
CH1 Markers

- 1. -19.931 dB 1.56550 GHz
- 2. -25.898 dB 1.57500 GHz
- 3. -24.453 dB 1.58500 GHz

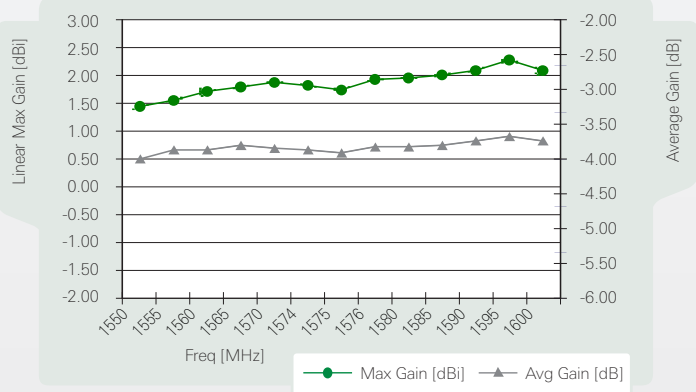
CH1 S11@MLOG 5 dB/REF 0 dB



GPS 1.575 GHz Case #3



GPS 1.575 GHz Case #3

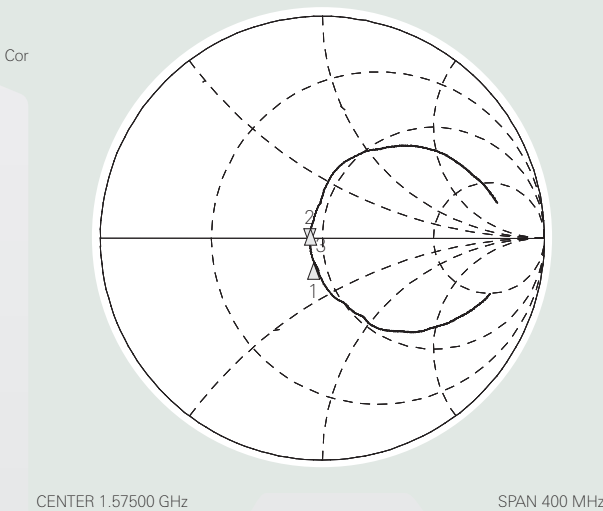


GPS 1.575 GHz #3

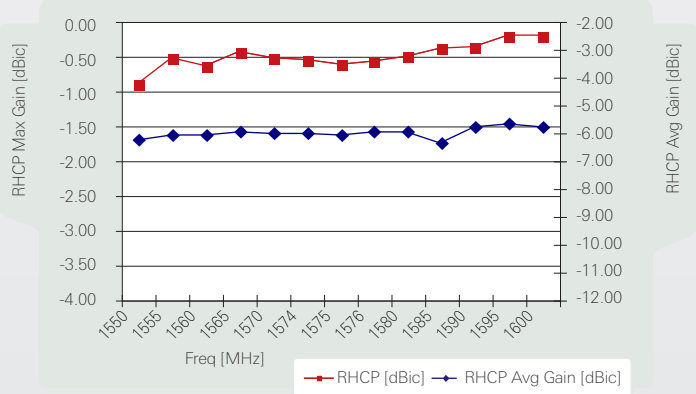
24 Feb 2008 12:55:57

- 1. 45.469 Ω -9.8496 Ω 1.56550 GHz
- 2. 44.766 Ω -3.0801 Ω 32.808 pF
- 3. 65.742 Ω 20.102 Ω 1.58500 GHz

CH1 S11@M 1 U FS



GPS 1.575 GHz Case #3



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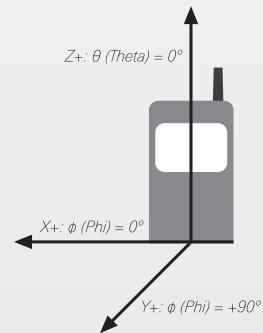
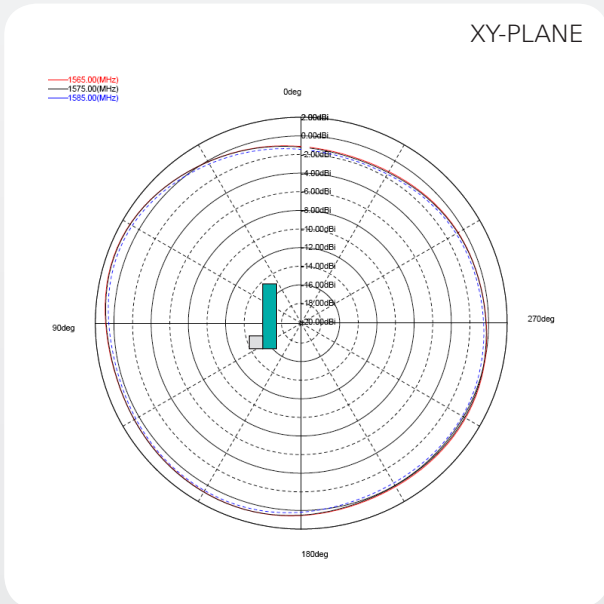
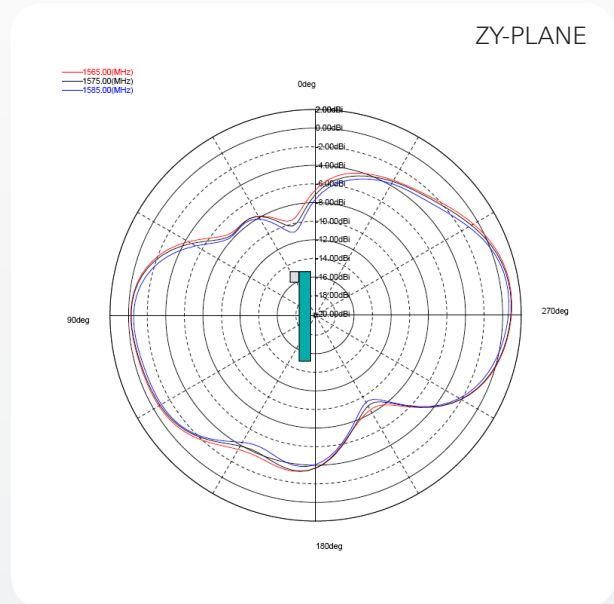
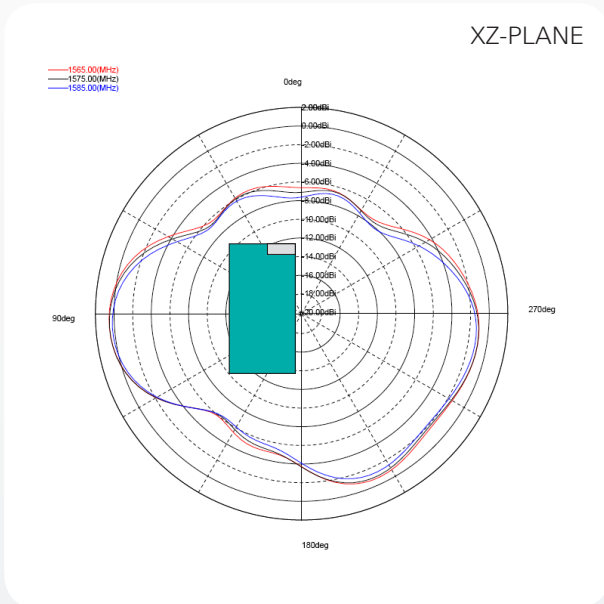


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GPS Antenna Case #3

Typical Free Space Radiation Patterns



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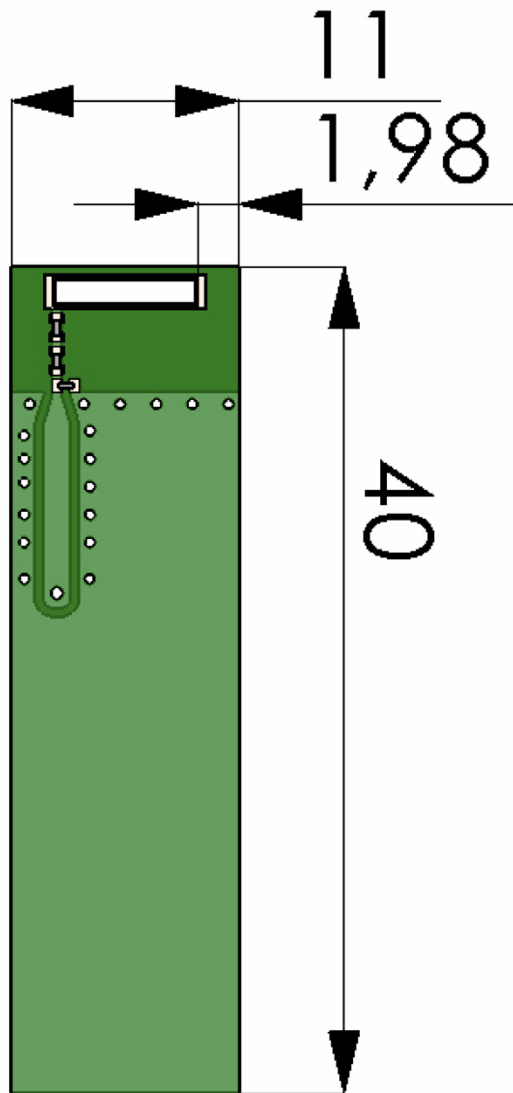
Ceramic Monopole Antenna

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WiFi Antenna Case #1

Board Size 40 x 11 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



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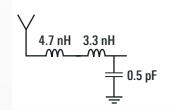
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WiFi Antenna Case #1, Test Set Up and Measurement Performance

Ground cleared under antenna, clearance area 11.00 x 6.00 mm.



Typical Electrical Characteristics (T=25 °C)

Measured on the 11 x 40 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.

2.4 GHz WiFi Case #1

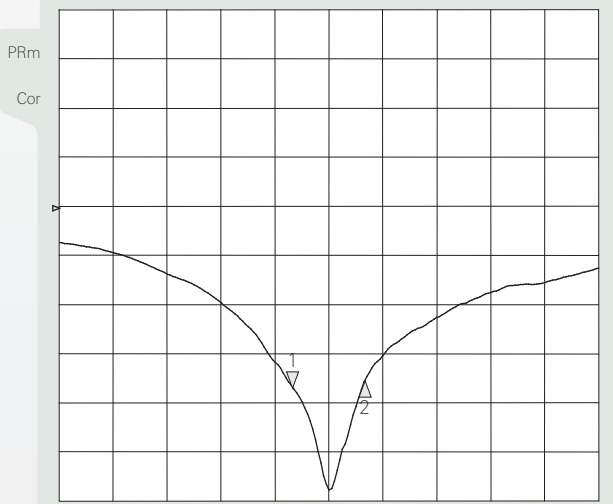
19 Oct 2008 23:52:24

CH1Markers

- 1. -21.743 dB 2.40000 GHz
- 2. -20.781 dB 2.48000 GHz

CH1 S11 LOG

6 dB/REF 0 dB



START 2140.000 000 MHz

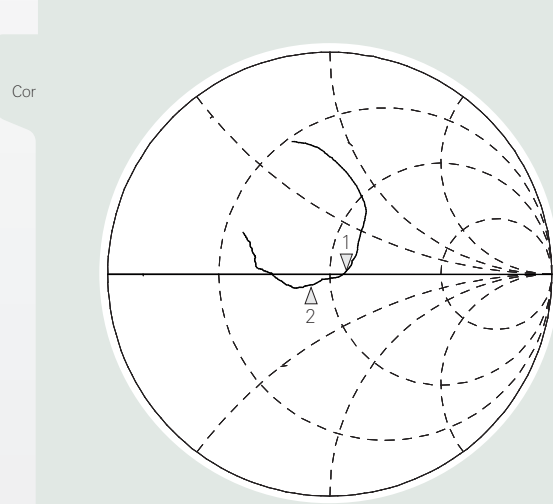
STOP 2740.000 000 MHz

2.4 GHz WiFi #1

11 Oct 2008 23:52:35

- 1. 58.187 Ω 1.8516 Ω 2.40000 GHz
- 2. 42.477 Ω -4.0078 Ω 2.48000 GHz
- 122.79 pH

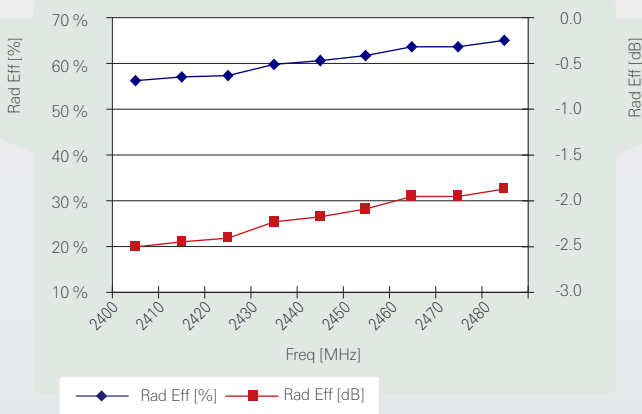
CH1 S11 1 U FS



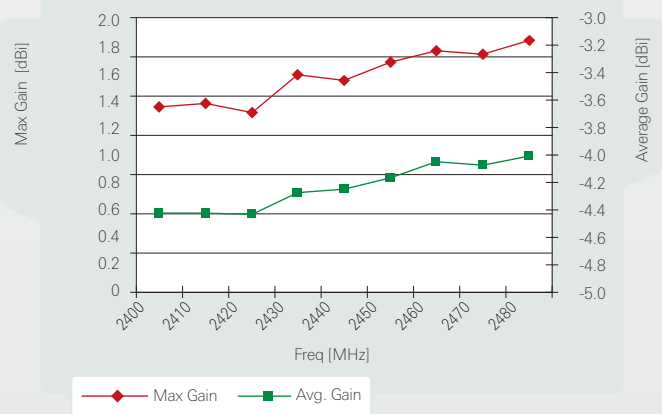
START 2140.000 MHz

STOP 2740.000 MHz

2.4 GHz WiFi Case #1



2.4 GHz WiFi Case #1



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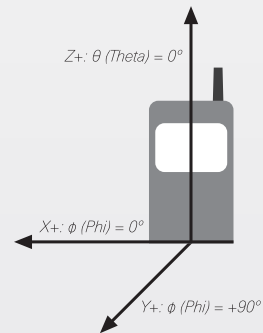
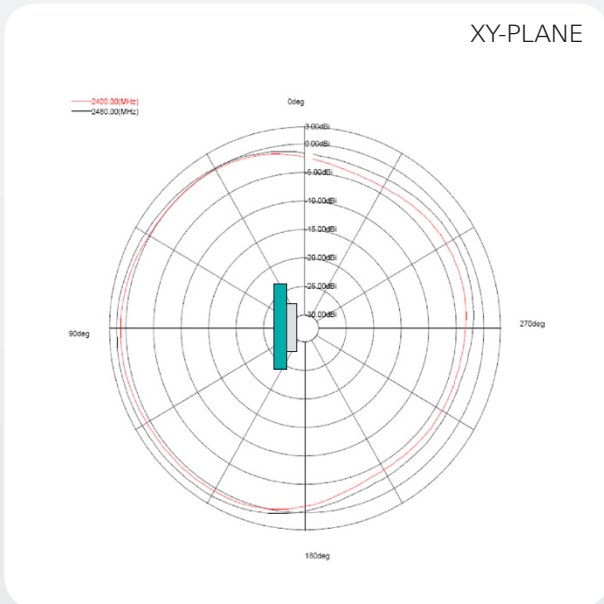
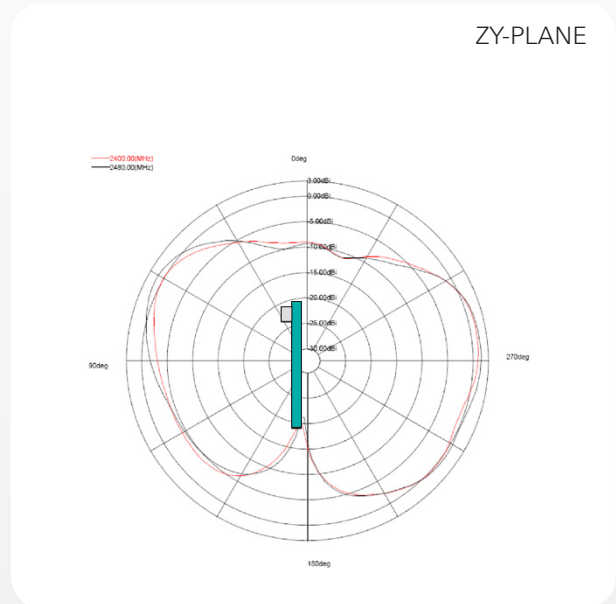
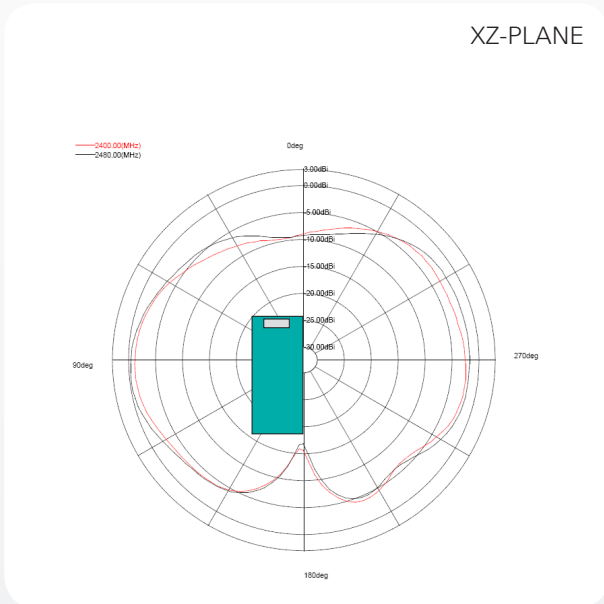


Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

WiFi Antenna Case #1

Typical Free Space Radiation Patterns



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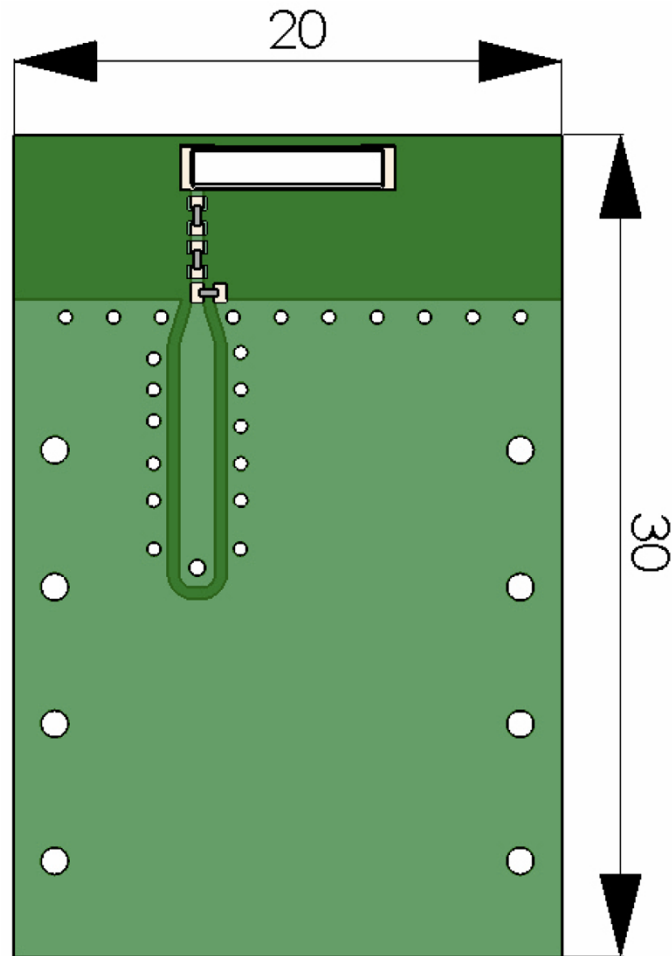
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

WiFi Antenna Case #2

Board Size 20 x 30 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



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Ceramic Monopole Antenna

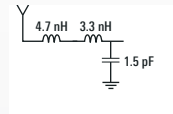
Ground cleared under antenna. Pulse Part Number: W3000

WiFi Antenna Case #2, Test Set Up and Measurement Performance

Ground cleared under antenna, clearance area 20.00 x 6.00 mm.

Typical Electrical Characteristics (T=25 °C)

Measured on the 30 x 20 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.



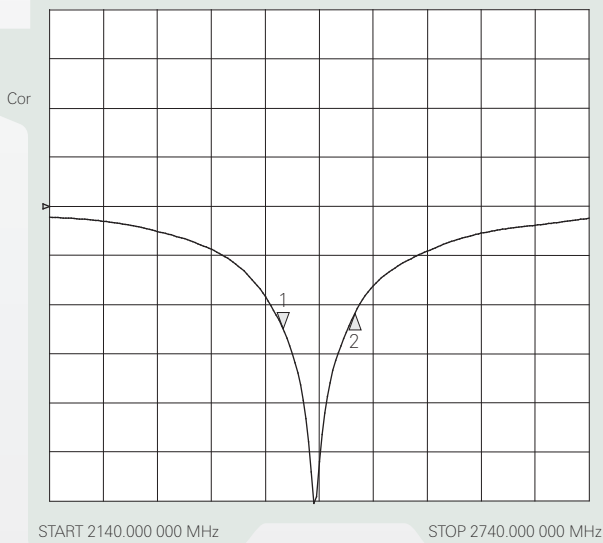
2.4 GHz WiFi Case #2

19 Oct 2008 23:48:18

CH1Markers

- 1. -15.093 dB 2.400 GHz
- 2. -12.933 dB 2.480 GHz

CH1 MLOG 6 dB/REF 0 dB



2.4 GHz WiFi #2

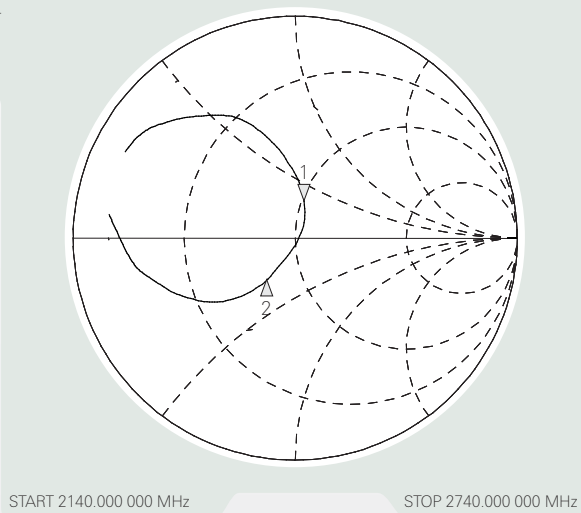
11 Feb 2008 11:47:36

CH1Markers

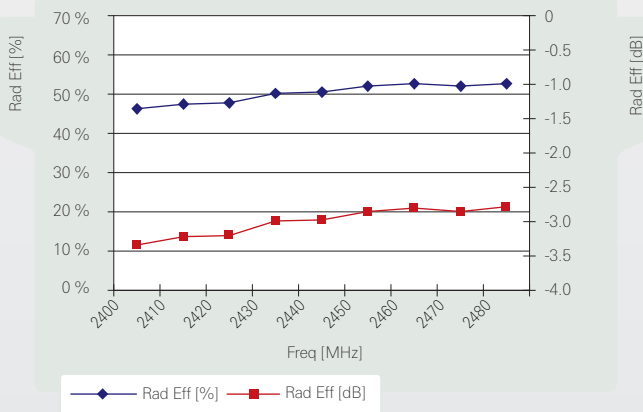
- 1. 51.129 Ω 18.035 Ω 2.40000 GHz
- 2. 36.529 Ω -14.525 Ω 2.48000 GHz
- 1.1960 nH

CH1 S11 1 U FS

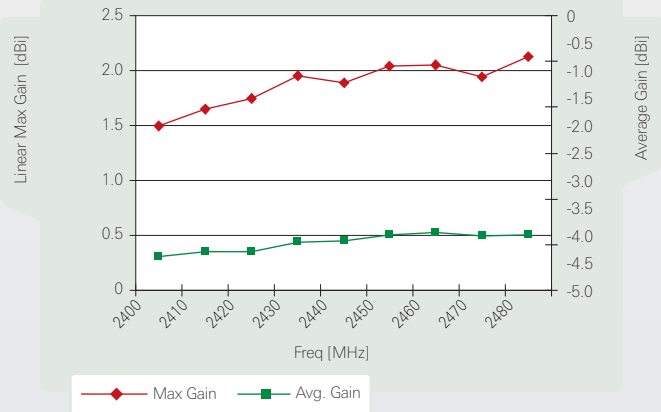
Cor



2.4 GHz WiFi Case #2



2.4 GHz WiFi Case #2



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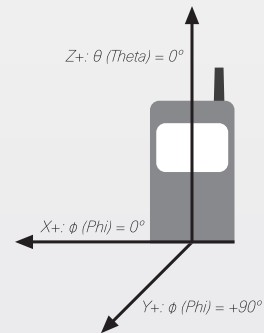
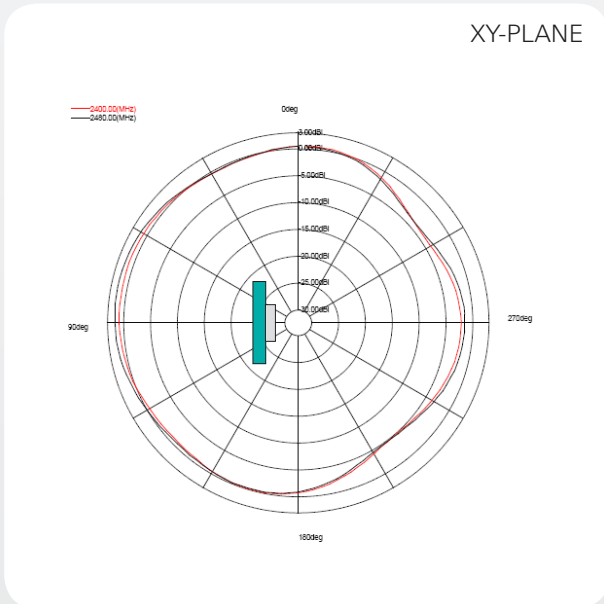
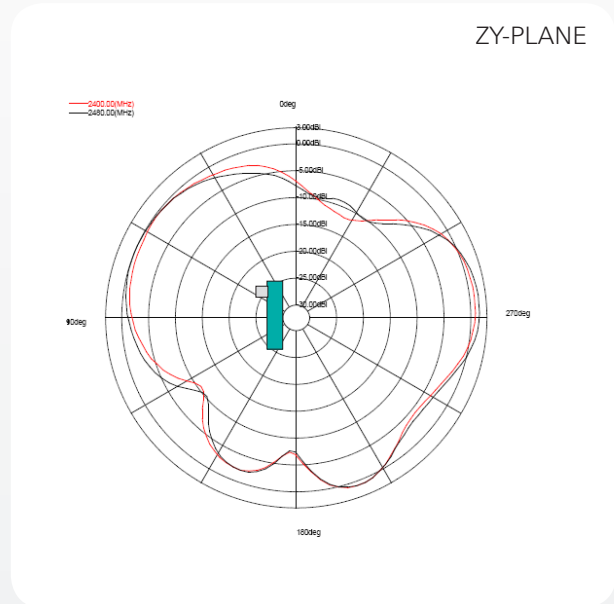
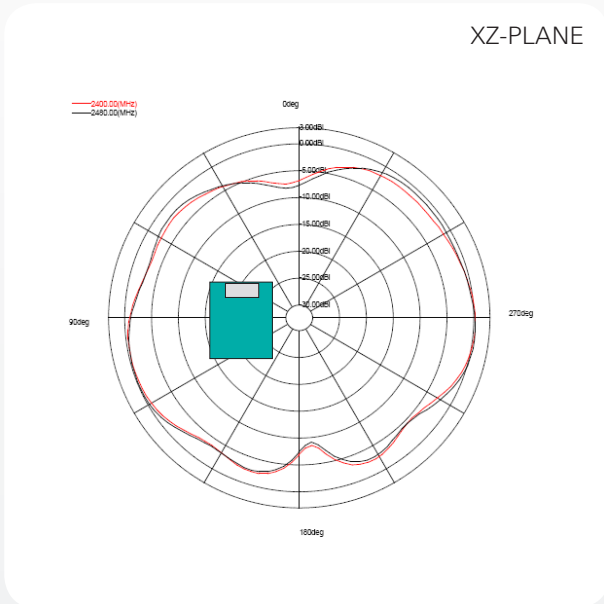


Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

WiFi Antenna Case #2

Typical Free Space Radiation Patterns



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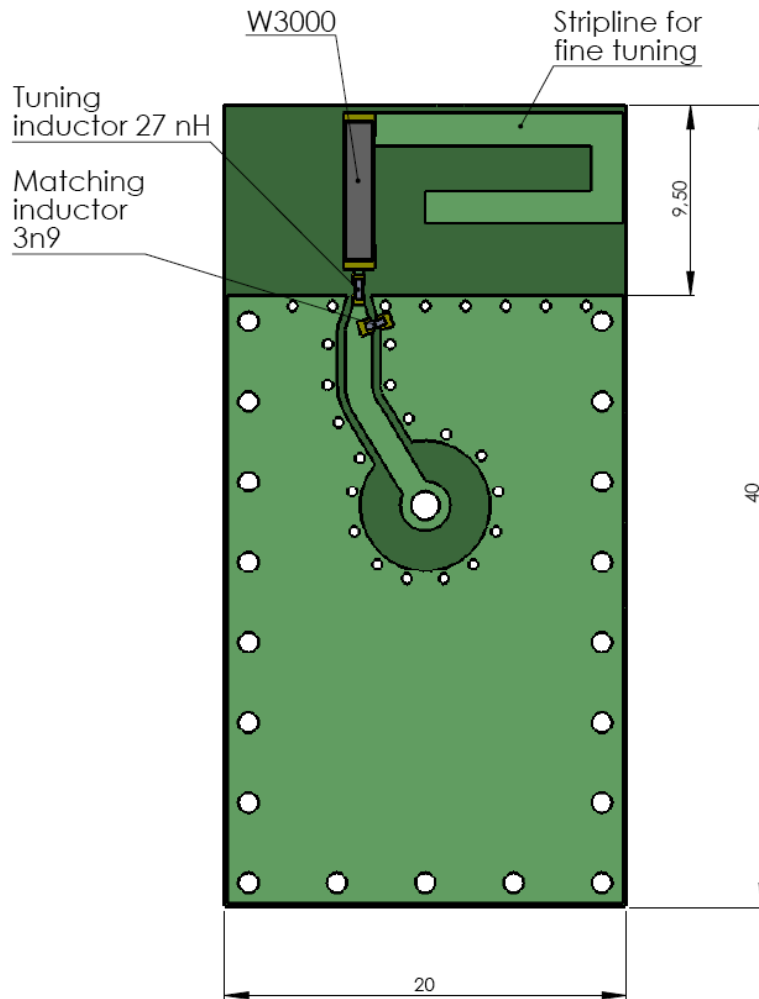
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #1

Board Size 20 x 40 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



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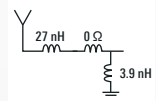
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #1, Test Set Up and Measurement Performance

Typical Electrical Characteristics (T=25 °C)

Measured on the 20 x 40 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain.



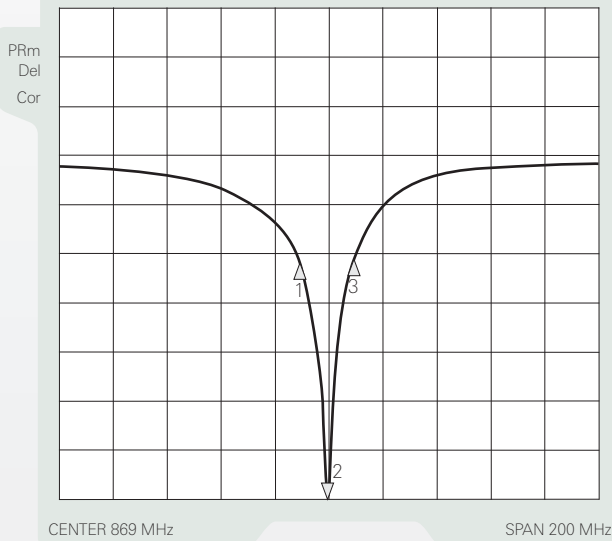
ISM 868 MHz Case #1

24 Mar 2009 16:05:57

CH1 S11&MLOG 5 dB/REF 0 dB

CH1 Markers

- 1. -10.887 dB 858 MHz
- 2. -35.538 dB 868 MHz
- 3. -10.836 dB 878 MHz

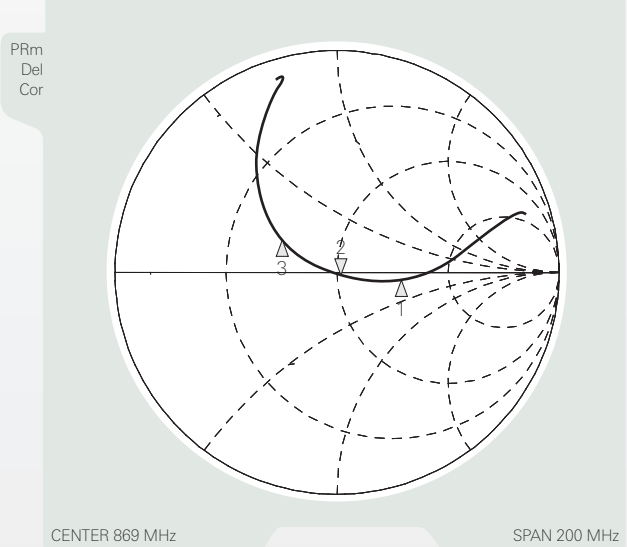


ISM 868 MHz #1

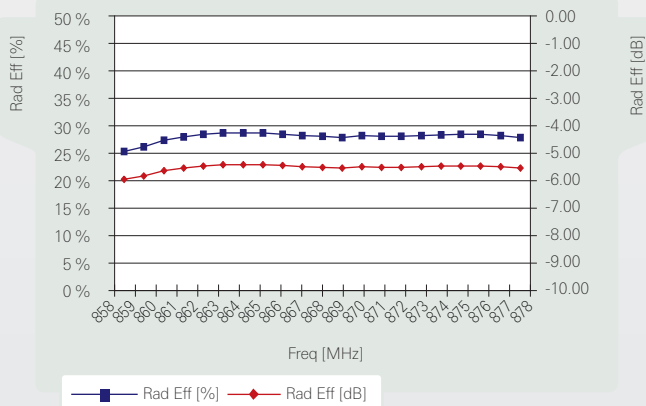
24 Mar 2009 16:06:06

CH1 S11&M 1 U FS

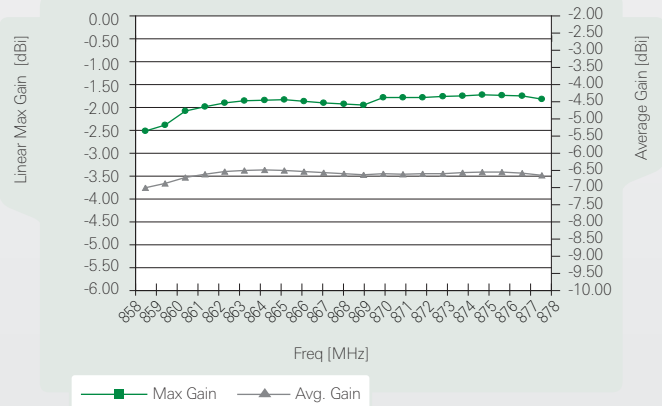
- 1. 90.109 Ω -5.8008 Ω 858 MHz
- 2. 51.600 Ω -1.2168 Ω 150.69 pF 868 MHz
- 3. 29.132 Ω -9.9443 Ω 878 MHz



ISM 868 MHz Case #1



ISM 868 MHz Case #1



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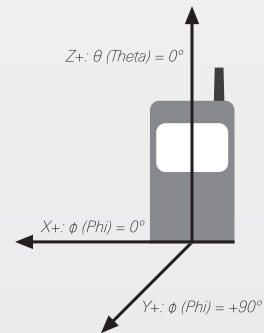
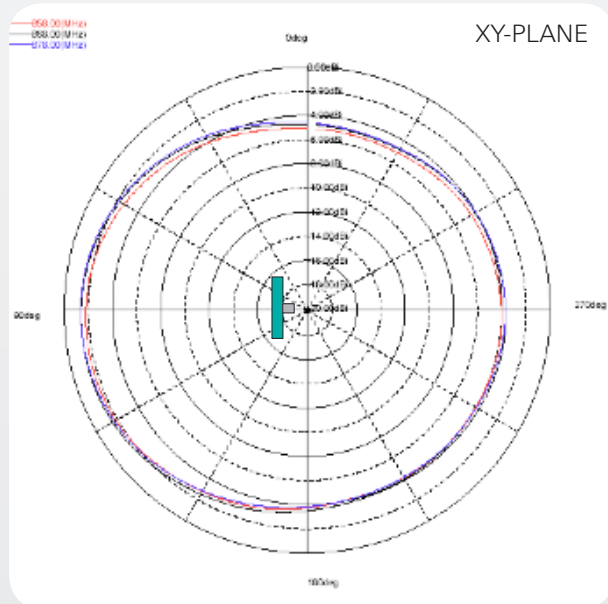
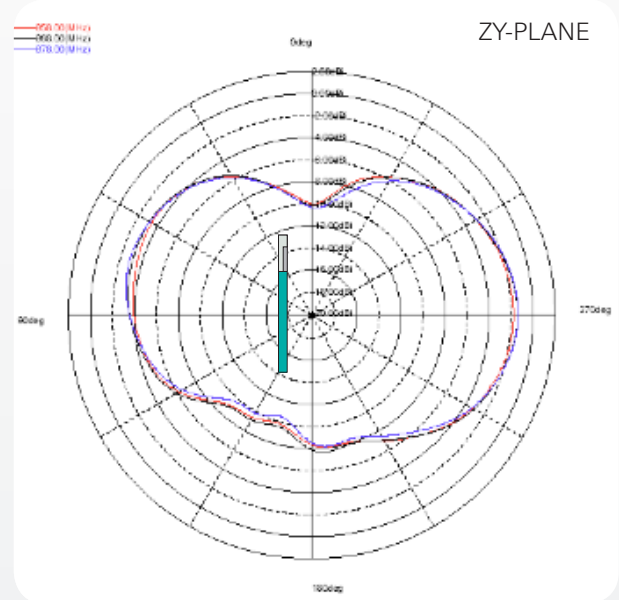
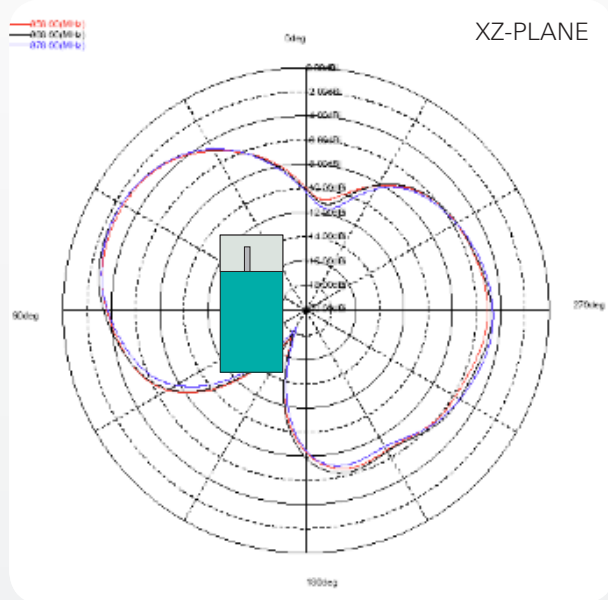


Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #1

Typical Free Space Radiation Patterns



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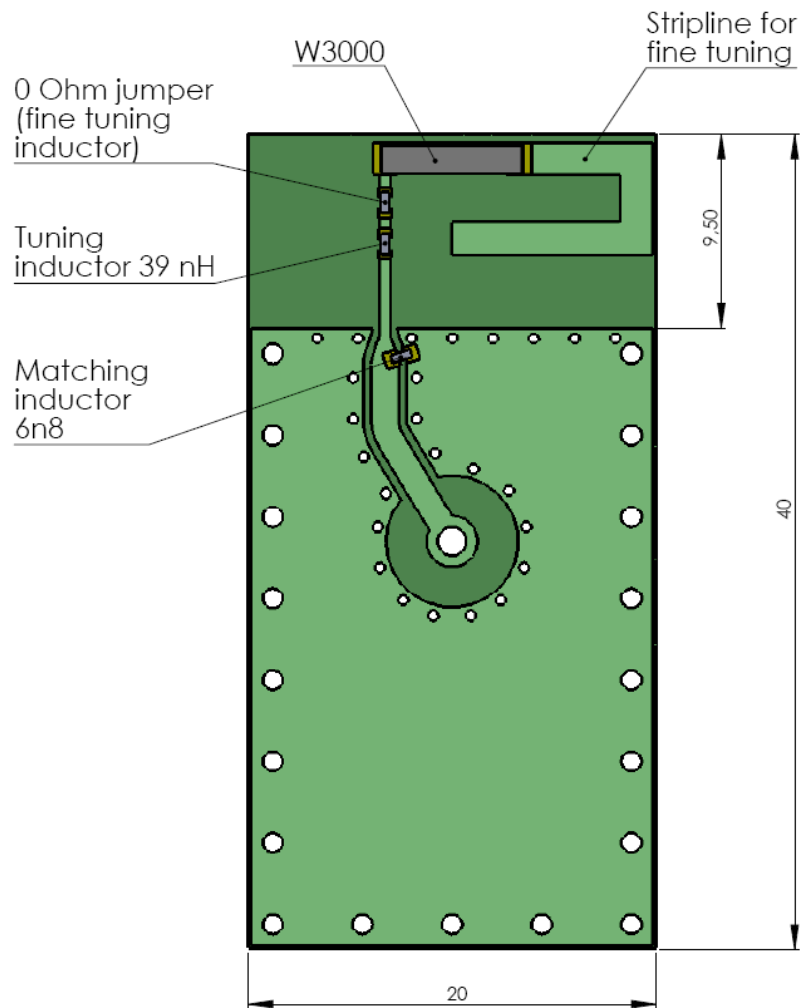
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #2

Board Size 20 x 40 mm

Recommended antenna position on PWB for W3000 MONOPOLE Antenna



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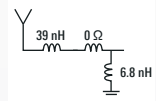
Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #2, Test Set Up and Measurement Performance

Typical Electrical Characteristics (T=25 °C)

Measured on the 20 x 40 mm test board with matching circuit. Measured in antenna position1 on PWB layout, see previous page. Typical Return Loss S11/ impedance, free space efficiency and gain



ISM 868 MHz Case #2

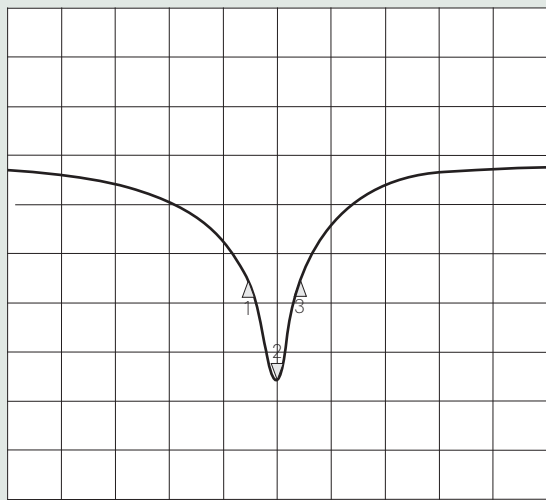
24 Mar 2009 16:07:15

CH1 S11&MLOG 5 dB/REF 0 dB

CH1Markers

- 1. -13.086 dB 858 MHz
- 2. -23.108 dB 868 MHz
- 3. -12.887 dB 878 MHz

PRm
Del
Cor



CENTER 440.000 000 MHz

SPAN 800.000 000 MHz

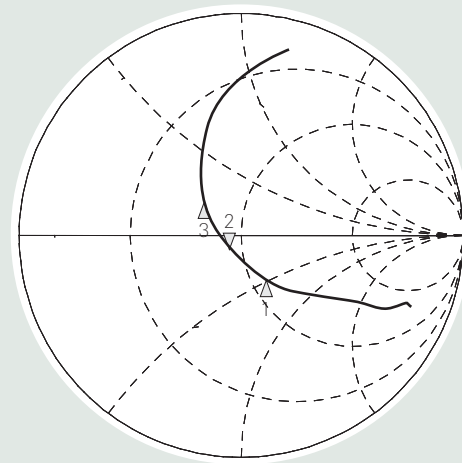
ISM 868 MHz #2

24 Mar 2009 16:07:23

CH1 S11&M 1 U FS

- 1. 57.971 Ω -23.721 Ω 858 MHz
- 2. 45.375 Ω -5.0918 Ω 36.011 pF 868MHz
- 3. 35.385 Ω -11.094 Ω 878 MHz

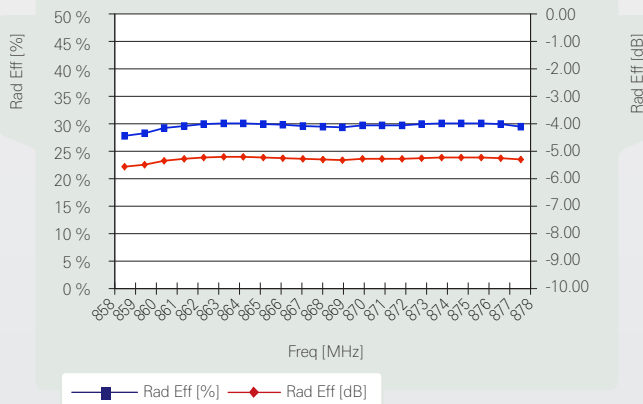
PRm
Del
Cor



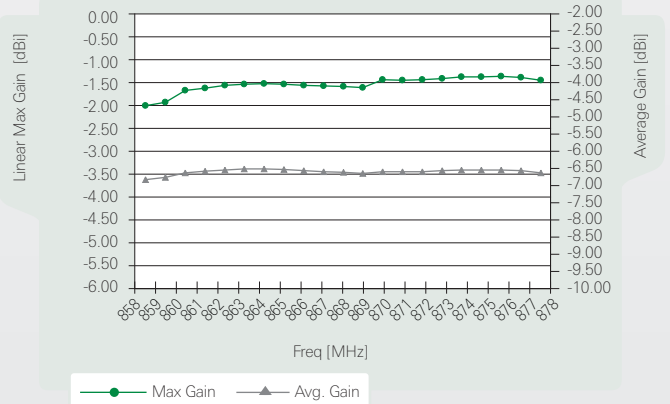
CENTER 440.000 000 MHz

SPAN 800.000 000 MHz

ISM 868 MHz Case #2



ISM 868 MHz Case #2



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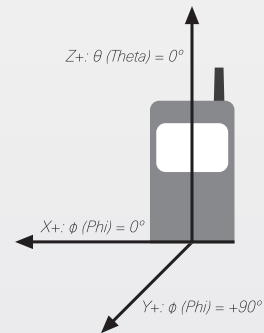
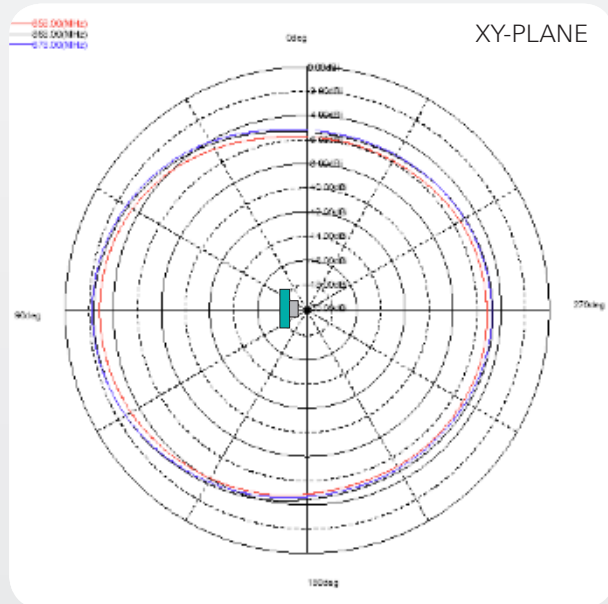
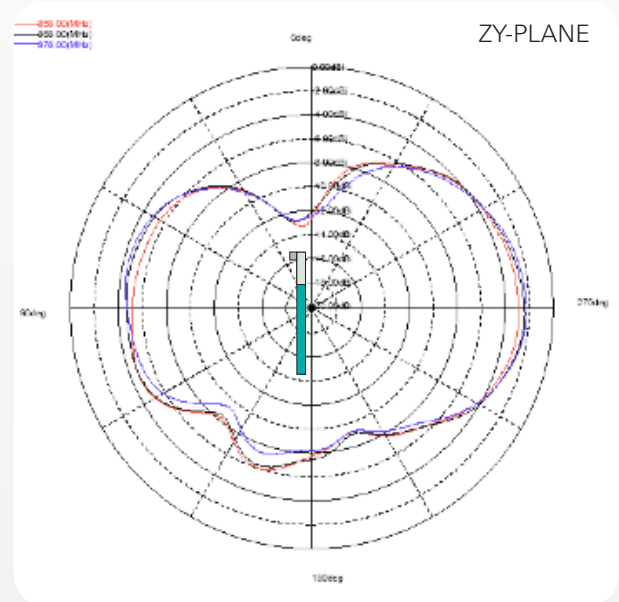
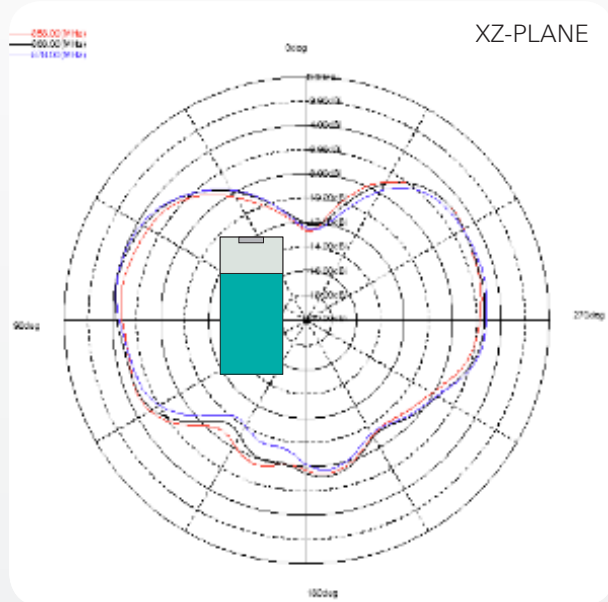


Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

ISM 868 MHz Antenna Case #2

Typical Free Space Radiation Patterns



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Ceramic Monopole Antenna

Ground cleared under antenna. Pulse Part Number: W3000

For More Information, Please Contact

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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.