"High Frequency Ceramic Solutions"

433 MHz Antenna

P/N 0433AT62A0020

Detail Specification: 02/25/10

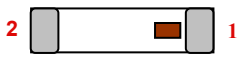
General Specifications

Part Number	0433AT62A0020
Frequency Range	423 - 443 MHz
Peak Gain (XZ-total)	-4.0 dBi typ.
Average Gain (XZ-total)	-4.0 dBi typ.
Return Loss	9.5 dB min.
Impedance	50 Ω
Input Power	2W max.
Reel Quantity	500

Operating Temperature	-40 to +85°C
Storage Temperature Range	+5 ~ +35 °C, Humidity 45~75%RH, 12 mos. max
Power Capacity	2W max

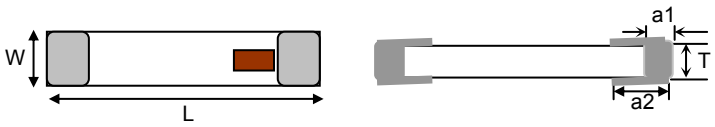
No.	Function
1	Feeding Point
2	NC

Terminal Configuration



Mechanical Dimensions

	In	mm
L	0.984 ± 0.008	25.00 ± 0.20
W	0.197 ± 0.008	5.00 ± 0.20
T	0.047 ± 0.004	1.20 ± 0.10
a	0.020 ± 0.008	0.50 ± 0.20
a2	0.039 ± 0.008	1.00 ± 0.20



Mounting Considerations

Mount these devices with brown mark facing up. Units: mm

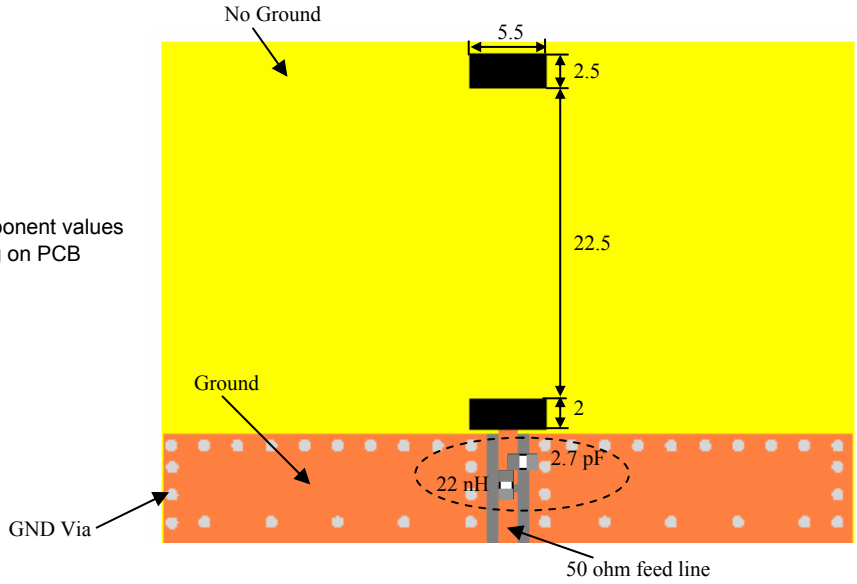
* Line width should be designed to provide 50 Ω impedance matching characteristics.

With Matching Circuit

Solder Resist

Land

(Matching circuit and component values will be different, depending on PCB layout)



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY

www.johansontechnology.com

4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2010 Johanson Technology, Inc. All Rights Reserved

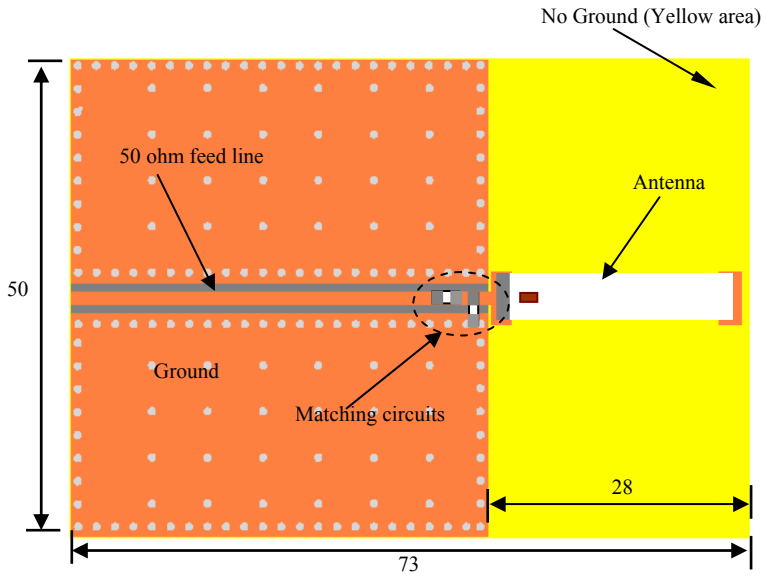
433 MHz Antenna **P/N 0433AT62A0020**

Detail Specification: 02/25/10

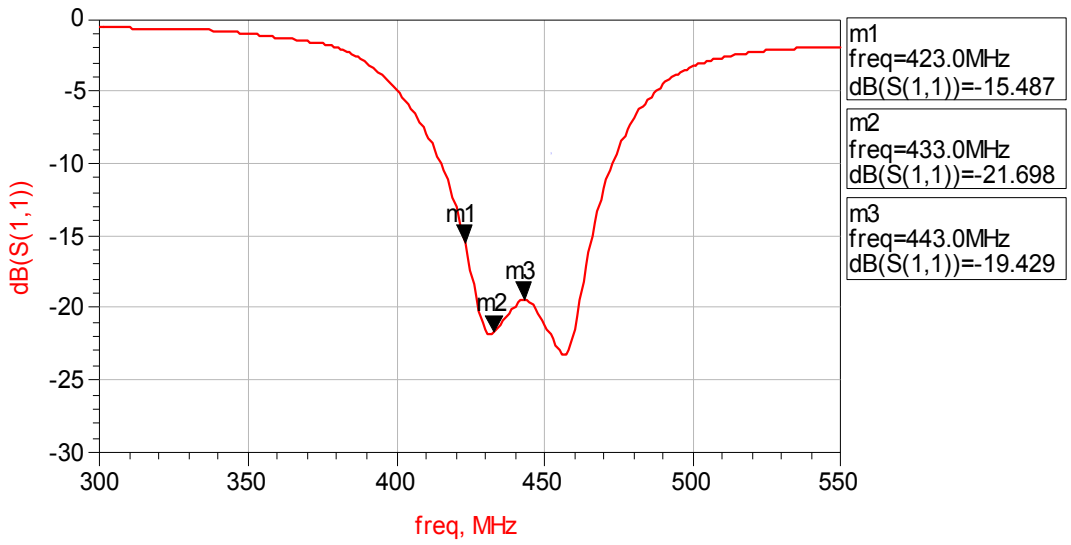
Mounting Considerations

Test Board

units in mm



Return Loss (with matching)



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY

www.johansontechnology.com

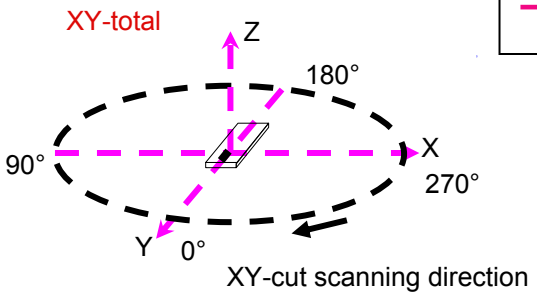
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2010 Johanson Technology, Inc. All Rights Reserved

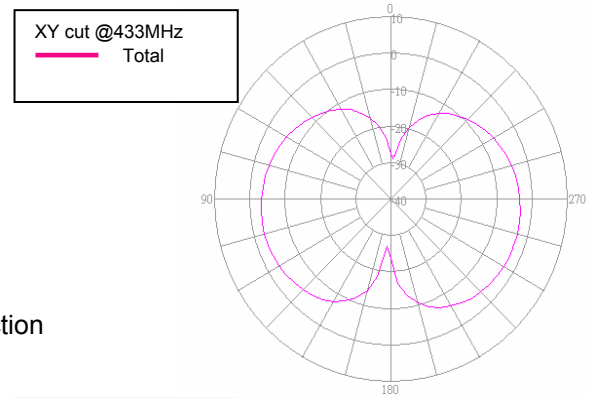
433 MHz Antenna **P/N 0433AT62A0020**

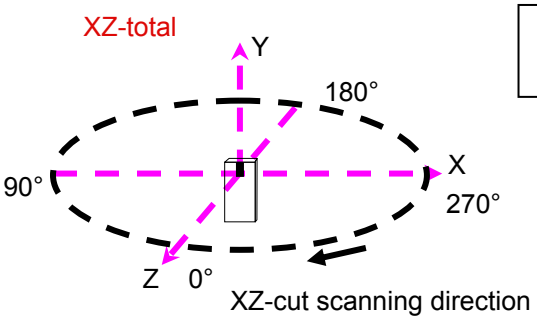
Detail Specification: 02/25/10

Radiation Patterns

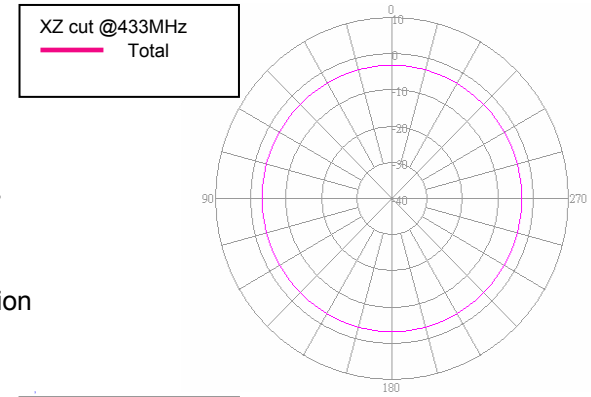


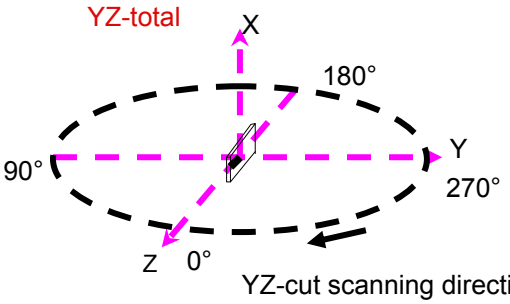
XY-cut scanning direction



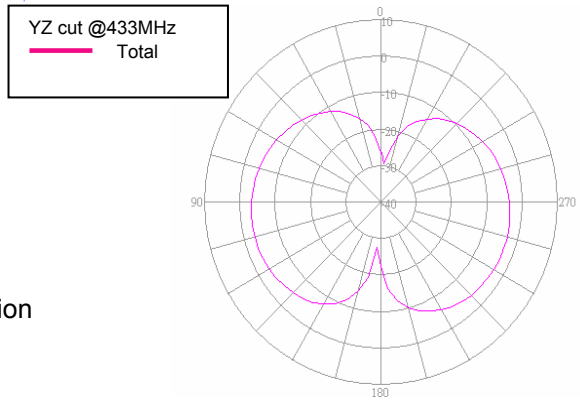


XZ-cut scanning direction





YZ-cut scanning direction



Johanson Technology, Inc. reserves the right to make design changes without notice.
All sales are subject to Johanson Technology, Inc. terms and conditions.

JOHANSON TECHNOLOGY
www.johansontechnology.com
4001 Calle Tecate • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2010 Johanson Technology, Inc. All Rights Reserved