

"High Frequency Ceramic Solutions"

2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 08/10/09

Page 1 of 3

General Specifications

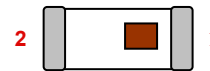
| | |
|-----------------|----------------------|
| Part Number | 2450AT18B100 |
| Frequency Range | 2400 - 2500 Mhz |
| Peak Gain | 0.5 dBi typ. (XZ-V) |
| Average Gain | -0.5 dBi typ. (XZ-V) |
| Return Loss | 9.5 dB min. |

| | |
|-----------------------|--------------|
| Input Power | 3W max. |
| Impedance | 50 Ω |
| Operating Temperature | -40 to +85°C |
| Reel Quantity | 3,000 |

| | | | | |
|--------|-------------------|------------|------------------------|--------------------------|
| P/N | Packaging Style | Bulk | Suffix = S | Eg. 2450AT18B100S |
| | | T & R | Suffix = E | Eg. 2450AT18B100E |
| Suffix | Termination Style | 100% Tin | Suffix = None | Eg. 2450AT18B100(E or S) |
| | | Tin / Lead | Please consult Factory | |

Terminal Configuration

| No. | Function |
|-----|---------------|
| 1 | Feeding Point |
| 2 | NC |



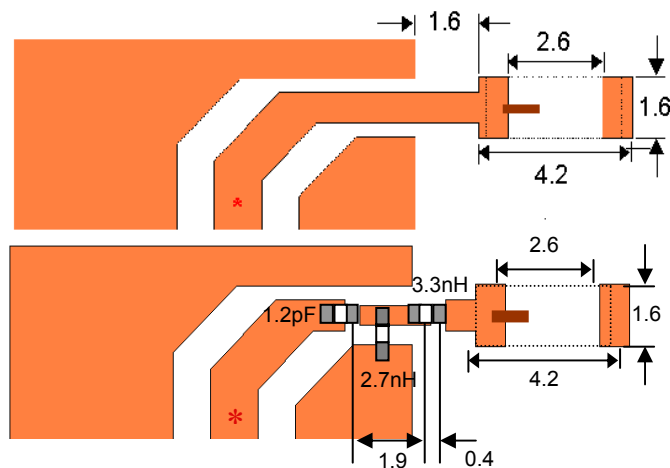
Mechanical Dimensions

| | In | mm |
|---|--------------------|----------------|
| L | 0.126 ± 0.008 | 3.20 ± 0.20 |
| W | 0.063 ± 0.008 | 1.60 ± 0.20 |
| T | 0.051 +.004/-0.008 | 1.30 +0.1/-0.2 |
| a | 0.020 ± 0.012 | 0.50 ± 0.30 |

Mounting Considerations

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

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



a) Without Matching Circuits

b) With Matching Circuits

JTI P/N for Matching Circuit:
 Cap (1.2pF): 500R07S1R2BV4T
 Inductor (2.7nH): L-07C2N7SV6T
 Inductor (3.3nH): L-07C3N3SV6T

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



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

2009 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

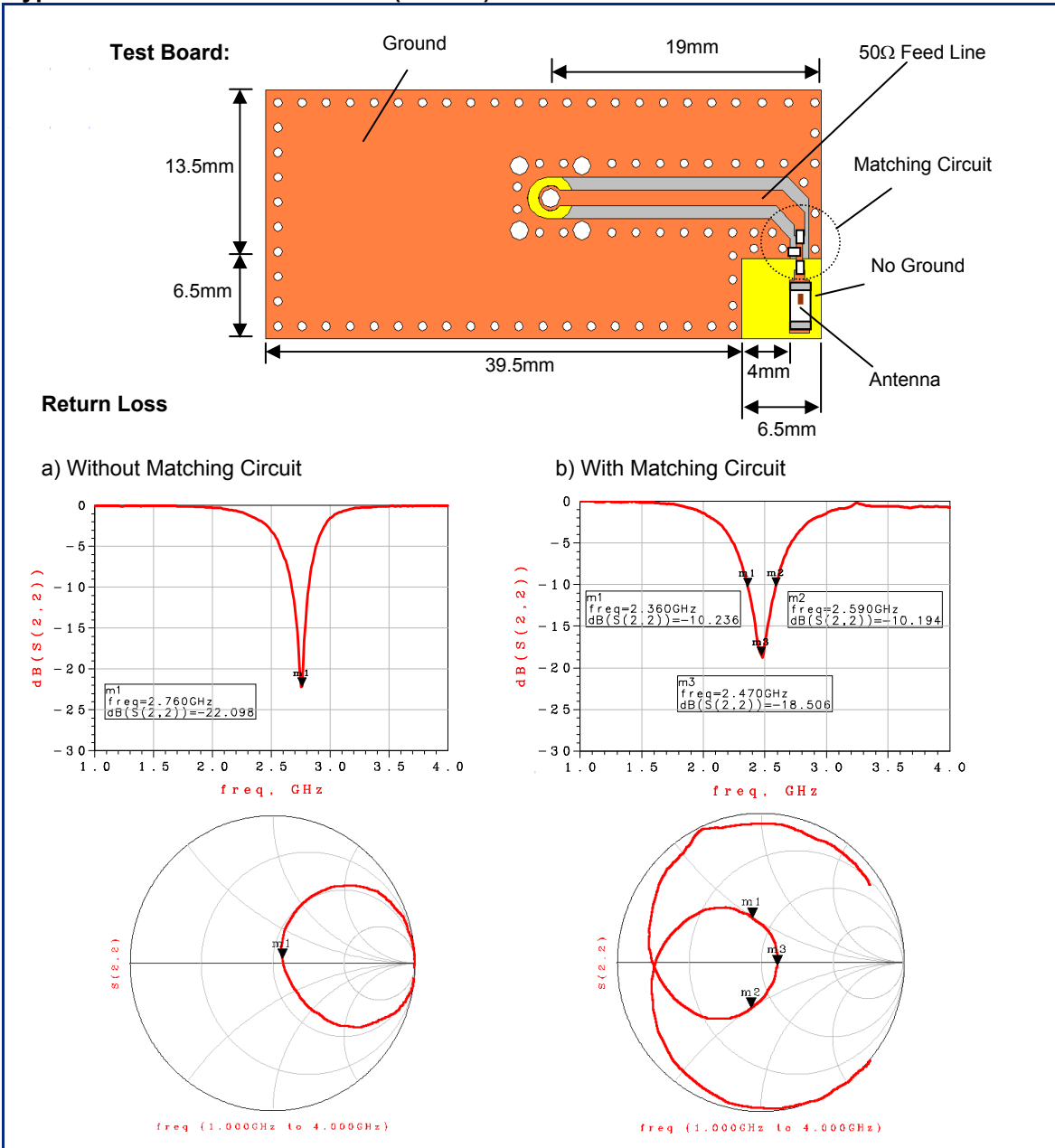
2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 08/10/09

Page 2 of 3

Typical Electrical Characteristics (T=25°C)



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



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

2009 Johanson Technology, Inc. All Rights Reserved

"High Frequency Ceramic Solutions"

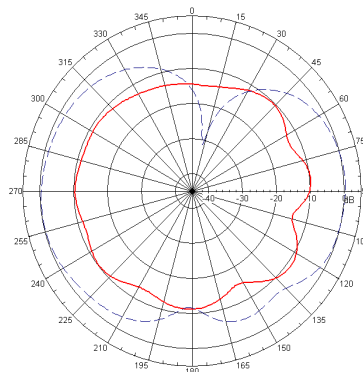
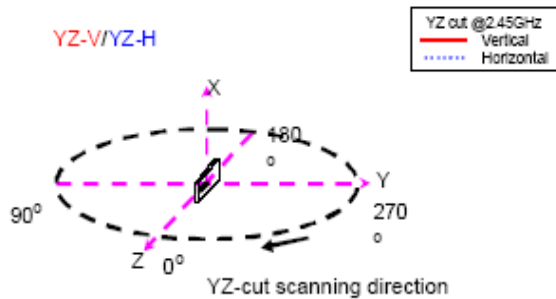
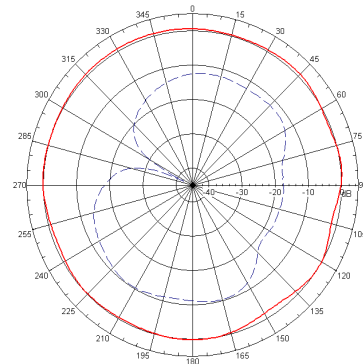
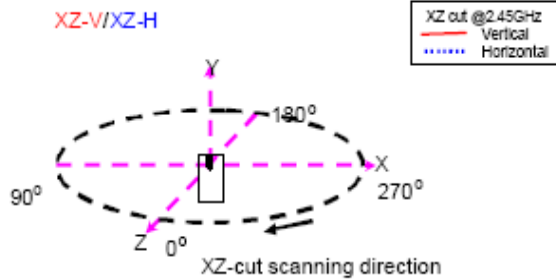
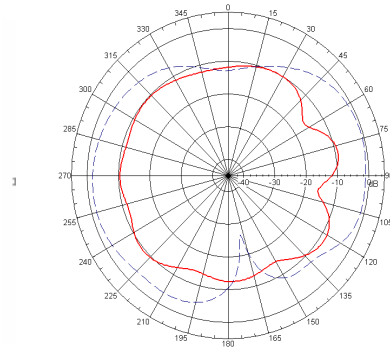
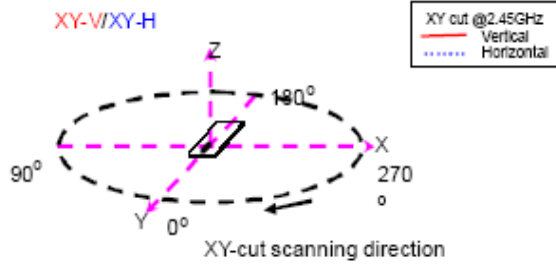
2450 MHz Antenna

P/N 2450AT18B100

Detail Specification: 08/10/09

Page 3 of 3

Typical Radiation Patterns



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



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

2009 Johanson Technology, Inc. All Rights Reserved