

PRELIMINARY

2450 MHz Directional Coupler

P/N 2450CP14B100

Detail Specification: 01/11/06

Page 1 of 2

General Specifications

| | |
|------------------------|----------------|
| Part Number | 2450CP14B100 |
| Frequency (MHz) | 2400 - 2500 |
| Insertion Loss | 0.34 dB max. |
| Return Loss | 15.6 dB min. |
| Coupling | 17.65 ± 1.0 dB |
| Isolation | 25.0 dB min. |

| | |
|------------------------------|--------------|
| Impedance | 50 Ω |
| Input Power | 3 Watt max. |
| Operating Temperature | -40 to +85°C |
| Storage Temperature | -40 to +85°C |
| Reel Quantity | 4,000 |

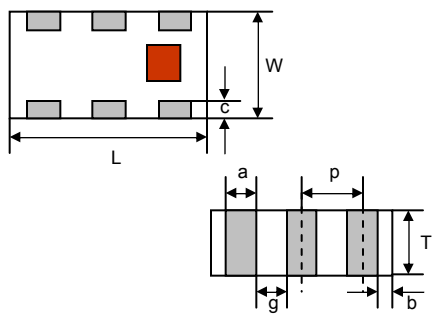
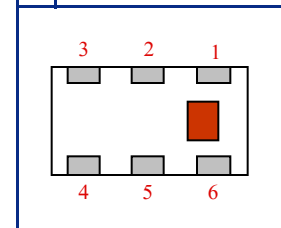
| | | | | |
|-------------------|--------------------------|------------|---------------|-----------------------------|
| P/N Suffix | Packaging Style | Bulk | Suffix = S | Eg. 2450CP14B100S |
| | Style | T & R | Suffix = E | Eg. 2450CP14B100E |
| | Termination Style | 100% Tin | Suffix = None | Eg. 2450CP14B100(E or S) |
| | | Tin / Lead | Suffix = /Pb | Eg. 2450CP14B100(E or S)/Pb |

Terminal Configuration

| No. | Function |
|-----|-------------|
| 1 | IN |
| 2 | GND |
| 3 | Coupled Out |
| 4 | Termination |
| 5 | GND |
| 6 | Main Out |

Mechanical Dimensions

| | In | mm |
|----------|--------------------|-----------------|
| L | 0.063 ± 0.004 | 1.60 ± 0.10 |
| W | 0.031 ± 0.004 | 0.80 ± 0.10 |
| T | 0.024 ± 0.004 | 0.60 ± 0.10 |
| a | 0.008 ± 0.004 | 0.20 ± 0.10 |
| b | 0.008 +.004/-0.008 | 0.20 +0.1/-0.15 |
| c | 0.006 ± 0.004 | 0.15 ± 0.10 |
| g | 0.012 ± 0.004 | 0.30 ± 0.10 |
| p | 0.020 ± 0.002 | 0.50 ± 0.05 |

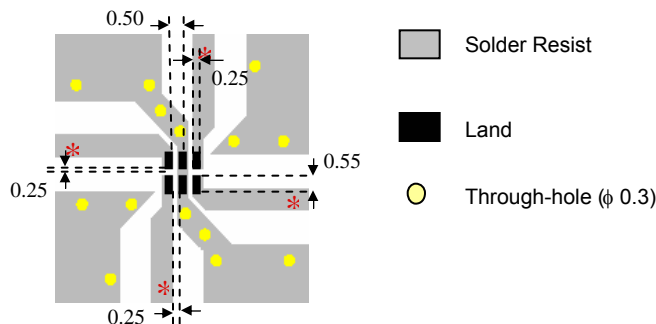



Mounting Considerations

Mount these devices with brown mark facing up.

* Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness

Units: mm



Johanson Technology, Inc. reserves the right to make design changes without notice.

All sales are subject to Johanson Technology, Inc. terms and conditions.



www.johansontechology.com

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved

PRELIMINARY

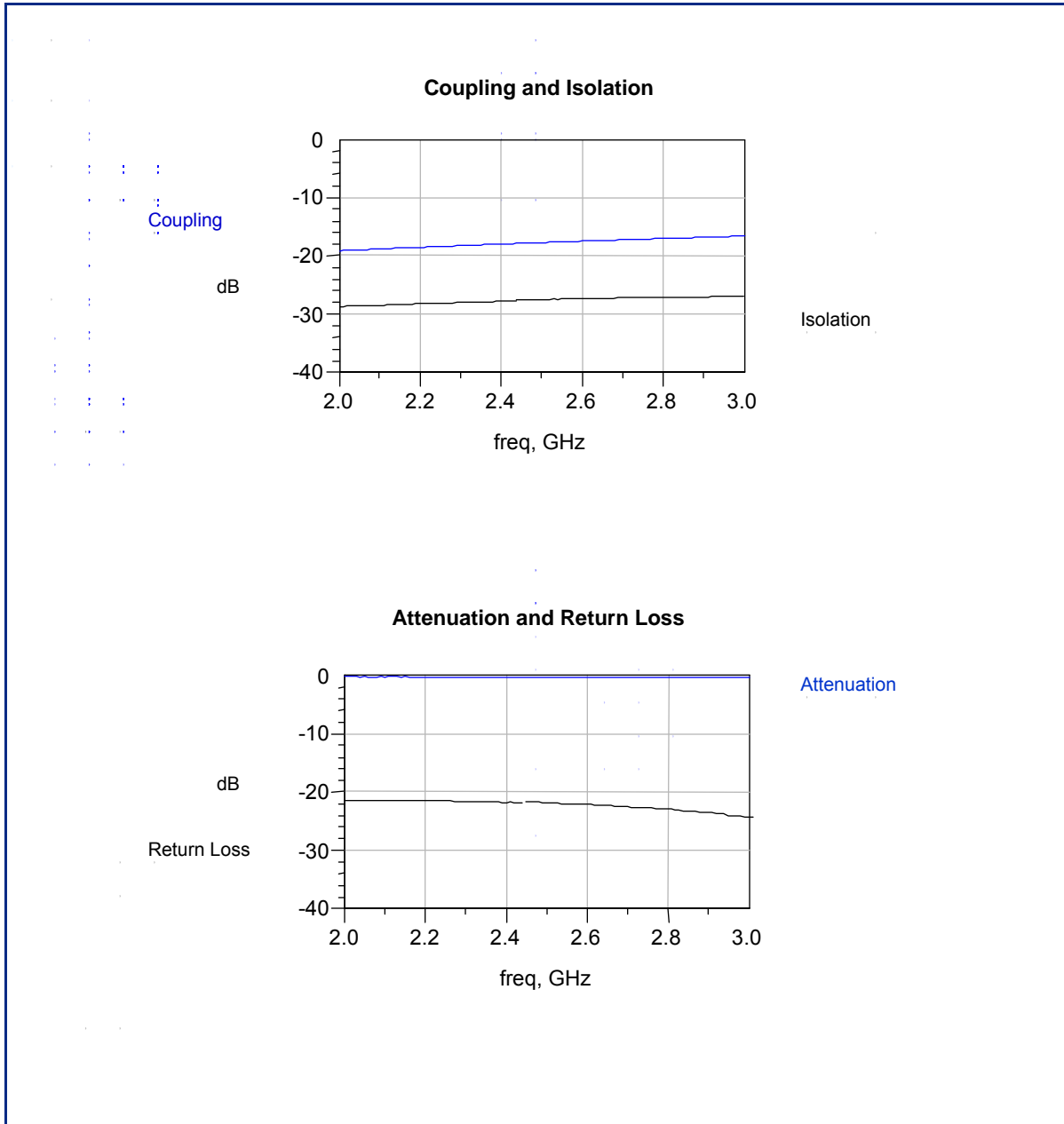
2450 MHz Directional Coupler

P/N 2450CP14B100

Detail Specification: 01/11/06

Page 2 of 2

Typical Electrical Performance (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

931 Via Alondra • Camarillo, CA 93012 • TEL 805.389.1166 FAX 805.389.1821

2003 Johanson Technology, Inc. All Rights Reserved