



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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PRELIMINARY

870/1810 MHz Dual Band Directional Coupler

P/N 0869CD14A1810

Detail Specification: 04/28/06

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General Specifications

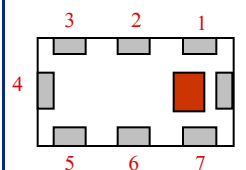
| | | |
|----------------------------|---------------------------|---------------|
| Part Number | 0869CD14A1810 | |
| | Band 1 | Band 2 |
| Frequency (MHz) | 824 - 915 | 1710 - 1910 |
| Insertion Loss @ BW | 0.40 dB max. | 0.40 dB max. |
| Coupling | 19.5 ± 1.0 dB | 19.5 ± 1.0 dB |
| VSWR | 1.5 dB max. | 1.5 dB max. |
| Isolation | Band 1(IN) --> Terminated | 30.0 dB min. |
| | Band 2(IN) --> Terminated | 30.0 dB min. |

| | |
|--------------------------------------|--------------|
| Power Capacity Band 1 | x Watts max. |
| Power Capacity Band 2 | x Watts max. |
| Impedance | 50 Ω |
| Operating & Storage Temp. | -40 to +85°C |
| Reel Quantity | 4,000 |

| | | | | |
|---------------|--------------------------|------------|------------------------|---------------------------|
| P/N | Packaging Style | Bulk | Suffix = S | Eg. 0869CD14A1810S |
| | | T & R | Suffix = E | Eg. 0869CD14A1810E |
| Suffix | Termination Style | 100% Tin | Suffix = None | Eg. 0869CD14A1810(E or S) |
| | | Tin / Lead | Please Contact Factory | |

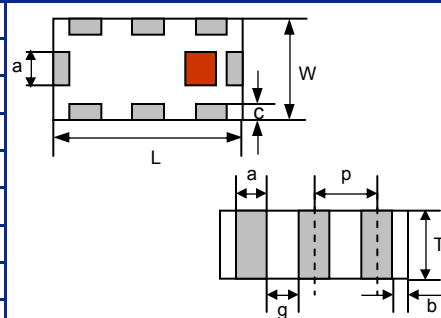
Terminal Configuration

| No. | Function |
|-----|--------------|
| 1 | Band 2 IN |
| 2 | GND |
| 3 | Band 2 OUT |
| 4 | Termination |
| 5 | Band 1 OUT |
| 6 | GND |
| 7 | Band 1 IN |
| 8 | Coupling OUT |



Mechanical Dimensions

| | In | mm |
|----------|--------------------|-----------------|
| L | 0.063 ± 0.004 | 1.60 ± 0.10 |
| W | 0.031 ± 0.004 | 0.80 ± 0.10 |
| T | 0.016 ± 0.004 | 0.40 ± 0.10 |
| a | 0.008 ± 0.004 | 0.20 ± 0.10 |
| b | 0.008 +.004/-0.006 | 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 |



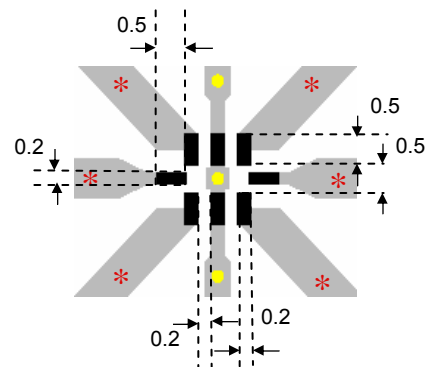
Mounting Considerations

Mount these devices with brown mark facing up.

Line width should provide 50 Ω impedance matching characteristics.

Units: mm

- Solder Resist
- Land
- Through-hole (φ0.2)



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

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www.johansontechology.com

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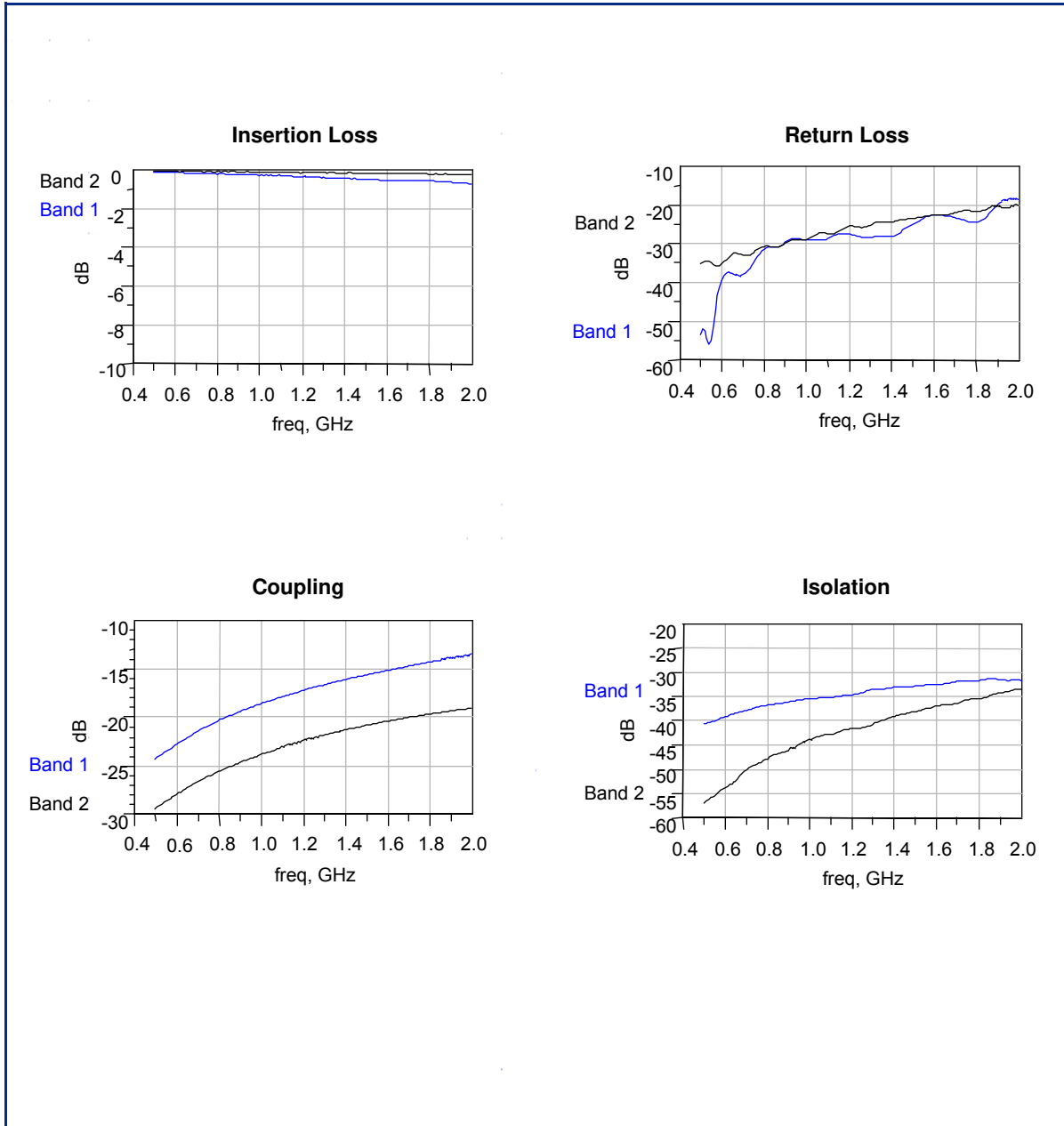
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Typical Electrical Characteristics (T=25°C)



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