

Excellent Integrated System Limited

Stocking Distributor

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[Johanson Technology Inc.](#)
[0869LD14D1810T](#)

For any questions, you can email us directly:
sales@integrated-circuit.com

"High Frequency Ceramic Solutions"

869/1810 MHz Dual Low Pass Filter **P/N 0869LD14D1810**
 Detail Specification: 6/10/09 Page 1 of 3

General Specifications

| | | |
|-------------------------|---------------|-------------|
| Part Number | 0869LD14D1810 | |
| Frequency (MHz) | 824 - 915 | 1710 - 1910 |
| Insertion Loss | 0.6 dB max. | 0.6 dB max. |
| Return Loss | 14 dB min. | 14 dB min. |
| Isolation IN-IN-OUT-OUT | 27 dB min. | 30 dB min. |
| Isolation IN-OUT | 30 dB min. | 30 dB min. |

| | |
|-----------------------|----------------------------------|
| Impedance | 50 Ω |
| Reel Quantity | 4000 |
| Input Power | 3.2 Watts max. |
| Operating Temperature | -40 to +85°C |
| Storage Temperature | +5 ~ +35°C, Humidity 45-75%RH |
| Storage Period | 18 months max.* |

| | | |
|--------------------|-------------------------|----------------------|
| Attenuation (min.) | 25 dB @ 1648-1830 MHz | 25 dB @ 3420-3820MHz |
| Attenuation (min.) | 25 dB @ 2472 - 2745 MHz | 25 dB @ 5130-5730MHz |

* - 18 mo.shelf life in bag ; 1 week shelf life out of bag ;
 Vacuum reseal unused reel
 - more info : <http://johansontechnology.com/silverleads>

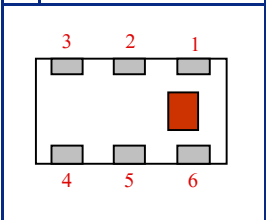
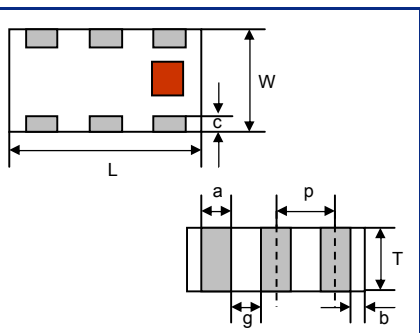
| | | | | |
|---------------|-------------------|------------|---------------|------------------------------|
| P/N Suffix | Packaging Style | Bulk | Suffix = S | Eg. 0869LD14D1810S |
| | | T & R | Suffix = E | Eg. 0869LD14D1810E |
| | Termination Style | 100% Tin | Suffix = None | Eg. 0869LD14D1810(E or S) |
| | | Tin / Lead | Suffix = /Pb | Eg. 0869LD14D1810(E or S)/Pb |

Terminal Configuration

| No. | Function |
|-----|---------------|
| 1 | High Band I/O |
| 2 | GND |
| 3 | Low Band I/O |
| 4 | Low Band I/O |
| 5 | GND |
| 6 | High Band I/O |

Mechanical Dimensions

| | In | mm |
|---|--------------------|-----------------|
| L | 0.063 ± 0.004 | 1.60 ± 0.10 |
| W | 0.031 ± 0.004 | 0.80 ± 0.10 |
| T | 0.18 max | 0.45 max |
| 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 |

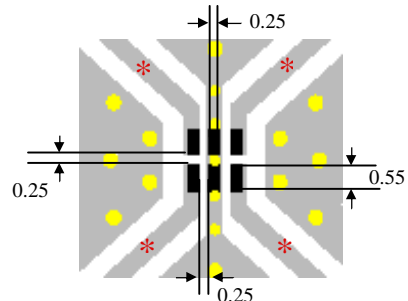


Note: input and output interchangeable

Mounting Considerations

Mount these devices with brown mark facing up.
 * Line width should be designed to provide 50 Ω impedance matching characteristics, depending on PCB material and thickness.

- Solder Resist
- Land
- Through-hole (φ 0.2 / 0.3)



Units: mm

Johanson Technology, Inc. reserves the right to make design changes without notice.
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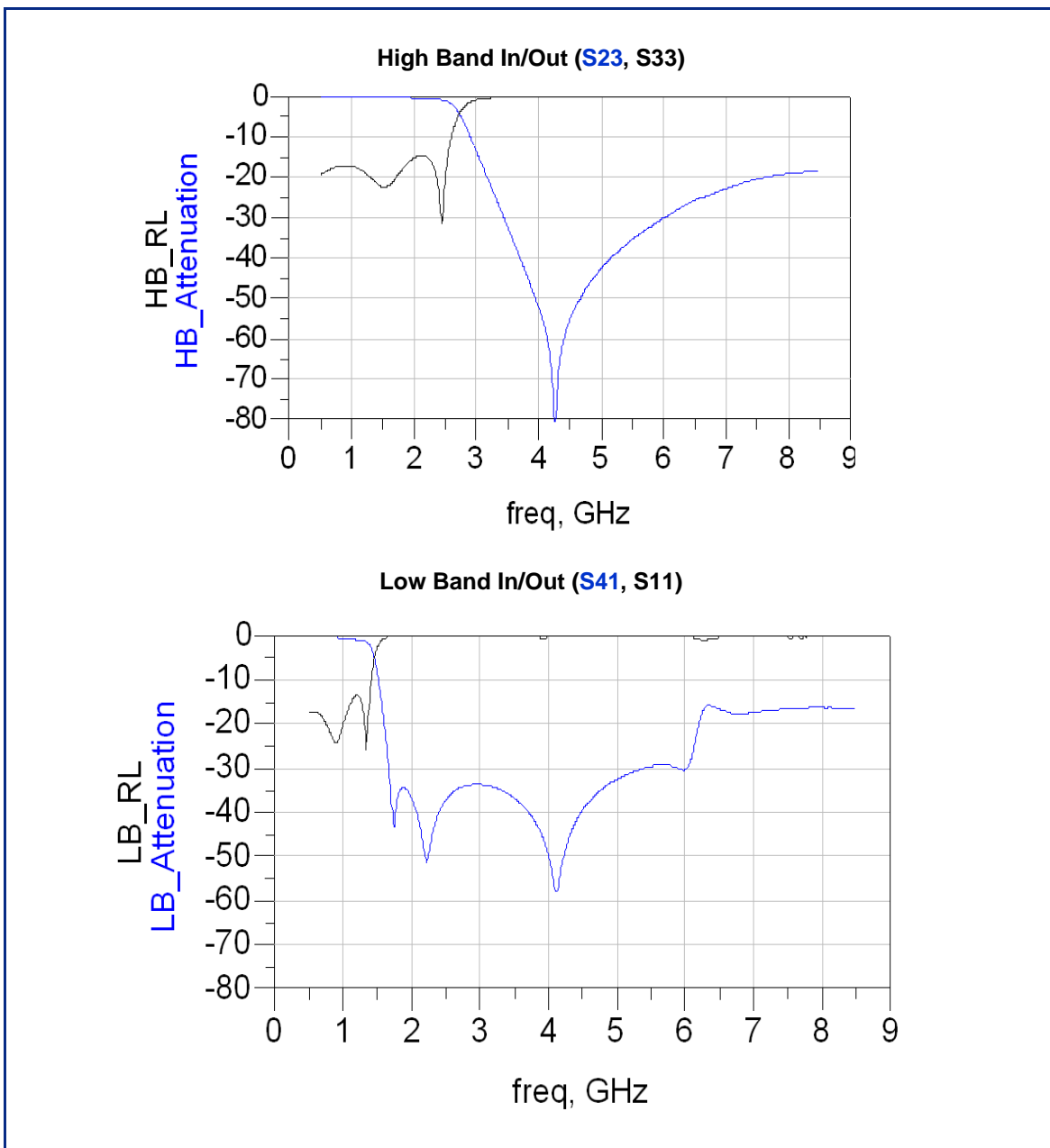
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P/N 0869LD14D1810

Detail Specification: 6/10/09

Page 2 of 3

Typical Electrical Performance (T=25°C)

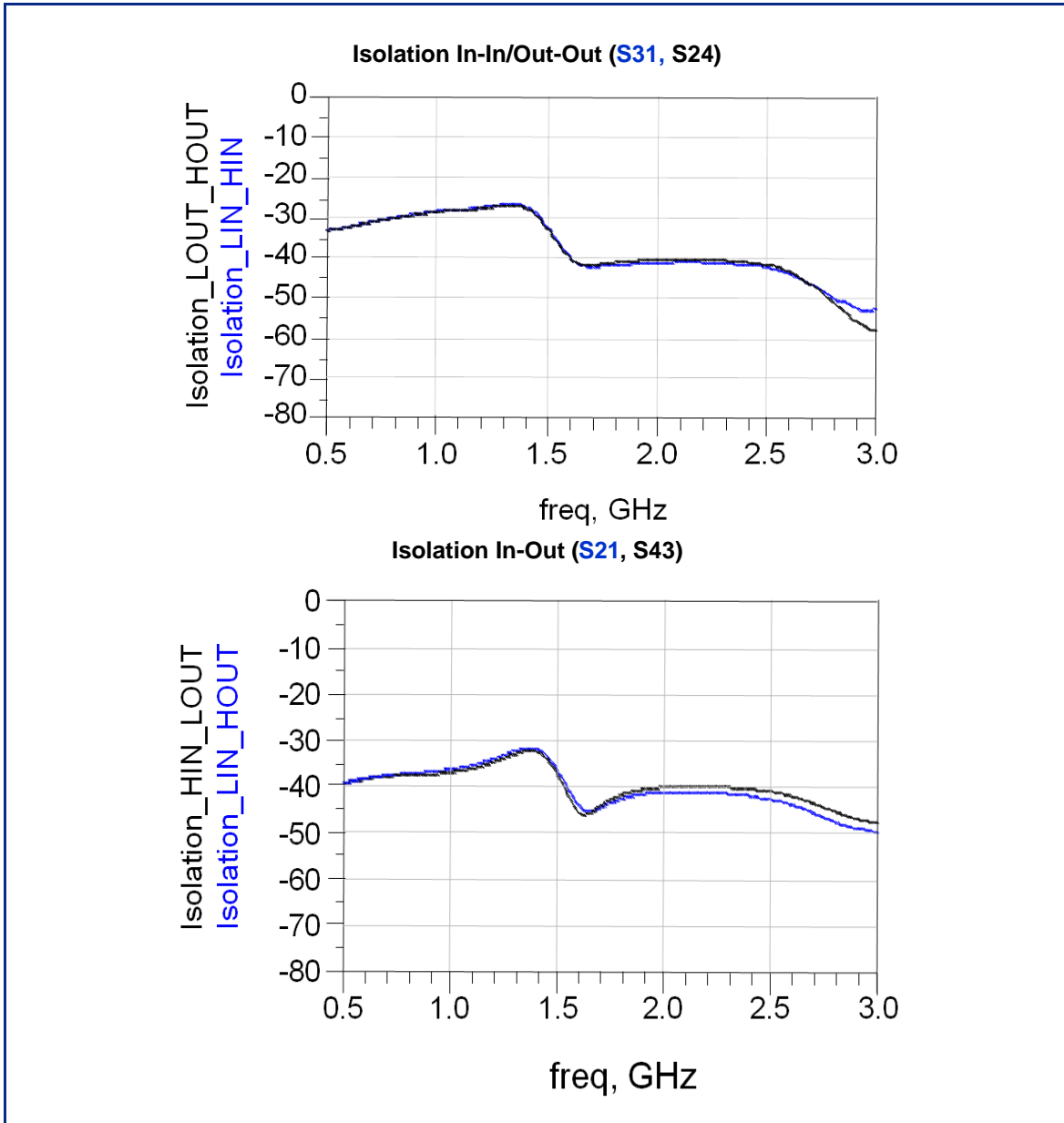


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 Detail Specification: 6/10/09 Page 3 of 3

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