

# "High Frequency Ceramic Solutions"

## 869/1810 MHz Dual Low Pass Filter

P/N 0869LD14D1810

Detail Specification: 6/10/09

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### General Specifications

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

<b>Impedance</b>	50 $\Omega$
<b>Reel Quantity</b>	4000
<b>Input Power</b>	3.2 Watts max.
<b>Operating Temperature</b>	-40 to +85°C
<b>Storage Temperature</b>	+5 ~ +35°C, Humidity 45-75%RH
<b>Storage Period</b>	18 months max.*

<b>Attenuation (min.)</b>	25 dB @ 1648-1830 MHz	25 dB @ 3420-3820MHz
<b>Attenuation (min.)</b>	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>

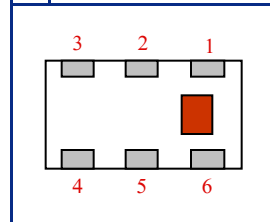
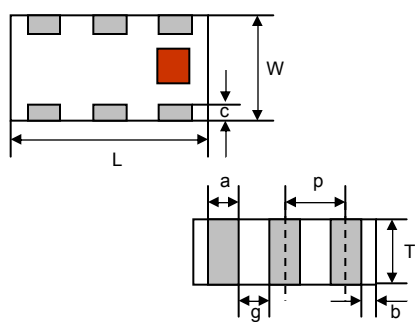
<b>P/N Suffix</b>	<b>Packaging Style</b>	Bulk	Suffix = S	Eg. 0869LD14D1810S
		T & R	Suffix = E	Eg. 0869LD14D1810E
<b>Termination Style</b>		100% Tin	Suffix = None	Eg. 0869LD14D1810(E or S)
		Tin / Lead	Suffix = /Pb	Eg. 0869LD14D1810(E or S)/Pb

### 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
<b>L</b>	0.063 $\pm$ 0.004	1.60 $\pm$ 0.10
<b>W</b>	0.031 $\pm$ 0.004	0.80 $\pm$ 0.10
<b>T</b>	0.18 max	0.45 max
<b>a</b>	0.008 $\pm$ 0.004	0.20 $\pm$ 0.10
<b>b</b>	0.008 +.004/-0.006	0.20 +0.1/-0.15
<b>c</b>	0.006 $\pm$ 0.004	0.15 $\pm$ 0.10
<b>g</b>	0.012 $\pm$ 0.004	0.30 $\pm$ 0.10
<b>p</b>	0.020 $\pm$ 0.002	0.50 $\pm$ 0.05






Note: input and output interchangeable

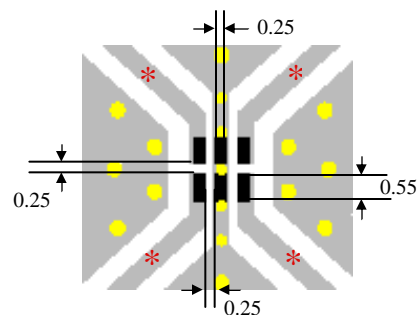
### Mounting Considerations

Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics, depending on PCB material and thickness.

-  Solder Resist
-  Land
-  Through-hole ( $\phi$  0.2 / 0.3)

Units: mm



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[www.johansontechnology.com](http://www.johansontechnology.com)

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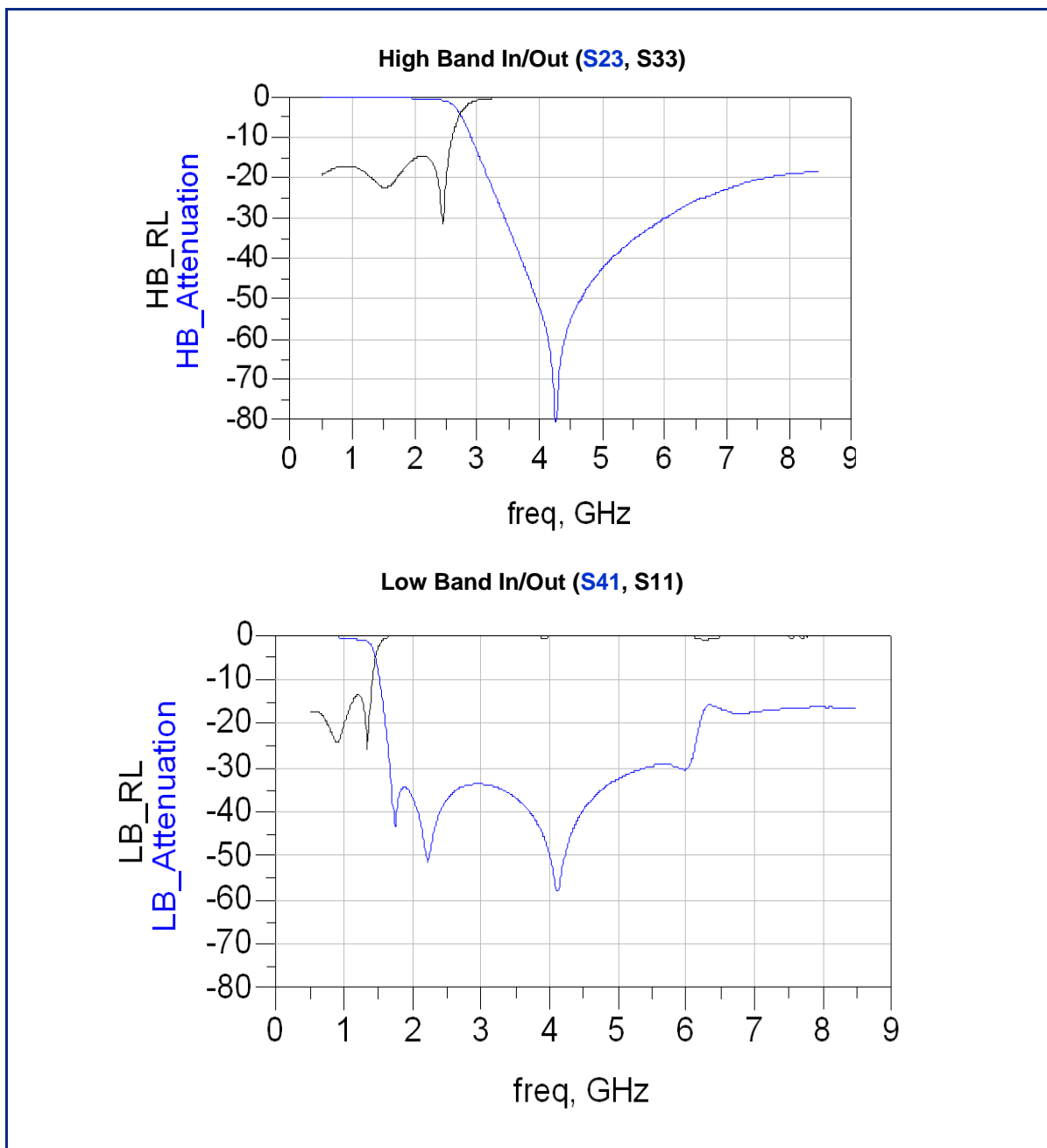
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## Typical Electrical Performance (T=25°C)



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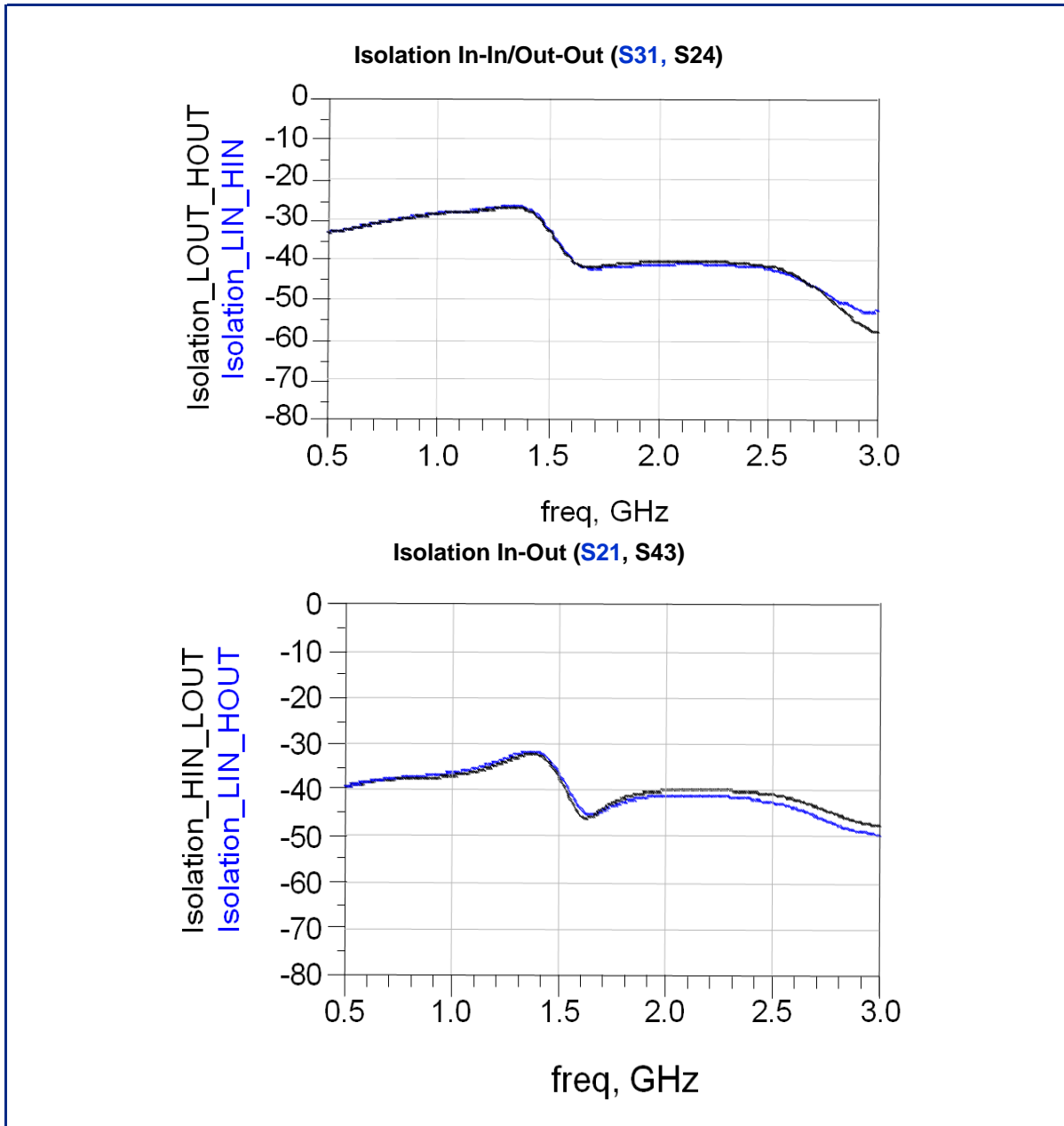
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