

# "High Frequency Ceramic Solutions"

Preliminary

## 869/1810 MHz Dual Low Pass Filter

P/N 0869LD14C1810

Detail Specification: 10/27/10

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### General Specifications

|                    |                 |                 |
|--------------------|-----------------|-----------------|
| Part Number        | 0869LD14C1810   |                 |
| Frequency (MHz)    | 824 - 915       | 1710 - 1910     |
| Insertion Loss     | 0.6 dB max.     | 0.6 dB max.     |
| Return Loss        | 9.5 dB min.     | 9.5 dB min.     |
| Attenuation (min.) | 25 dB @ 2 x f o | 22 dB @ 2 x f o |
| Attenuation (min.) | 18 dB @ 3 x f o | 20 dB @ 3 x f o |

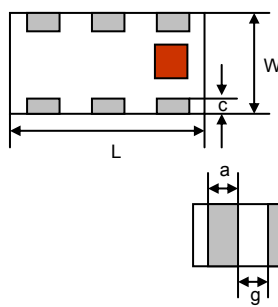
|                       |                                  |
|-----------------------|----------------------------------|
| Impedance             | 50 $\Omega$                      |
| Reel Quantity         | 4000                             |
| Input Power           | 0.5 Watts max.                   |
| Operating Temperature | -40 to +85°C                     |
| Storage Temperature   | +5 ~ +35°C,<br>Humidity 45-75%RH |
| Storage Period        | 12 months max.*                  |

|               |                   |            |               |                              |
|---------------|-------------------|------------|---------------|------------------------------|
| P/N<br>Suffix | Packaging Style   | Bulk       | Suffix = S    | Eg.0869LD14C1810S            |
|               |                   | T & R      | Suffix = T    | Eg. 0869LD14C1810T           |
|               | Termination Style | 100% Tin   | Suffix = None | Eg. 0869LD14C1810(S or T)    |
|               |                   | Tin / Lead | Suffix = /Pb  | Eg. 0869LD14C1810(S or T)/Pb |

\* - 1 yr shelf life in bag ;  
1 week shelf life out of bag ;  
Vacuum reseal unused reel

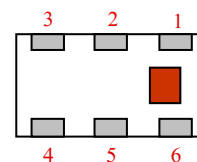
### Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.063 $\pm$ 0.004 | 1.60 $\pm$ 0.10 |
| W | 0.031 $\pm$ 0.004 | 0.80 $\pm$ 0.10 |
| T | 0.014 $\pm$ 0.002 | 0.35 $\pm$ 0.05 |
| a | 0.008 $\pm$ 0.004 | 0.20 $\pm$ 0.10 |
| b | 0.008 $\pm$ 0.004 | 0.20 $\pm$ 0.10 |
| c | 0.006 $\pm$ 0.004 | 0.15 $\pm$ 0.10 |
| g | 0.012 $\pm$ 0.004 | 0.30 $\pm$ 0.10 |
| p | 0.020 $\pm$ 0.002 | 0.50 $\pm$ 0.05 |



### Terminal Configuration

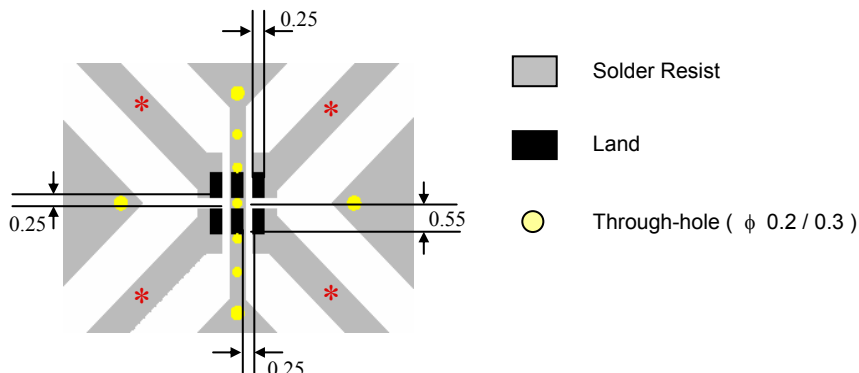
| No. | Function |
|-----|----------|
| 1   | HB_IN    |
| 2   | GND      |
| 3   | LB_IN    |
| 4   | LB_OUT   |
| 5   | GND      |
| 6   | HB_OUT   |



Mount these devices with brown mark facing up.

\* Line width should be designed to provide 50  $\Omega$  impedance matching characteristics.

Units: mm



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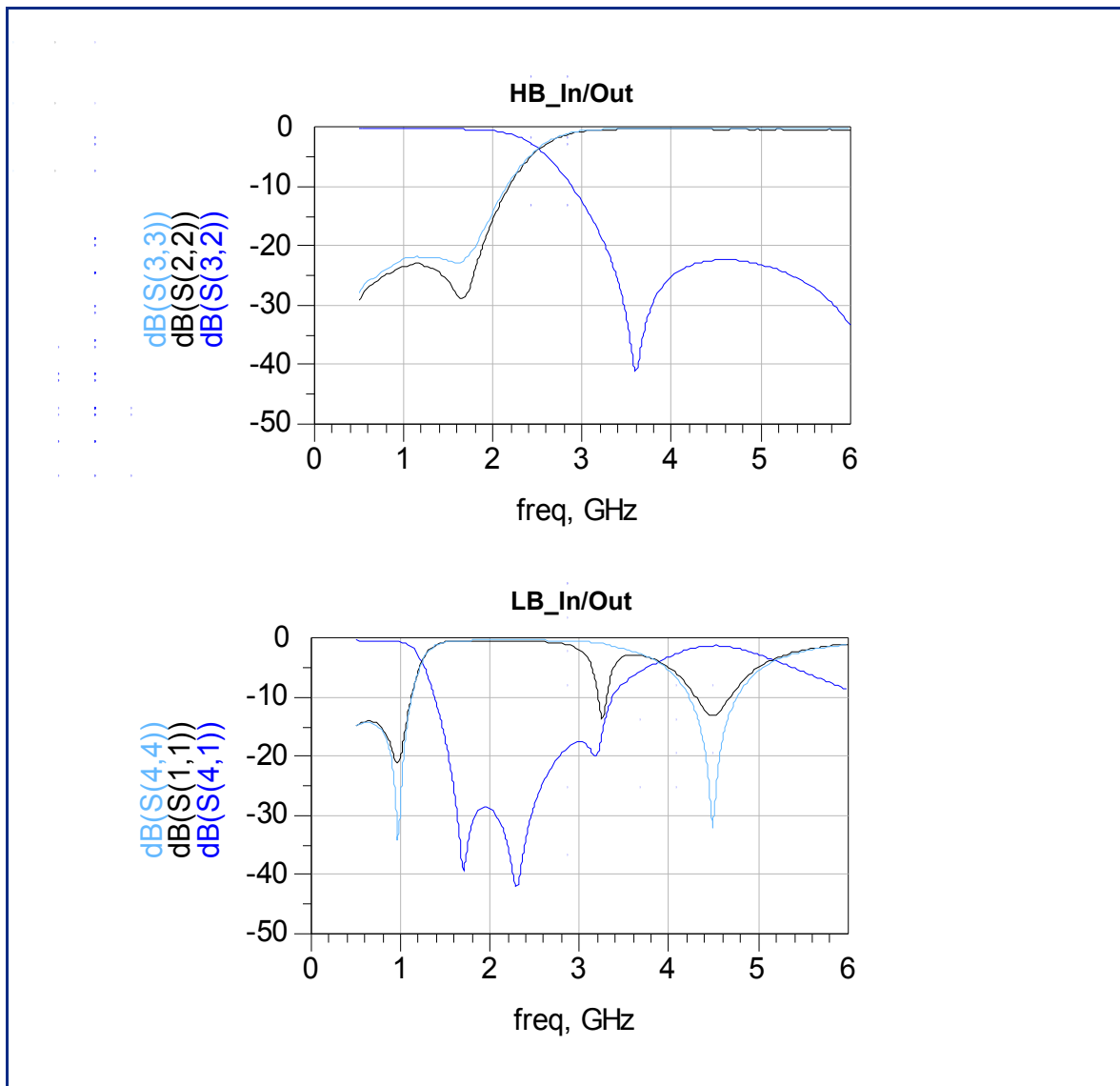
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Typical Electrical Performance (T=25°C)



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