

# "High Frequency Ceramic Solutions"

## 1.9 GHz Band Pass Filter Recommended Application DECT.

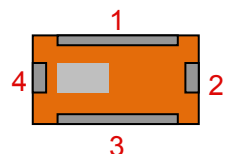
P/N 1905BP18A0050

Detail Specification: 2/3/2014

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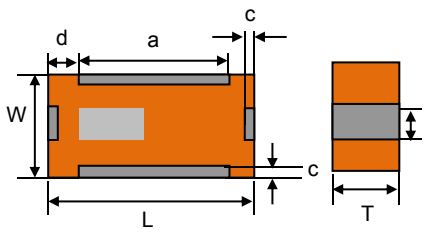
| General Specifications |                 |       |                                                                                                                                                                                                                                                         |                                             |
|------------------------|-----------------|-------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|
| Frequency (MHz)        | 1880 ~ 1930     |       | Input Power                                                                                                                                                                                                                                             | 500 mW max.(CW)                             |
| Insertion Loss         | 1.65dB max.     |       | Impedance                                                                                                                                                                                                                                               | 50 Ω                                        |
|                        |                 |       | Operating Temperature                                                                                                                                                                                                                                   | -40 to +85°C                                |
| Return Loss            | 9.5 dB min.     |       | Recommended Storage Conditions                                                                                                                                                                                                                          | +5 ~ +35 °C, Humidity 45~75%RH, 18 mos. Max |
| Attenuation (min.)     | 100 ~ 1500 MHz  | 20 dB |                                                                                                                                                                                                                                                         |                                             |
| Attenuation (min.)     | 2300 ~ 6000 MHz | 15 dB | Reel Quantity                                                                                                                                                                                                                                           | 3000                                        |
| Attenuation (min.)     | 1250 ~ 1290 MHz | 25 dB | Solder Paste                                                                                                                                                                                                                                            | SAC 305 Recommended                         |
| Attenuation (min.)     | 2400 ~ 2500 MHz | 30 dB | To protect the silver leads (Pins 1, 2, 3, and 4), please re-use vacuum sealed packaging provided with shipment. More info at <a href="http://www.johansontechnology.com/silverleads">http://www.johansontechnology.com/silverleads</a> or go to page 2 |                                             |
| Attenuation (min.)     | 2500 ~ 2570 MHz | 25 dB |                                                                                                                                                                                                                                                         |                                             |
| Attenuation (min.)     | 3760 ~ 3860 MHz | 30 dB |                                                                                                                                                                                                                                                         |                                             |
| Attenuation (min.)     | 5640 ~ 5790 MHz | 30 dB |                                                                                                                                                                                                                                                         |                                             |
|                        |                 |       | Terminal Configuration                                                                                                                                                                                                                                  |                                             |

| Terminal Configuration |          |
|------------------------|----------|
| No.                    | Function |
| 1                      | GND      |
| 2                      | OUT      |
| 3                      | GND      |
| 4                      | IN       |



## Mechanical Dimensions

|   | In                | mm              |
|---|-------------------|-----------------|
| L | 0.126 $\pm$ 0.006 | 3.20 $\pm$ 0.15 |
| W | 0.063 $\pm$ 0.006 | 1.60 $\pm$ 0.15 |
| T | 0.051 $\pm$ 0.004 | 1.30 $\pm$ 0.10 |
| a | 0.075 $\pm$ 0.006 | 1.90 $\pm$ 0.15 |
| b | 0.020 $\pm$ 0.006 | 0.50 $\pm$ 0.15 |
| c | 0.012 $\pm$ 0.008 | 0.30 $\pm$ 0.20 |
| g | 0.026 $\pm$ 0.008 | 0.65 $\pm$ 0.20 |

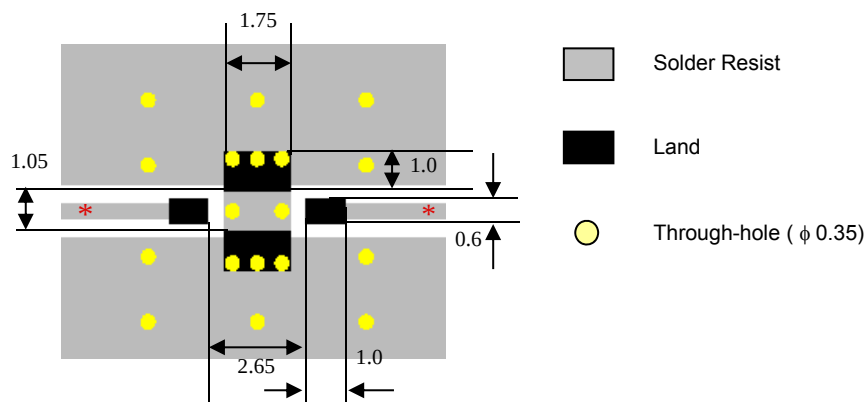


## Mounting Considerations

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

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ver. 1.0

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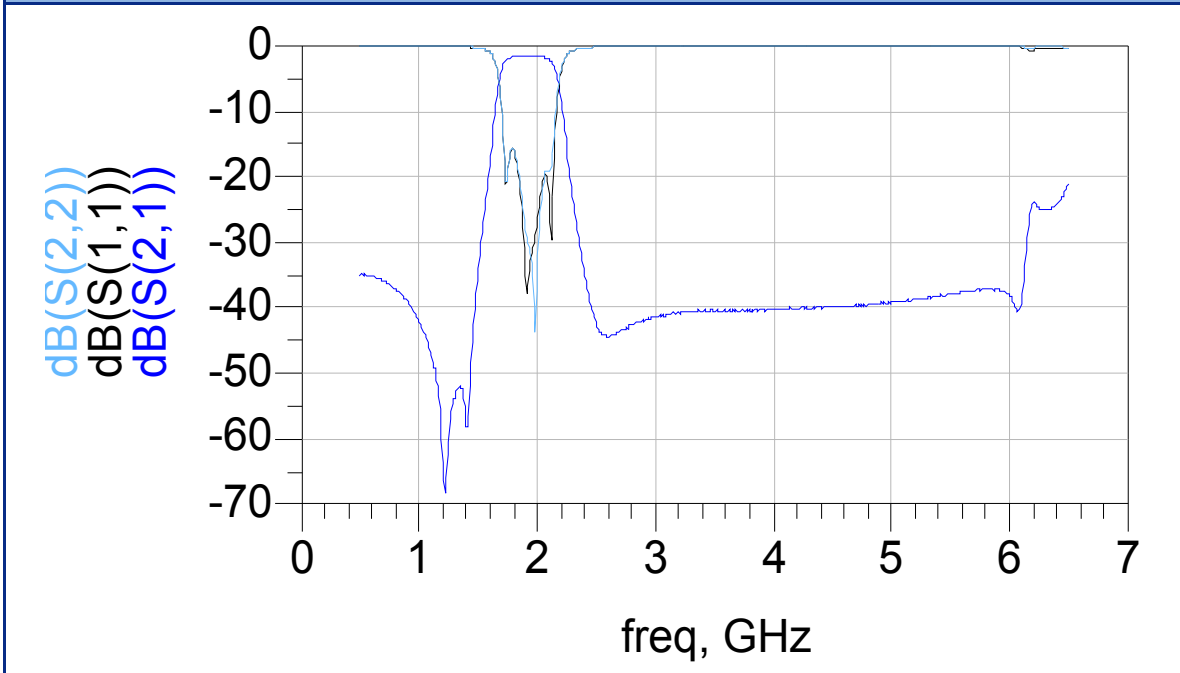
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## Typical Electrical Performance (T=25°C)



## Packaging information

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

<http://www.johansontechnology.com/silverleads>

## Soldering Information

[www.johansontechnology.com/ipcsoldering-profile](http://www.johansontechnology.com/ipcsoldering-profile)

## RoHS Compliance

[www.johansontechnology.com/technical-notes/rohs-compliance.html](http://www.johansontechnology.com/technical-notes/rohs-compliance.html)

## MSL Info

[www.johansontechnology.com/technical-notes/msl-rating.html](http://www.johansontechnology.com/technical-notes/msl-rating.html)

## To see other BPFs or Download Measured S-parameters for Evaluation and Simulation:

<http://www.johansontechnology.com/bpf>

## For layout review or any other technical questions, please contact our Applications Team at:

[www.johansontechnology.com/component/techquestion?Itemid=407](http://www.johansontechnology.com/component/techquestion?Itemid=407)

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