

High Frequency Ceramic Solutions

1810 MHz Band Pass Filter

P/N 1810BP07B200

Detail Specification: 4/4/2019

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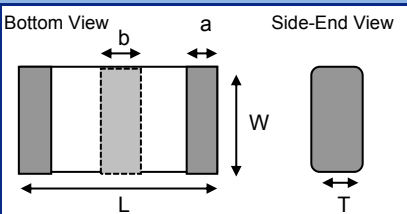
General Specifications

| | | | |
|------------------------------|-------------------------|--|---|
| Part Number | 1810BP07B200 |  | |
| Frequency (MHz) | 1710 - 1910 | | |
| Insertion Loss (dB) | 2.0 dB max. | | |
| Return Loss | 9.5 dB min. | | |
| Attenuation (min.) | 20 dB @ 855 - 955 MHz | | |
| Attenuation (min.) | 12 dB @ 2565 - 2865 MHz | | |
| Impedance | 50 Ω | | |
| Input Power | 500 mW max. (CW) | | |
| Operating Temperature | -40 to +85°C | | Recommended Storage Conditions for unused T&R Product* |
| Storage Temperature | -40 to +85°C | | |
| Reel Quantity | 10,000 | Solder Paste | |
| | | SAC 305 type is recommended. | |

*18 months in vacuum sealed bag and 1 week after opened. Please keep unused parts in vacuum sealed bags. For more info go to <https://www.johansontechnology.com/silverleads-profile>.

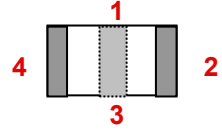
| | | | | |
|-------------------|-------------------------|---------------------|------------|-------------------|
| P/N Suffix | Packing Style | Bulk | Suffix = S | eg. 1810BP07B200S |
| | | T & R | Suffix = T | eg. 1810BP07B200T |
| | Evaluation Board | 1810BP07B200-EB1SMA | | |

Mechanical Specifications

| | In | mm | Bottom View | Side-End View |
|---|---------------|-------------|--|---------------|
| L | 0.039 ± 0.002 | 1.00 ± 0.05 |  | |
| W | 0.020 ± 0.002 | 0.50 ± 0.05 | | |
| T | 0.015 ± 0.002 | 0.38 ± 0.05 | | |
| a | 0.006 ± 0.004 | 0.15 ± 0.10 | | |
| b | 0.010 ± 0.004 | 0.25 ± 0.10 | | |

Terminal Configuration

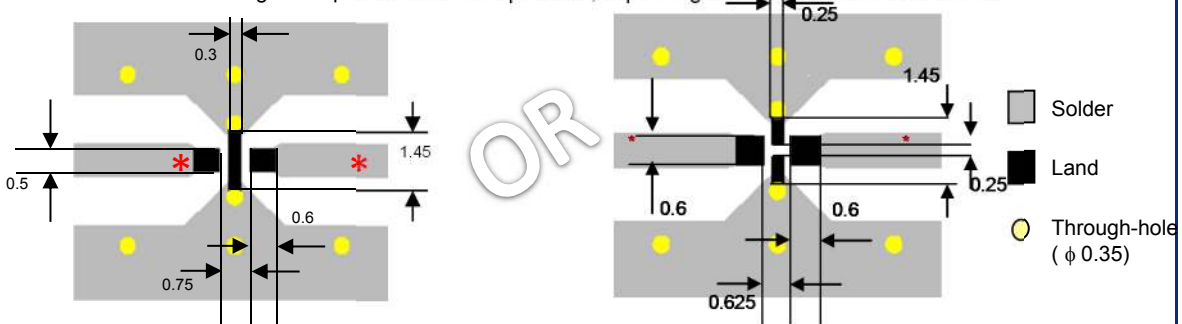
| | | | |
|---|-----|---|-----|
| 1 | GND | 3 | GND |
| 2 | OUT | 4 | IN |



Mounting Considerations

Mount these devices with brown mark facing up.

*Line width should be designed to provide 50 ohm impedance, depending on PCB material and thickness



Want the layout file of the above? Send us a message at: <https://www.johansontechnology.com/ask-a-question>

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Ver. 1.1

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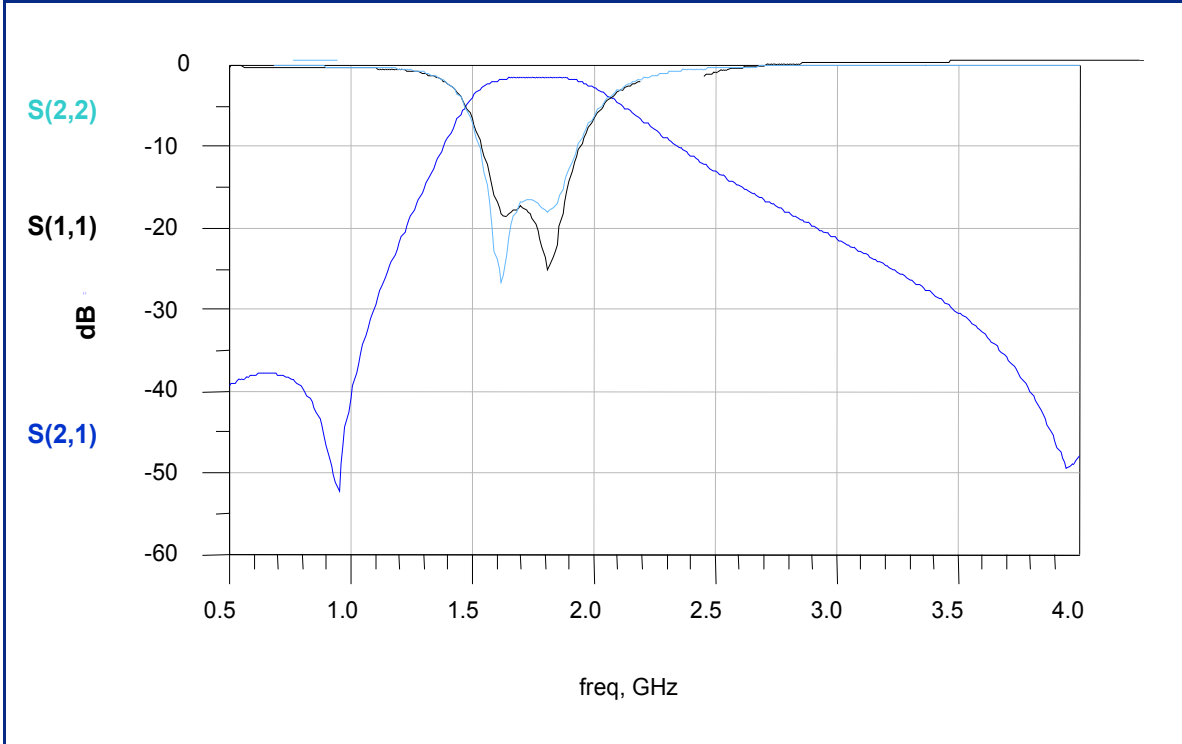
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Electrical Characteristics (T=25°C)



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Packaging information

<https://www.johansontechnology.com/tape-reel-packaging>

Soldering Information

<https://www.johansontechnology.com/ipcsoldering-profile>

RoHS Compliance

<https://www.johansontechnology.com/rohs-compliance>

MSL Info

<https://www.johansontechnology.com/msl-rating>

To Download Measured S-parameters for Evaluation and Simulation:

<https://www.johansontechnology.com/band-pass-filters>

For layout review contact our Applications Team at:

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