

# "High Frequency Ceramic Solutions"

**LNB Diplexer, 1175/1925 MHz, EIA 1210, SMD**

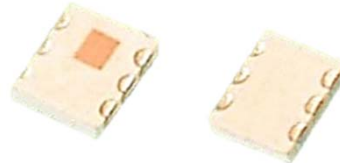
**P/N 1175DP41B1925**

Detail Specification: 2/11/2014

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## General Specifications

|                           |  |  |                             |                             |
|---------------------------|--|--|-----------------------------|-----------------------------|
| Part Number               | 1175DP41B1925  |  |                             |                             |
| Center Freq. (MHz)        | 1175   | 1925   |                             |                             |
| Passband (MHz)            | 900-1450   | 1650-2200  |                             |                             |
| Insertion Loss (dB)       | 1.62 typ/2.2 max. (25°C)<br>2.5 max. (-40to+ 25°C)                               | 1.65 typ/2.2 max. (25°C)<br>2.5 max. (-40to+ 25°C)                             |                             |                             |
| Return Loss               | -9.5 dB (min)  | -9.5 dB (min)  |                             |                             |
| Attenuation (db)          | 33 typ (25 min.) @<br>1650 to 2200MHz  | 30 typ (24 min.) @<br>900 to 1450MHz   | Impedance                   | 50Ω (Terminals 1, 3, and 5) |
| Ripple (db)               | 1.33 typ. (1.6 max.)<br>@ 900 to 1450MHz<br>25MHz Ripple: 0.27 typ.<br>(0.40max) | 1.17 typ. (1.6 max.)<br>@ 1650-2200MHz<br>25MHz Ripple: 0.24 typ.<br>(0.40max) | Power Capacity              | 500mW max. (CW)             |
| Recommended Storage Cond. | +5 to +35 °C, Humidity 45 to 75%RH   |  | Storage Period              | 18 months max.              |
|                           |  |  | Reel Quantity               | 2,000                       |
|                           |  |  | Operating Temperature Range | -40°C to +85°C              |

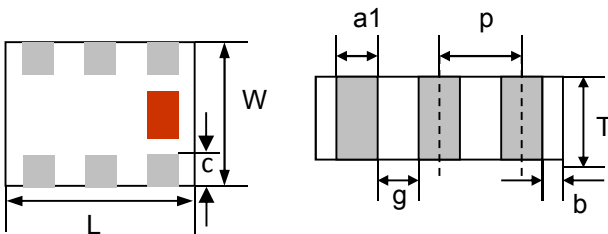


## Part Number Explanation

|            |                   |                     |               |                           |
|------------|-------------------|---------------------|---------------|---------------------------|
| P/N Suffix | Packing Style     | Bulk                | Suffix = S    | eg. 1175DP41A1925S        |
|            |                   | T & R (2000pcs)     | Suffix = E    | eg. 1175DP41A1925E        |
|            | Termination style | 100% Tin            | Suffix = None | eg. 1175DP41A1925(E or S) |
|            | Evaluation Board  | 1175DP41B1925-EBSMA |               |                           |

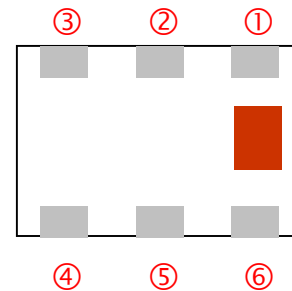
## Mechanical Dimensions

|   | In                 | mm               |
|---|--------------------|------------------|
| L | 0.126 ± 0.008      | 3.20 ± 0.20      |
| W | 0.098 ± 0.008      | 2.50 ± 0.20      |
| T | 0.039 max.         | 1.00 max.        |
| a | 0.022 ± 0.006      | 0.55 ± 0.15      |
| b | 0.004 min.         | 0.1 min.         |
| c | 0.016 ± 0.004/0.00 | 0.40 ± 0.1 /-0.2 |
| g | 0.018 ± 0.006      | 0.45 ± 0.15      |
| p | 0.039 ± 0.004      | 1.00 ± 0.10      |



## Terminal Configuration

| No. | Function                |
|-----|-------------------------|
| 1   | (LPF) Lower Freq. Port  |
| 2   | GND                     |
| 3   | (HPF) Higher Freq. Port |
| 4   | GND                     |
| 5   | Common Port             |
| 6   | GND                     |



Ver. 1.2

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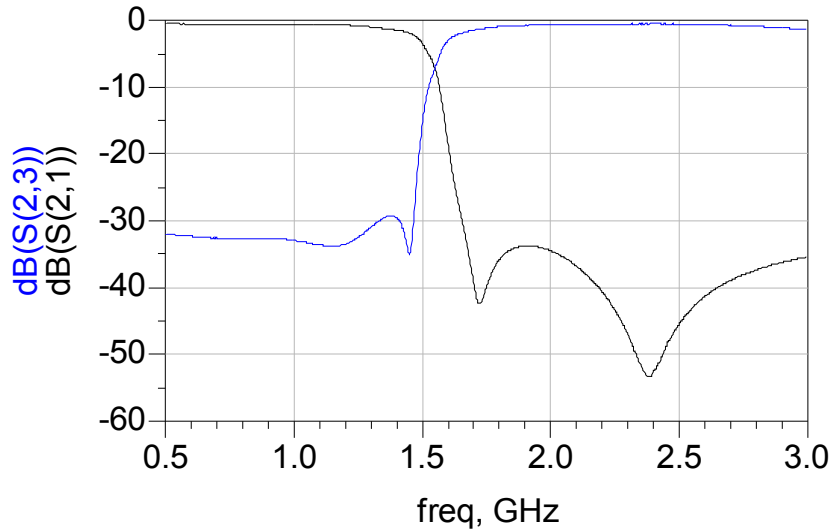
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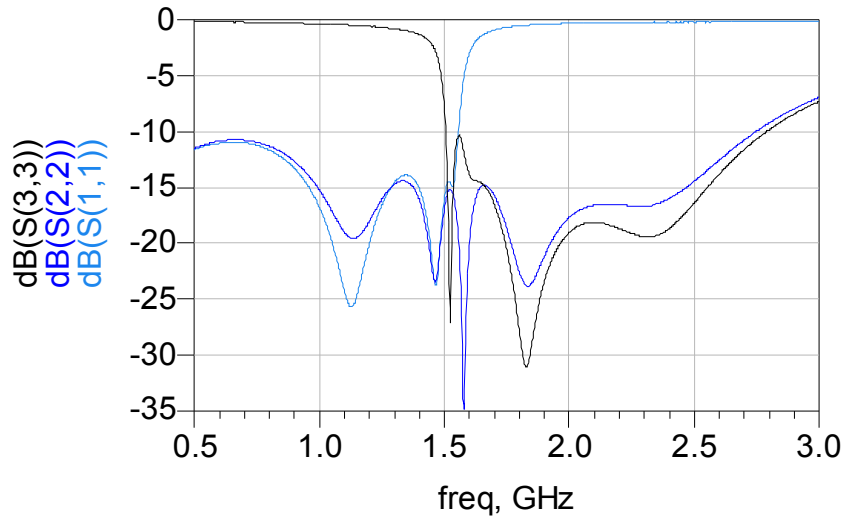
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## Typical Electrical Performance (T=25°C)

### Attenuation



### Return Loss



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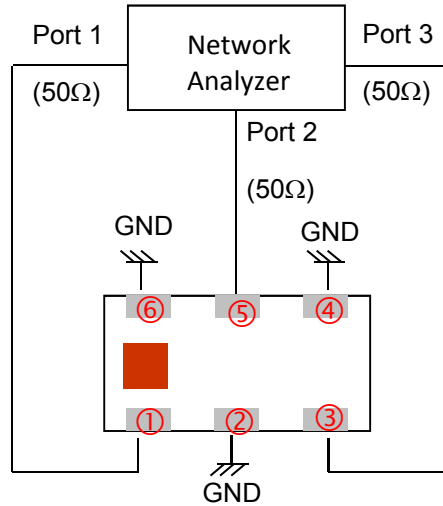
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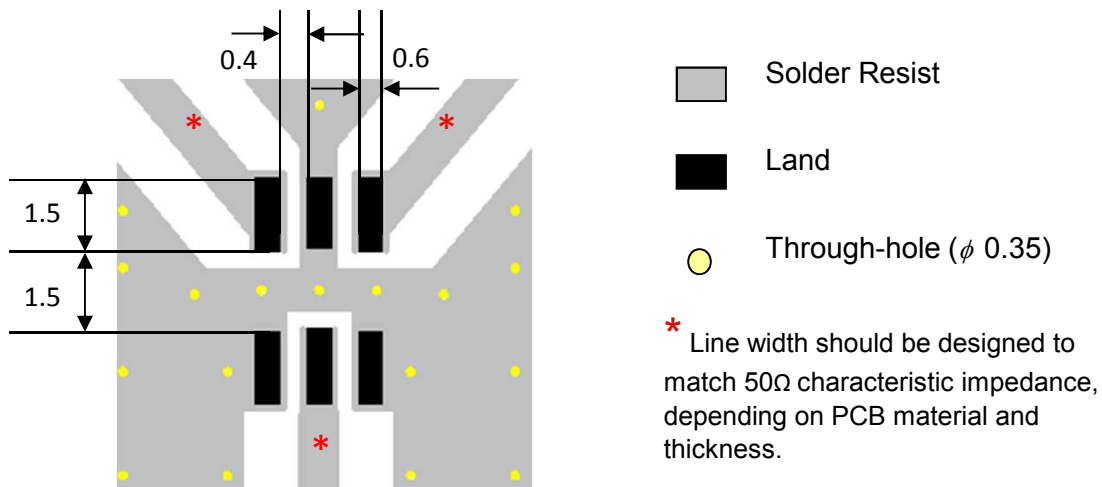
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## Measuring Diagram



## Mounting Considerations



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## RoHS Compliance

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

## Packaging information

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

## Soldering Information

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

## Layout Files, s-parameters and any other technical questions

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

## MSL Info

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

## Recommended Storage Condition and Max Shelf Life

[www.johansontechnology.com/ipcstorage-shelflife](http://www.johansontechnology.com/ipcstorage-shelflife)

## Antenna layout and tuning techniques

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

## Antenna layout review, tuning, and characterization services

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

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### Офис по работе с юридическими лицами:

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