

# **MDBF1232B136L**

Dielectric Band Pass Filter For 1164-1300Mhz

**MECSINE** 兆讯

Dielectric Band Pass Filter

For 1164-1300MHz

# MDBF1232B136L

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9.6 x 6.55mm

*All Use For RF & Microwave*

Shenzhen Megsine technology co., ltd [www.megsine.com](http://www.megsine.com) [sales@megsine.com](mailto:sales@megsine.com) may contain us for future information  
Feb. 03, 2024

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## FEATURES

- 1, Low Insertion Loss
- 2, Excellent temperature stability
- 3, Excellent high-power capacity up to 5W
- 4, RoHS compliance (Pb-Free)

## DESCRIPTION

The MDBF1232B136L offer low insertion loss in very small form factors, using ceramic material with high dielectric constant and superior Q factor. Low insertion loss combined with excellent power handling makes these filters well suited for transmitter and receiver signal chains. All components are 100% RF tested.

## MAXIMUM RATINGS

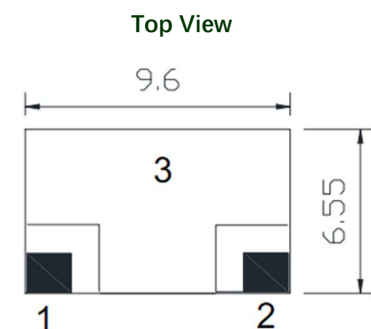
| Parameter                   | Ratings | Units |
|-----------------------------|---------|-------|
| RF Power (in BW)            | 37      | dBm   |
| Operating Temperature Range | -40~+85 | °C    |
| Storage Temperature Range   | -40~+85 | °C    |
| Pass Band Insertion Loss    | 0.85    | dB    |
| Pass Band VSWR              | 2       | : 1   |

## ELECTRICAL CHARACTERISTICS

| Frequency (MHz) | Insertion Loss (dB) | Return Loss (dB) |
|-----------------|---------------------|------------------|
| 1032            | -31.2               | -0.11            |
| 1132            | -5.33               | -2.85            |
| 1164            | -0.68               | -23.9            |
| 1232            | -0.47               | -30.2            |
| 1300            | -0.48               | -28.3            |
| 1332            | -1.31               | -8.71            |
| 1432            | -12.8               | -0.54            |
| 1525            | -27.5               | -0.32            |
| 1605            | -31.9               | -0.29            |

- Ta: +25±5°C

## SHAPES AND DIMENSIONS



Unit: mm

Side View



### Terminal Functions

|   |              |
|---|--------------|
| 1 | Input/Output |
| 2 | Output/Input |
| 3 | GND          |

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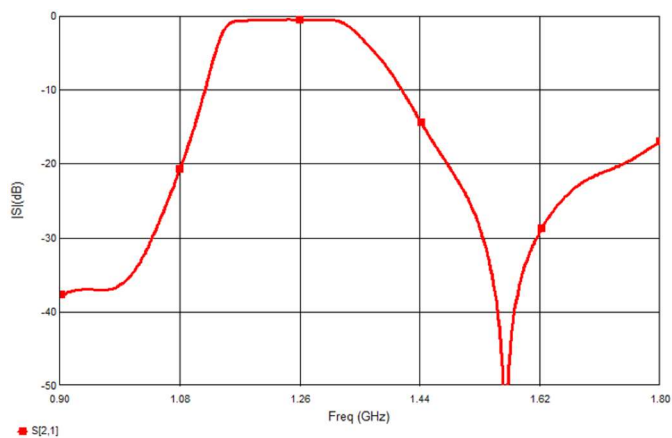
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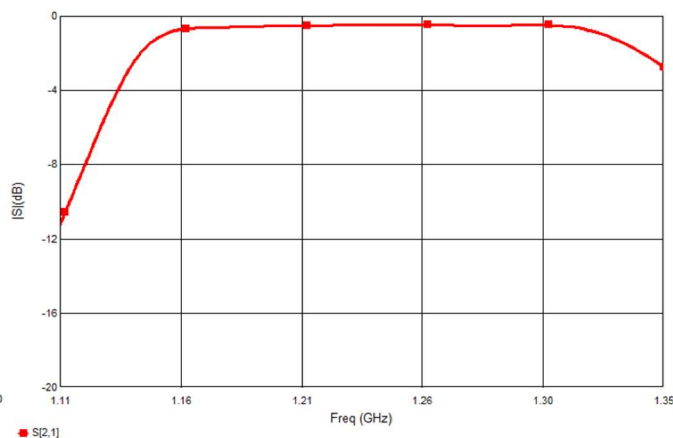
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## FREQUENCY CHARACTERISTICS

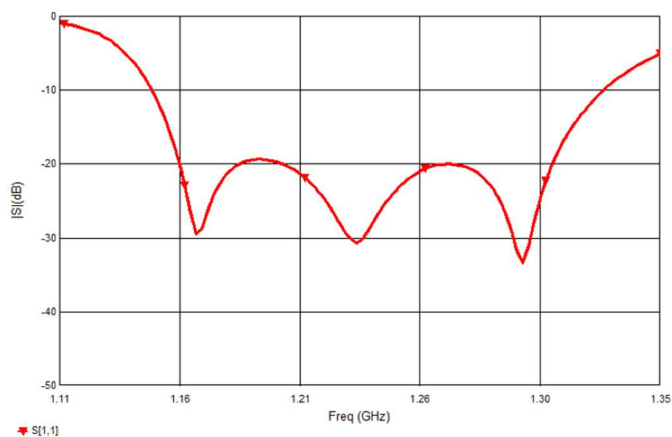
Wide Band Response



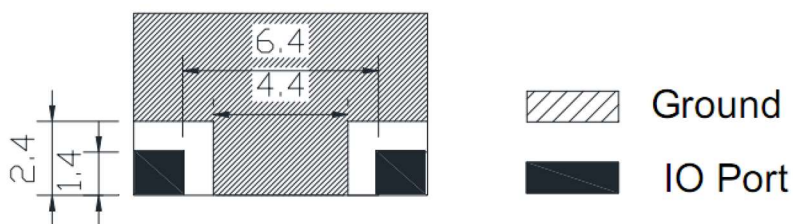
Pass Band Response



Output Return Loss



## RECOMMENDED LAND PATTERN AND EVALUATION BOARD



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| Revision | Description | Date      |
|----------|-------------|-----------|
| Rev0     | Preliminary | 2024/2/26 |
|          |             |           |
|          |             |           |

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