

MBF2492D33

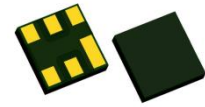
BAW Band Pass Filter For GNSS Antenna



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Applications

- 1, LTE Small & Base Station
- 2, DAS, PICO
- 3, GNSS Antenna



Features

- 1, Package size 3.0 x3.0 mm
- 2, Low insertion loss
- 3, High Rejection

Description

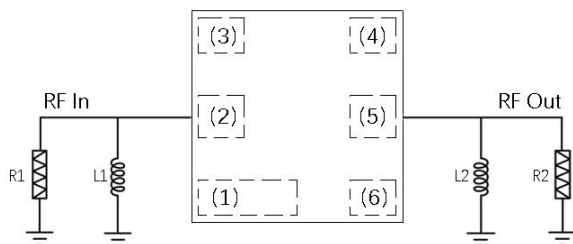
MBF2492D33 is a filter for GNSS antenna, which is designed with BAW technology. The product can provide low insertion loss and rejection. The typical insertion loss in the pass band is less than 3dB. The MBF2492D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(2484~ 2500 MHz)		2.8	3.8	dB
Ripple(2484~ 2500 MHz)			1.2	dB
VSWR(2484~ 2500 MHz)			2	
Absolute Attenuation				
10 ~ 1690 MHz	40	45		dB
1980 ~ 2470MH	38	45		dB
2510 ~ 2520 MH	42	50		dB
2520 ~ 2830 MH	50	55		dB
2900 ~ 5000 MH	35	40		dB
Operating Temp.	-40		125	°C
Input Power			33	dBm

All the above data are based on specified demo board and tested in 25° environment.

Pin Configuration



Pin No.	Label
1/3/4/6	GND
2	RF In
5	RF Out

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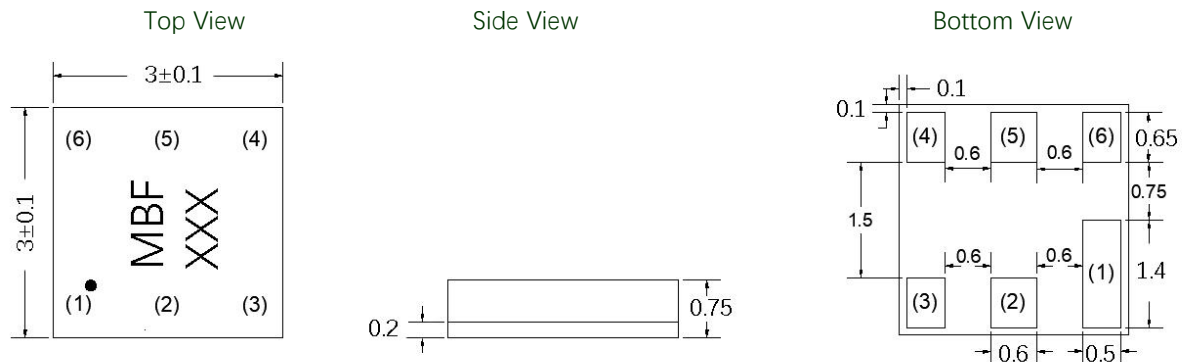
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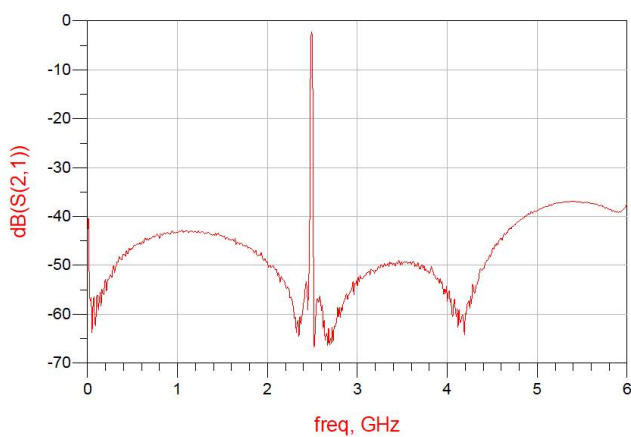
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Outline Drawing

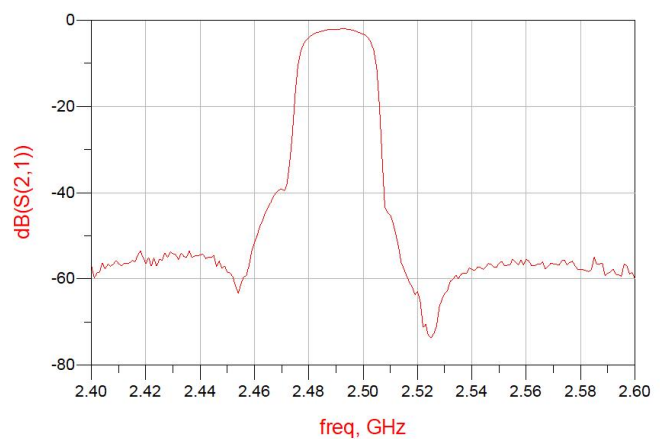


Typical Performance (Temp = +25 °C, 50 Ω system)

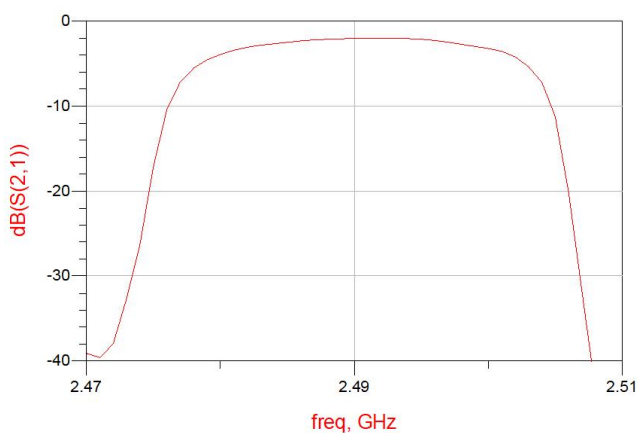
Wide band Response



Wide band Response



Pass band Response



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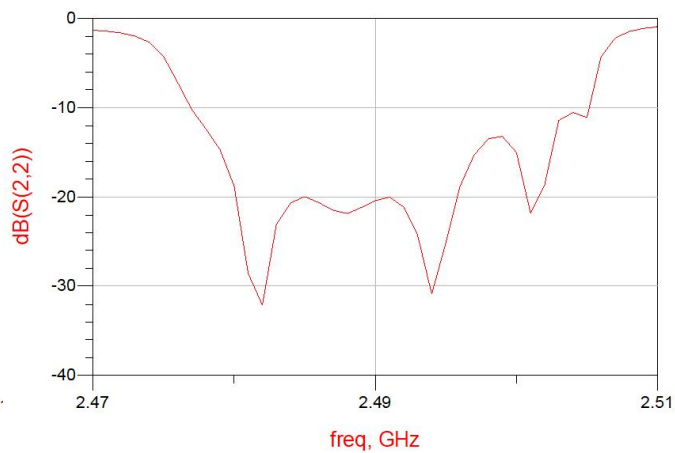


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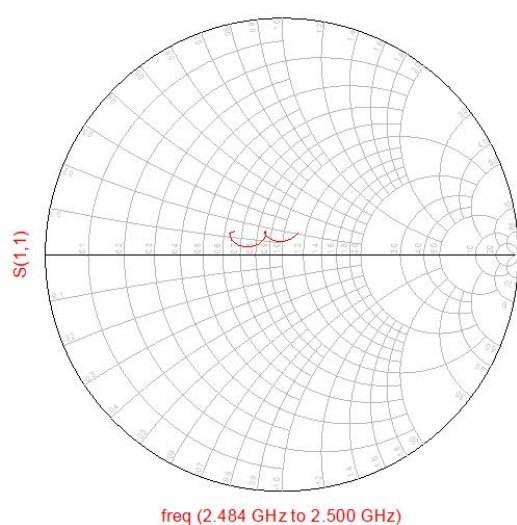
Input Return Loss



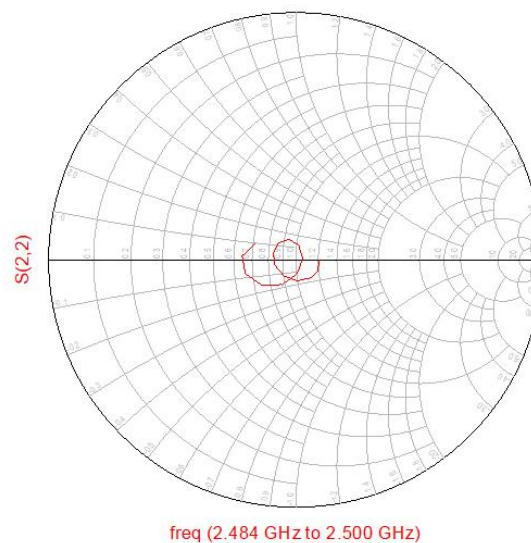
Output Return Los



Input Smith Chart



Output Smith Chart



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Packaging and Ordering Information

Figure 9. MBF2492D33 Packaging Specifications

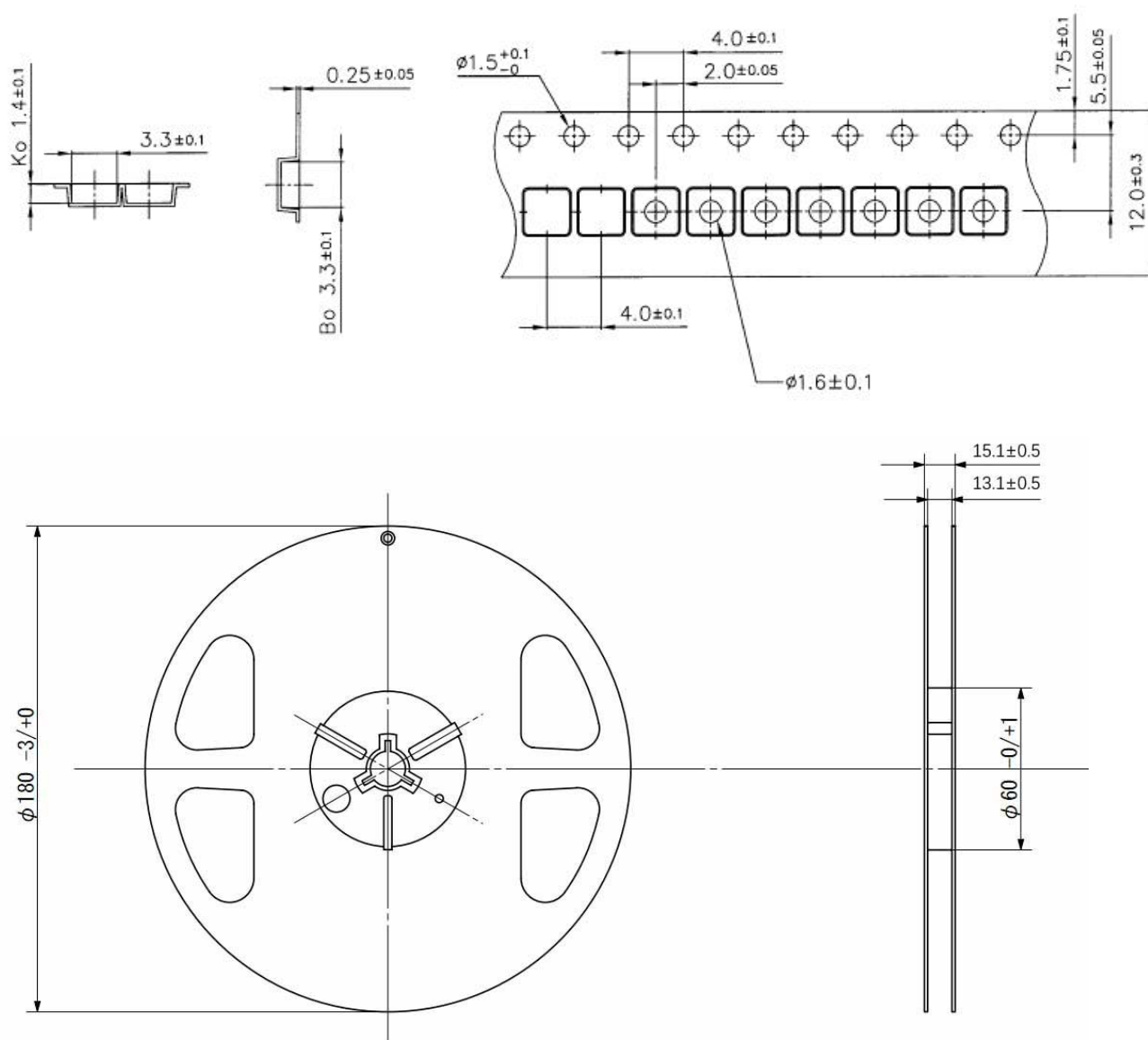


Table 2. MBF2492D33 Ordering Information

Device	Package	Reel	Shipping
MBF2492D33	3*3mm	7"	2000/Reel

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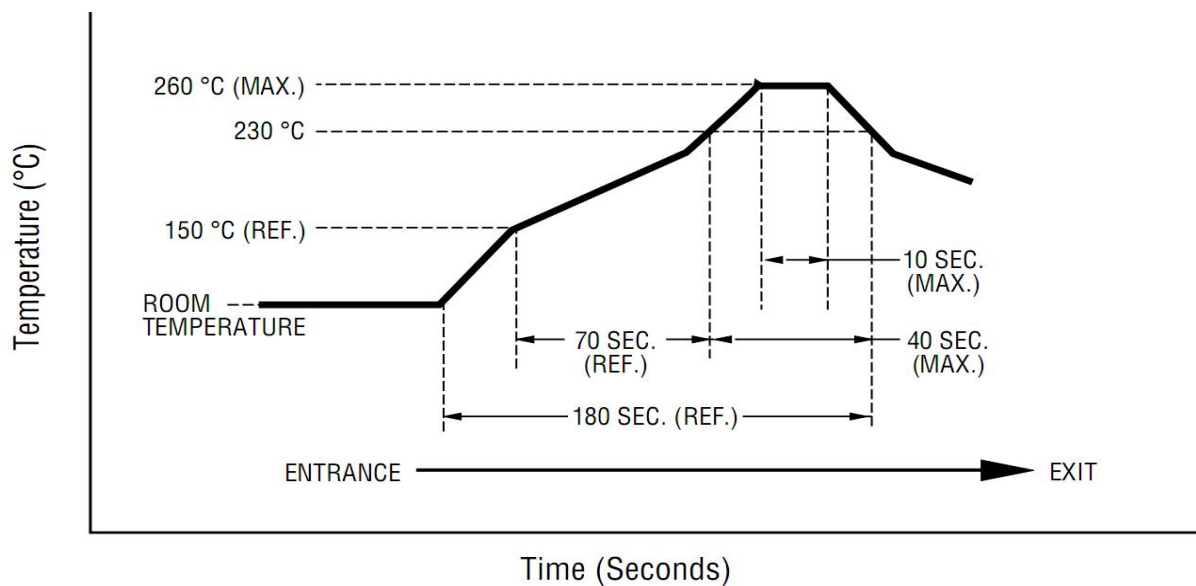
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Recommended Reflow Solder Profile

Figure 10. MBF2492D33 Recommended Reflow Solder Profile



Revision	Description	Date
Rev1	Preliminary	2025/8/22

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