

MBF1221D33

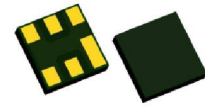
BAW Band Pass Filter For GNSS Antenna



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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

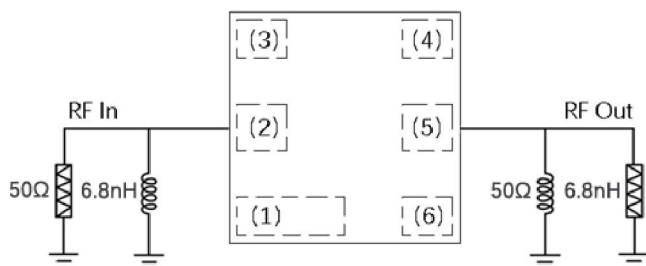
MBF1221D33 is a filter for GNSS antenna, which is designed with BAW technology. The product can provide low insertion loss and rejection. The typical insertion loss in the pass band is less than 1.5dB. The MBF1221D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(1166~ 1278 MHz)		1.0	2	dB
Ripple(1166~ 1278 MHz)			1.2	dB
VSWR(1166~ 1278 MHz)			2	
Absolute Attenuation				
10 ~ 960 MHz	35			dB
1525 ~ 1605MH	36			dB
2170 ~ 2370 MH	38			dB
2400 ~ 2483 MH	40			dB
2515 ~ 2675 MH	40			dB
Operating Temp.	-40		125	°C
Input Power			32	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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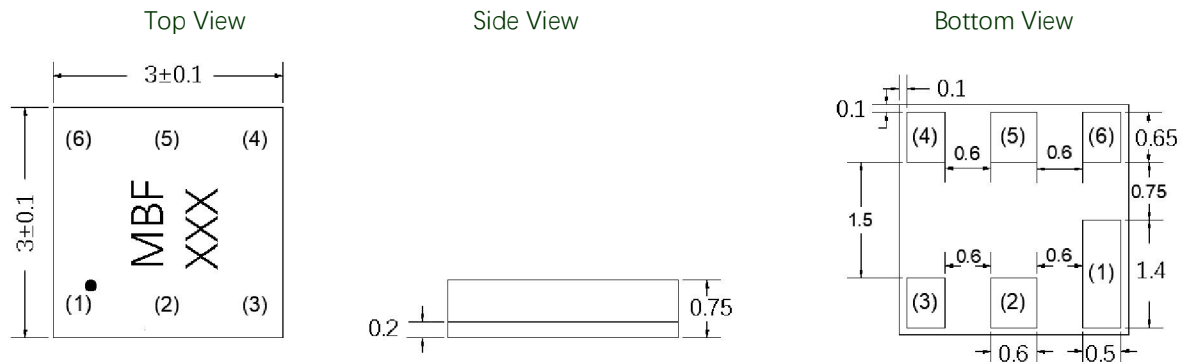
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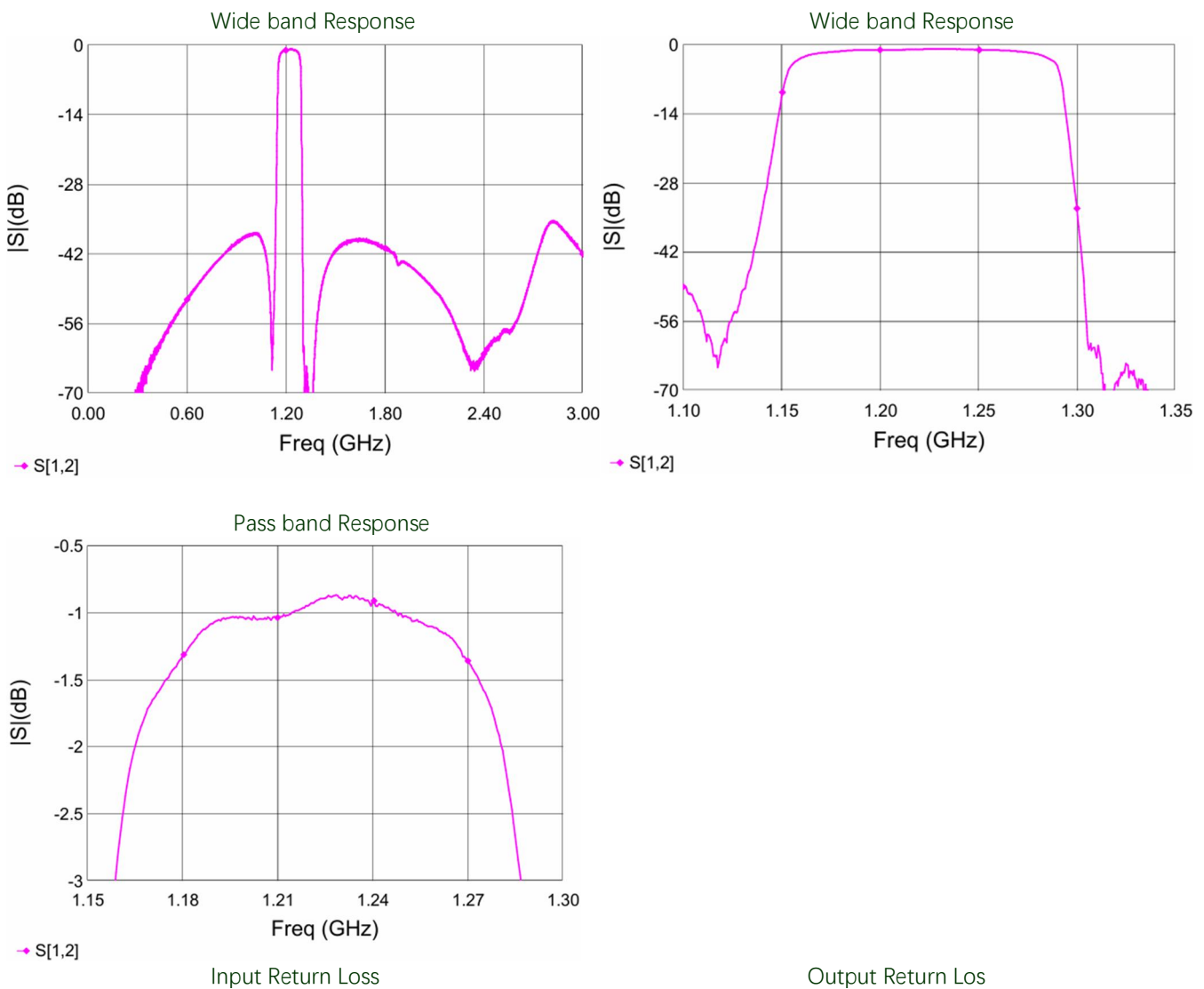


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Outline Drawing



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

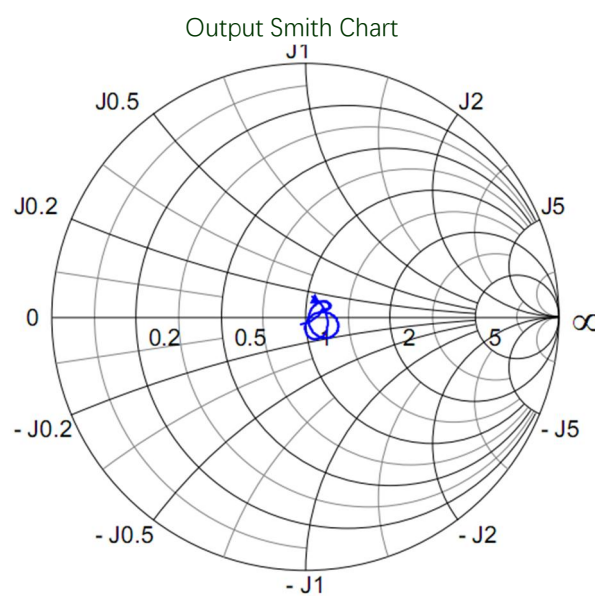
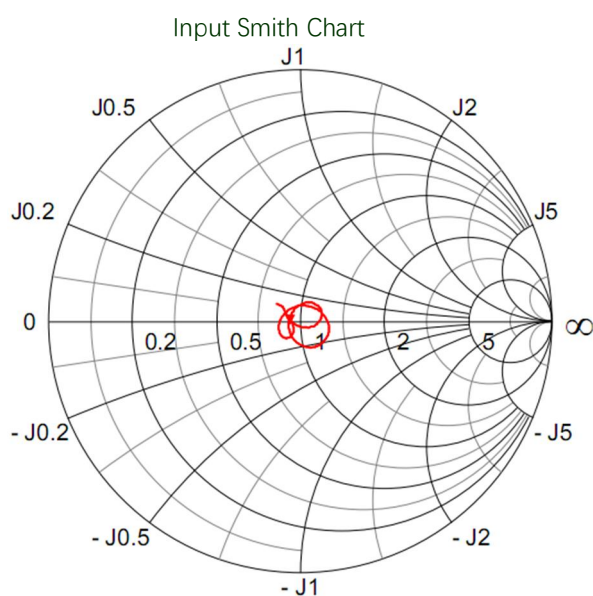
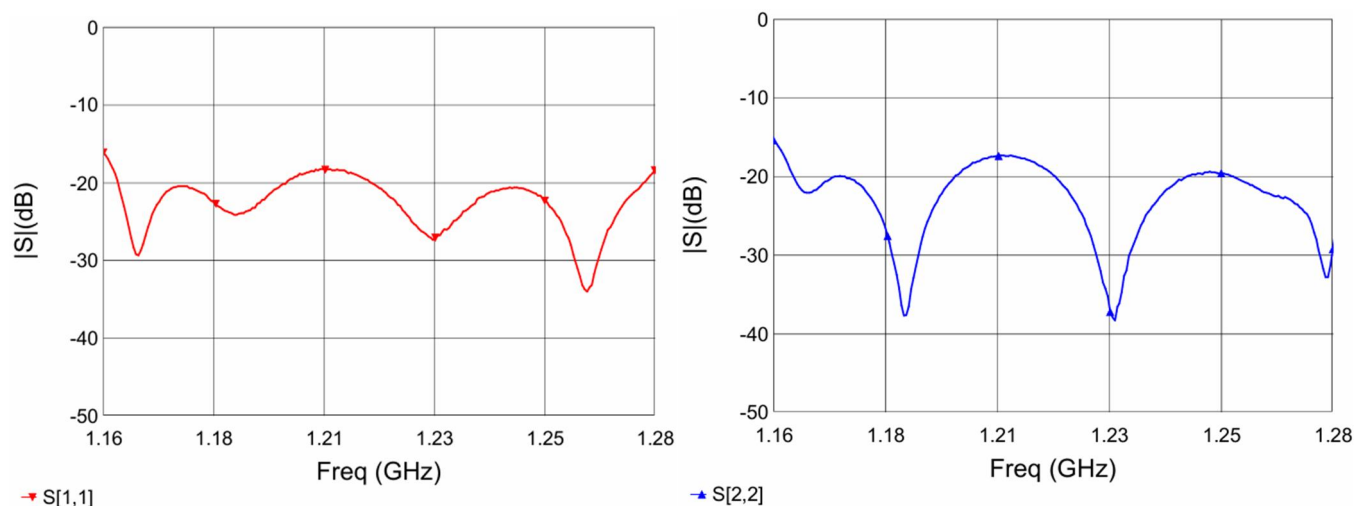


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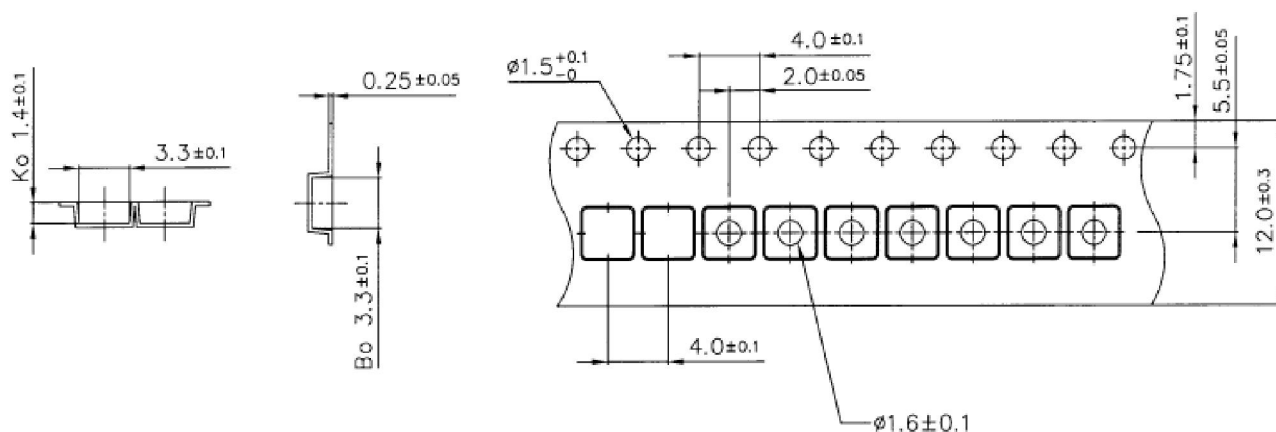


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Packaging and Ordering Information

Figure 9. MBF1221D33 Packaging Specifications



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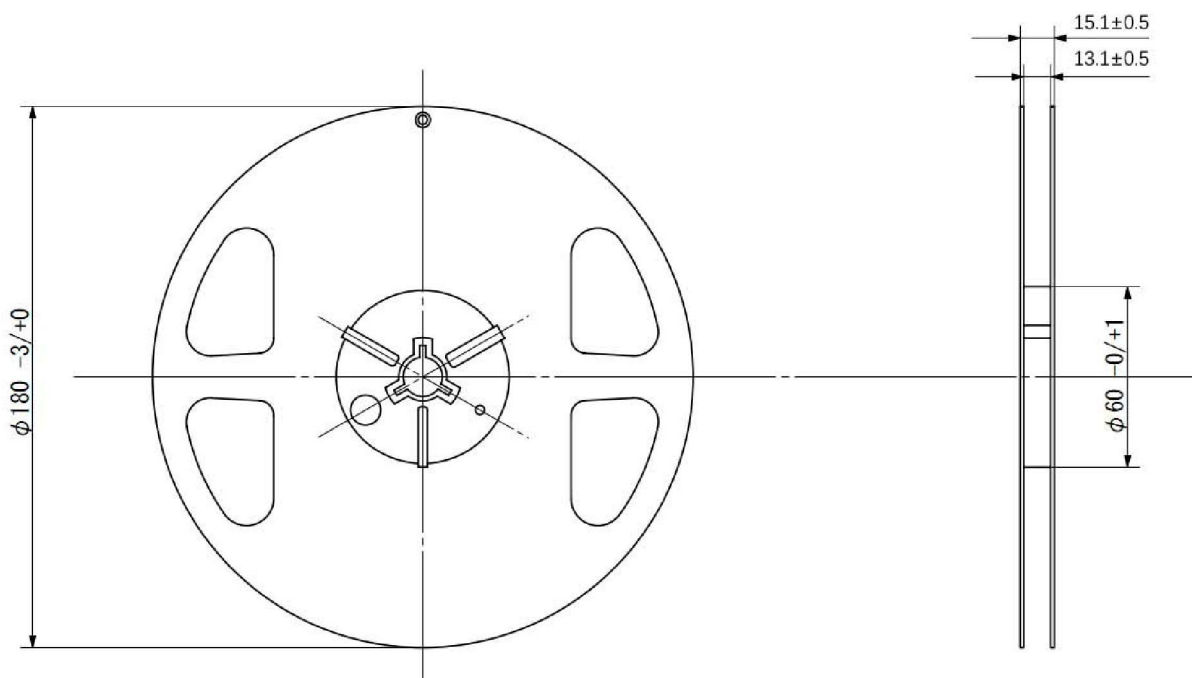


Table 2. MPD1020W2 Ordering Information

Device	Package	Reel	Shipping
MBF1221D33	3*3mm	7"	2000/Reel

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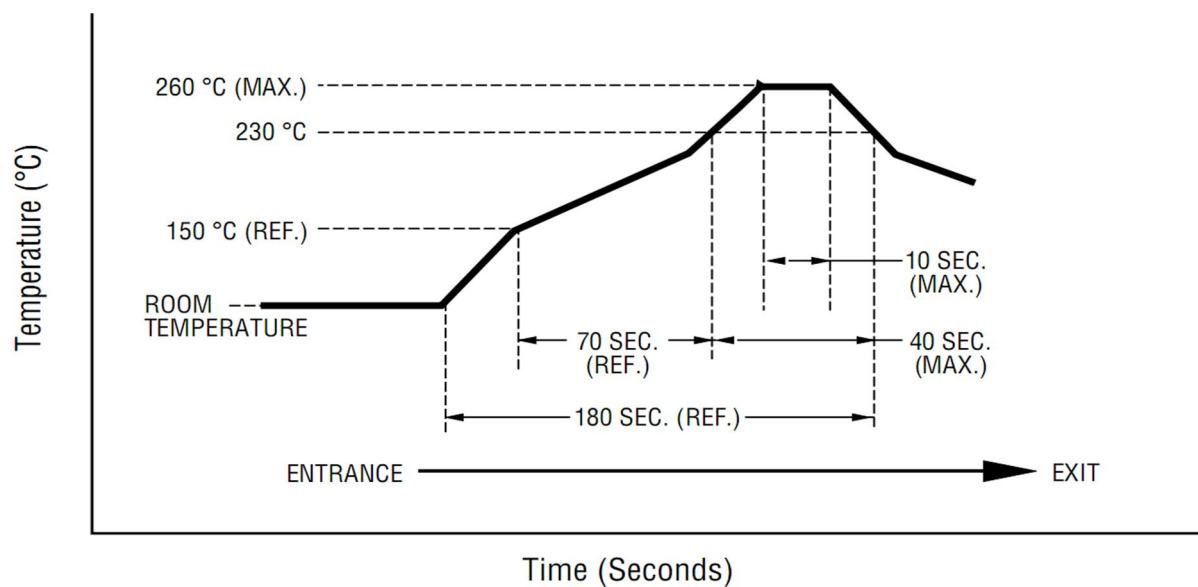
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Recommended Reflow Solder Profile

Figure 10. MBF1221D33 Recommended Reflow Solder Profile



Revision	Description	Date
Rev1	Preliminary	2023/10/28
Rev1.1	Inductor	2024/8/2

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