

MBF1575D33

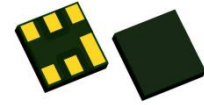
BAW Band Pass Filter For GNSS Antenna



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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

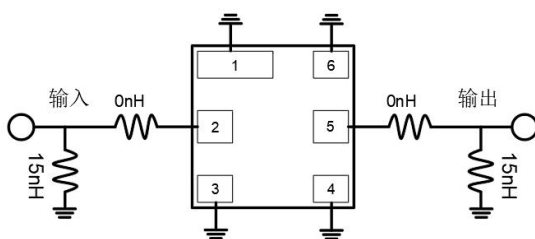
MBF1575D33 is a filter for GNSS antenna, which is designed with BAW technology. The product can provide low insertion loss and rejection. The typical insertion loss in the pass band is less than 1.2dB. The MBF1575D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(1559~ 1591 MHz)		1	1.2	dB
Ripple(1559~ 1591 MHz)		0.4	0.6	dB
VSWR(1559~ 1591 MHz)		1.6	1.8	
Absolute Attenuation				
800 ~ 1500 MHz	25	35		dB
1500 ~ 1550MH	6	13		dB
1610 ~ 1627 MH	40	48		dB
1651 ~ 1681 MH	30	40		dB
1700 ~ 2100 MH	20	25		dB
2100 ~ 2690 MH	15	20		
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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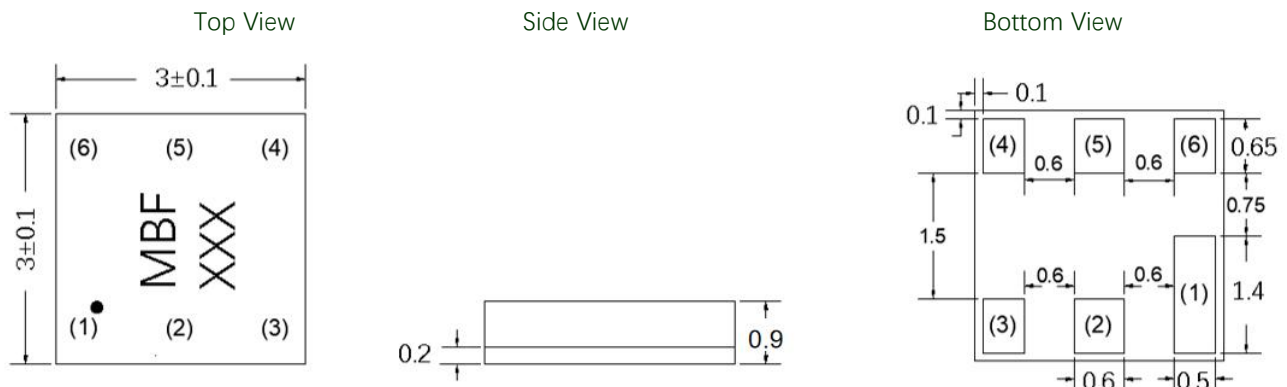
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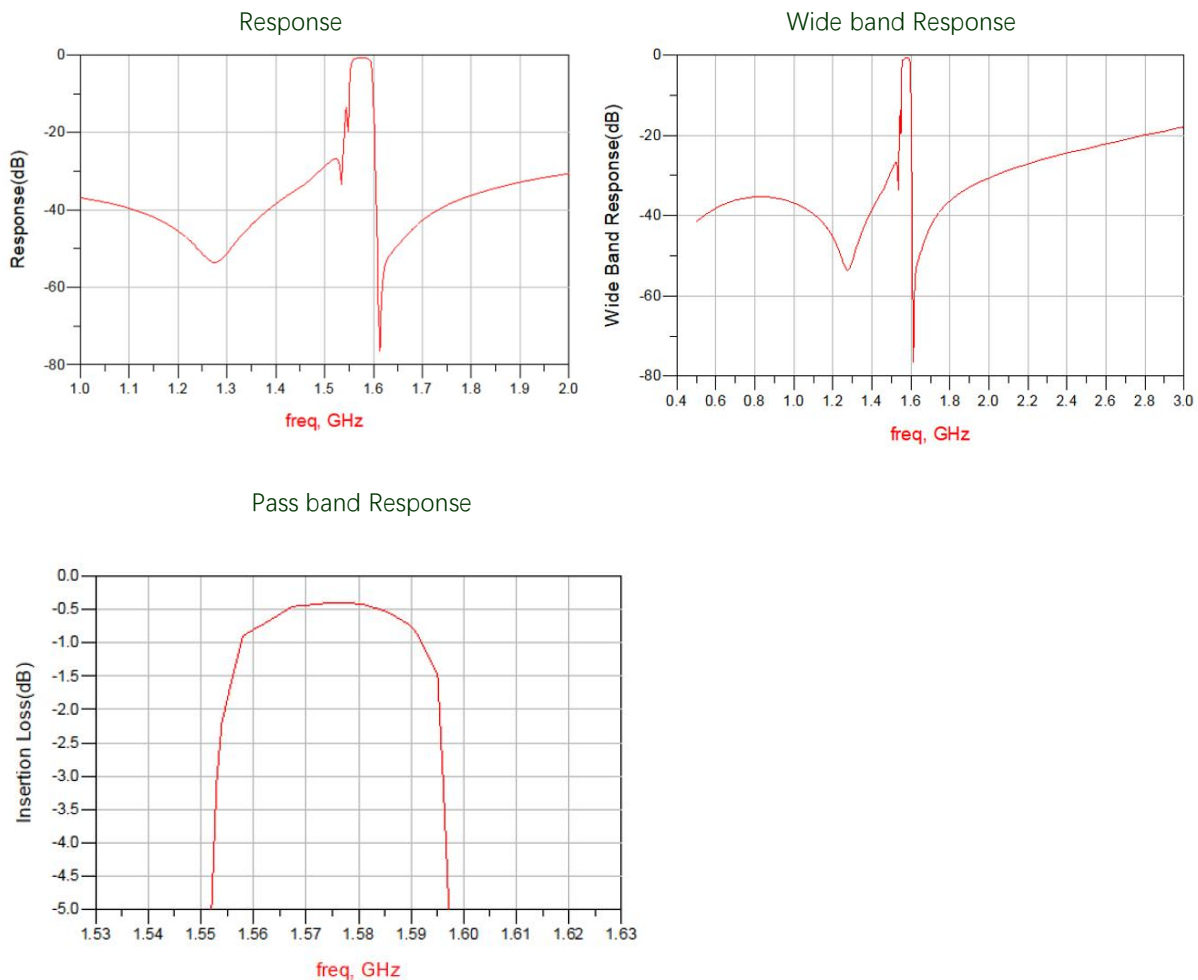


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Outline Drawing



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



Input Return Loss

Output Return Los

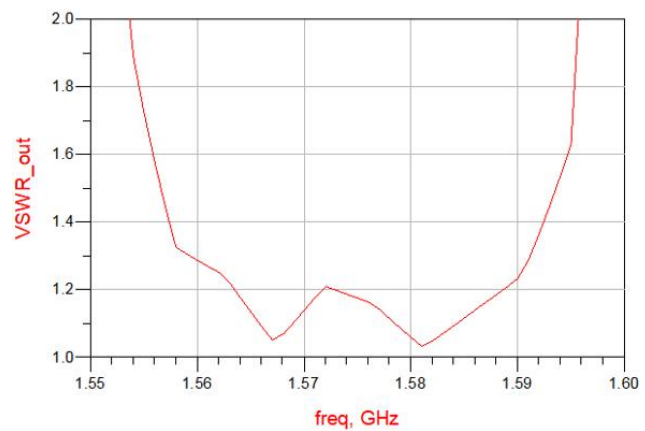
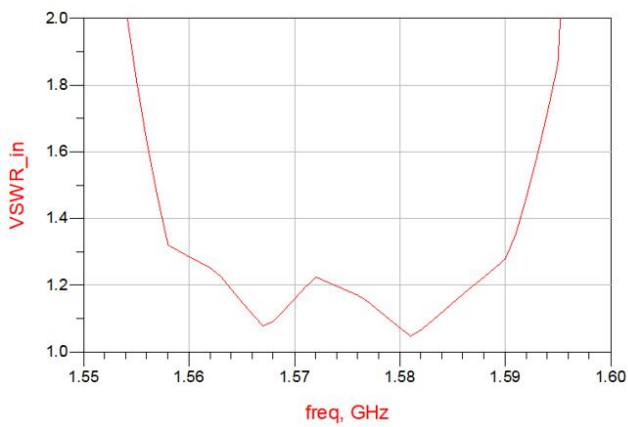
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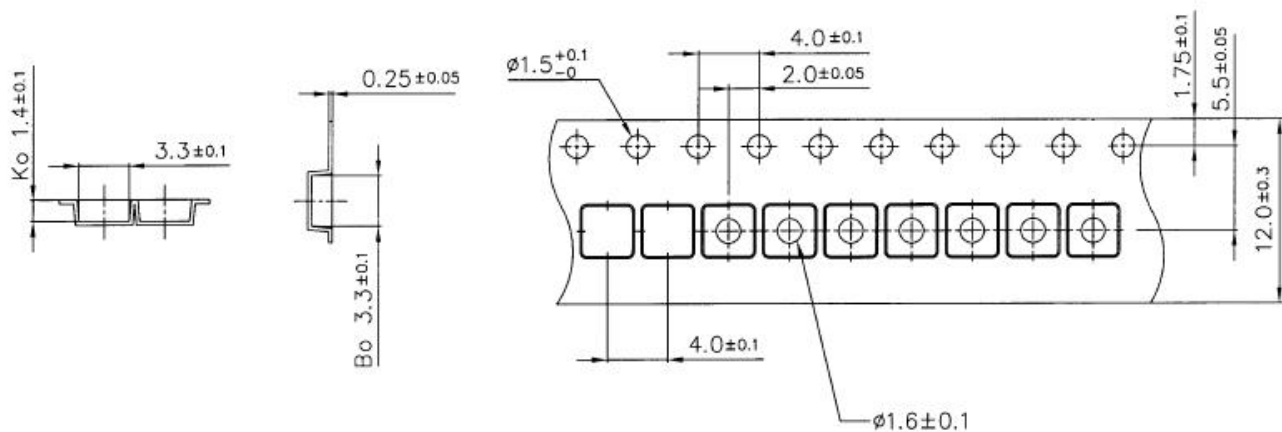


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Packaging and Ordering Information

Figure 9. MBF1575D33 Packaging Specifications



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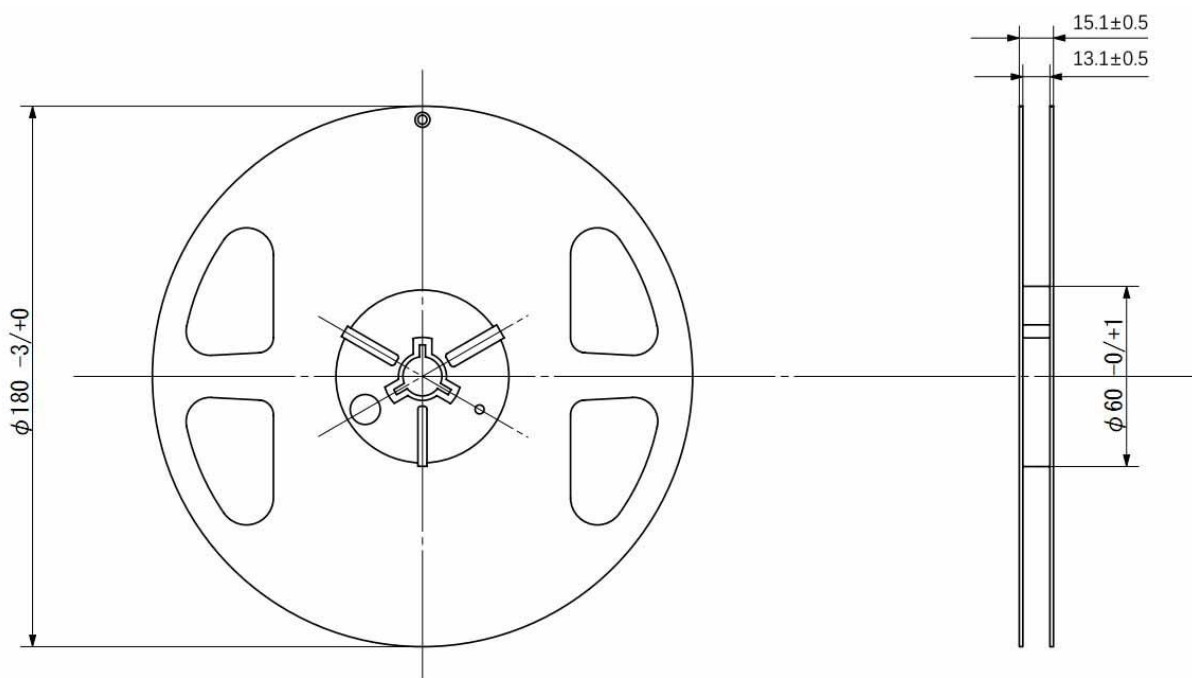
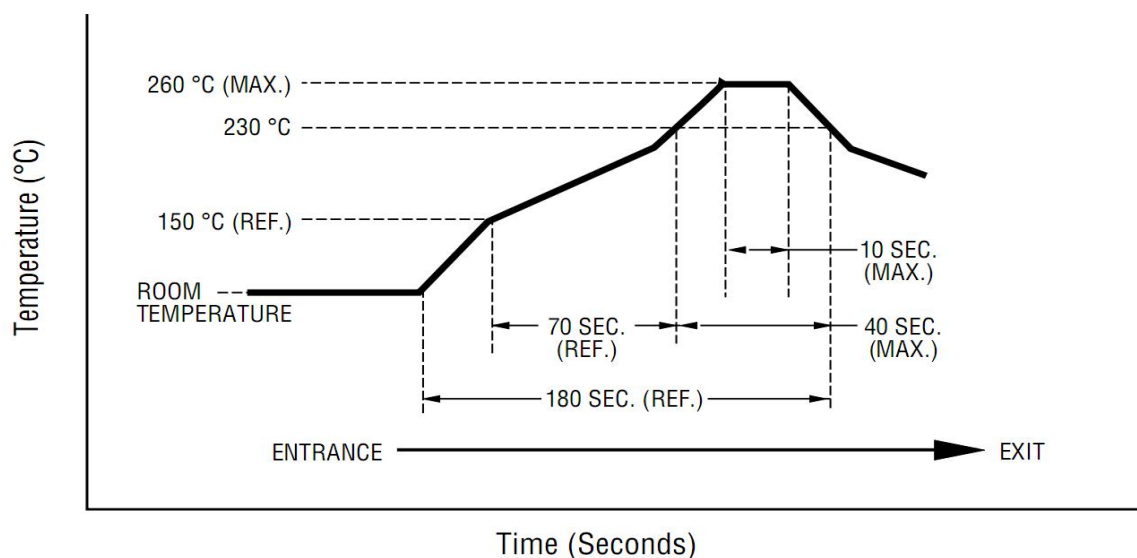


Table 2. MBF1575D33 Ordering Information

Device	Package	Reel	Shipping
MBF1575D33	3*3mm	7"	2000/Reel

Recommended Reflow Solder Profile

Figure 10. MBF1575D33 Recommended Reflow Solder Profile



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Revision	Description	Date
Rev1	Preliminary	2025/10/5
Rev2	update	2025/12/26
Rev3	update	2026/3/18

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