

MBF1475D33

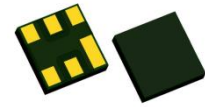
BAW Band Pass Filter For Image Transmission



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Applications

- 1, LTE Small & Base Station
- 2, DAS, PICO
- 3, Image Transmission



Features

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

Description

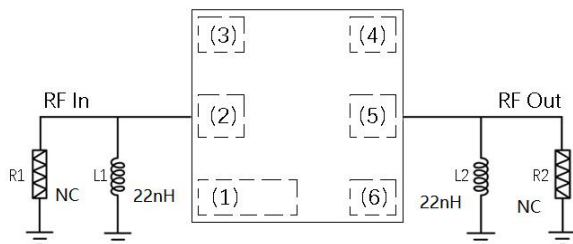
MBF1475D33 is a filter for Image Transmission, which is designed with BAW technology. The product can provide low insertion loss and rejection. The typical insertion loss in the pass band is less than 2dB. The MBF1475D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(1420~ 1530 MHz)		1.8	2	dB
Ripple(1420~ 1530 MHz)			1.2	dB
VSWR(1420~ 1530 MHz)			2	
Absolute Attenuation				
1000 ~ 1300 MHz	35	32		dB
1300 ~ 1360MH	38	35		dB
1590 ~ 2000 MH	35	32		dB
2000 ~ 3500 MH	35	32		dB
3500 ~ 5000 MH	27	25		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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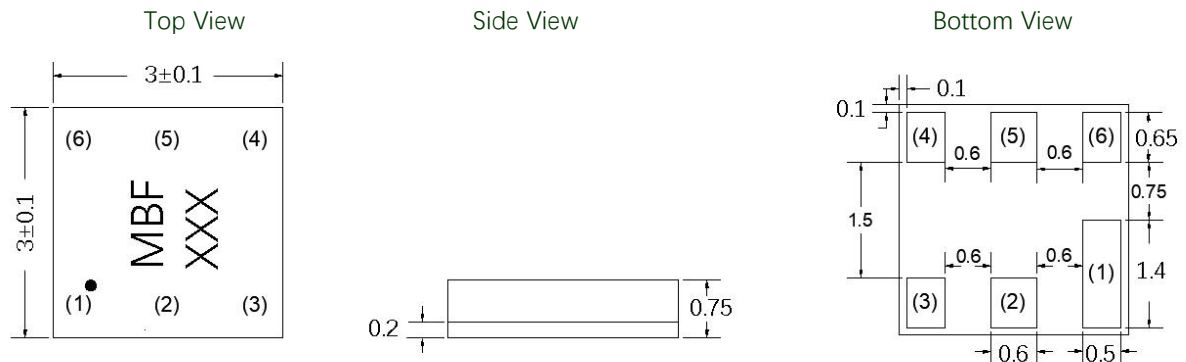
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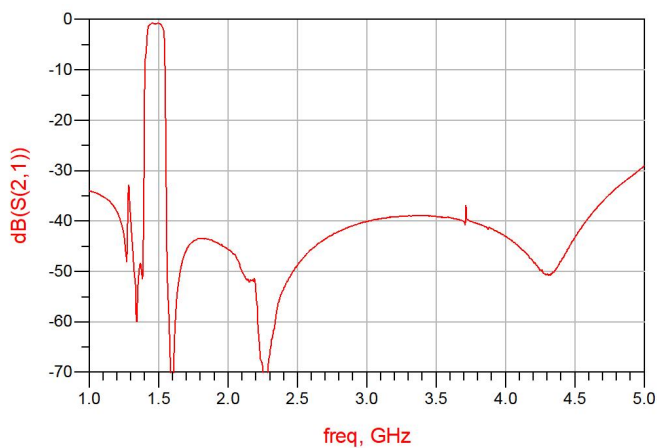
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Outline Drawing

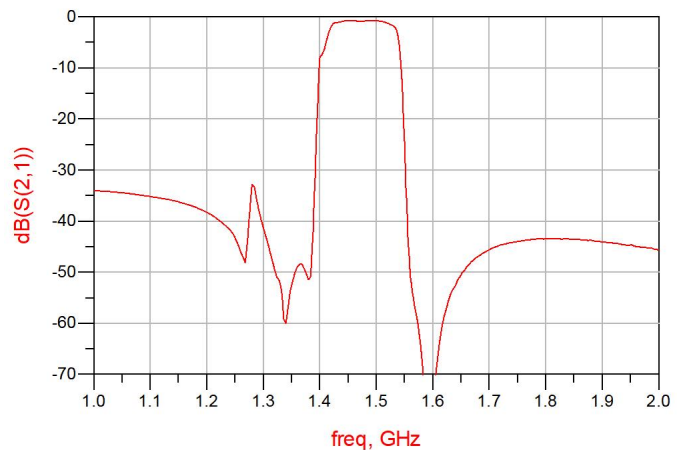


Typical Performance (Temp = +25 °C, 50 Ω system)

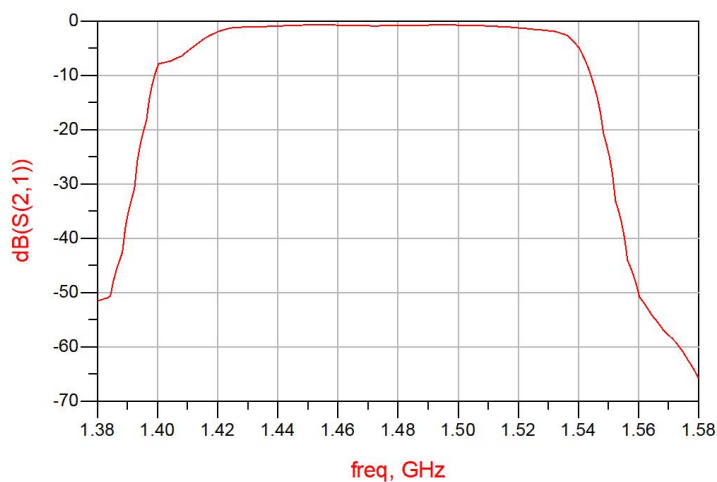
Wide band Response



Wide band Response



Pass band Response



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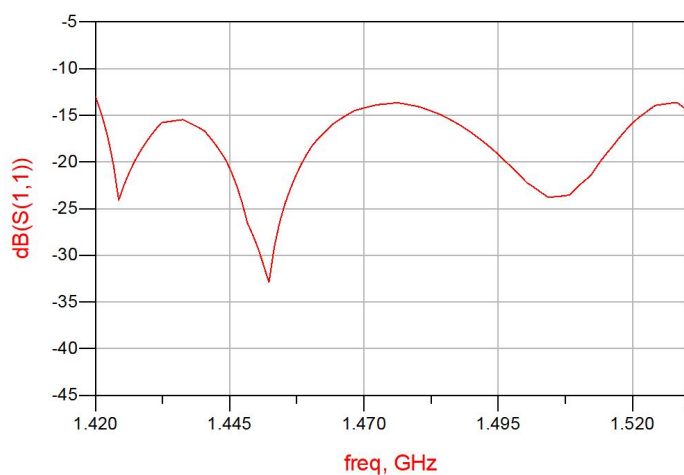
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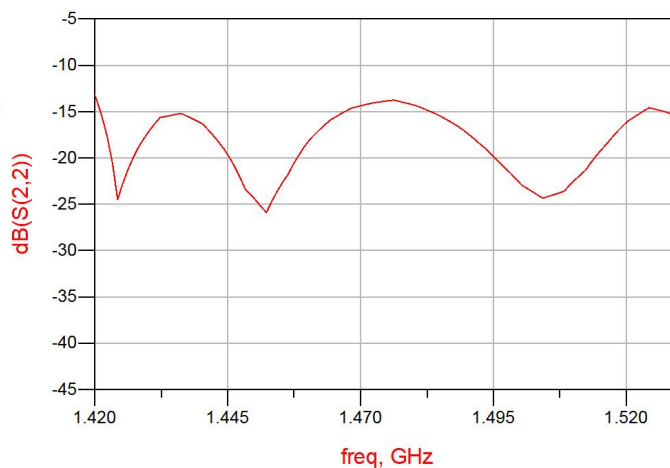


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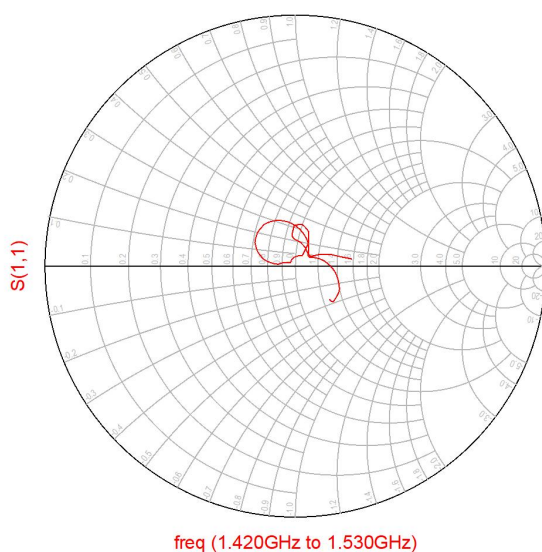
Input Return Loss



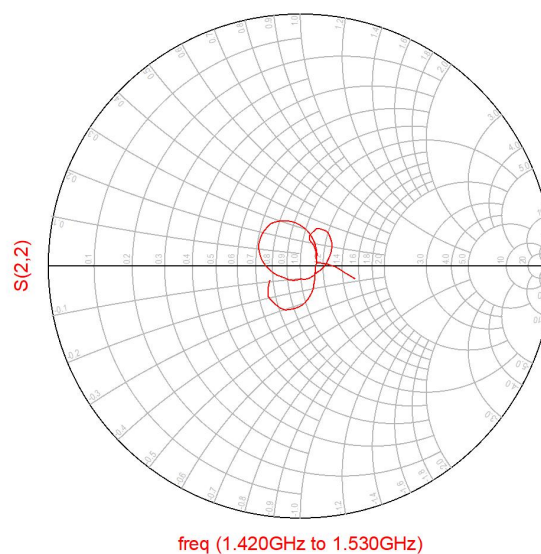
Output Return Los



Input Smith Chart



Output Smith Chart



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Packaging and Ordering Information

Figure 9. MBF1475D33 Packaging Specifications

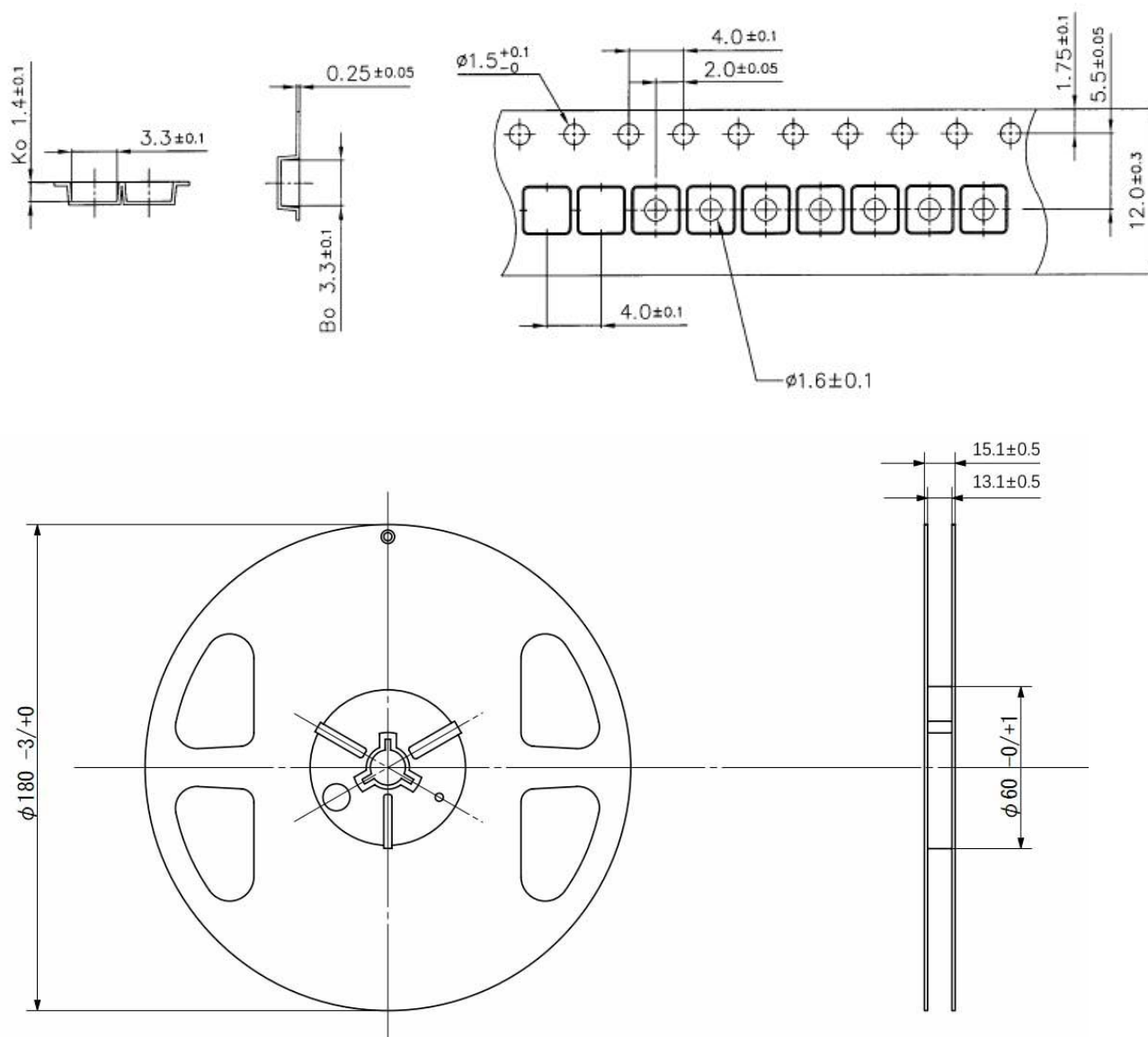


Table 2. MBF1475D33 Ordering Information

Device	Package	Reel	Shipping
MBF1475D33	3*3mm	7"	2000/Reel

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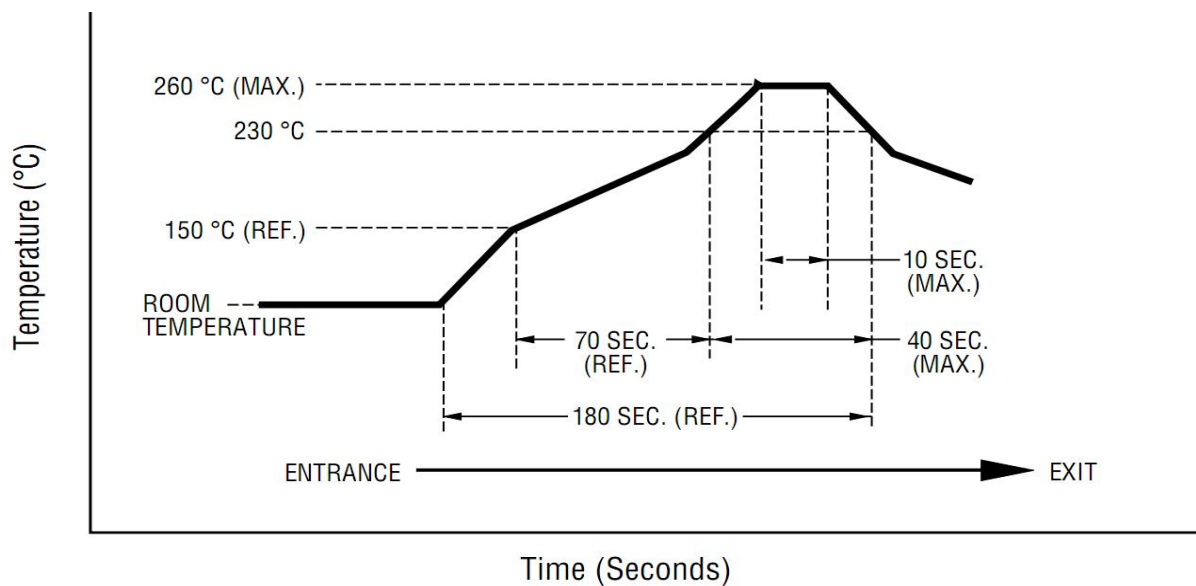
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Recommended Reflow Solder Profile

Figure 10. MBF1475D33 Recommended Reflow Solder Profile



Revision	Description	Date
Rev1	Preliminary	2025/9/5
Rev2		2025/12/08

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