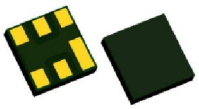
MBF3450D33

N78 300MHz BAW Filter

Applications

1, LTE Small & Base Station
2, DAS, PICO
3, Poser Amplifier System



Features

1, Package size 3.0 x3.0 mm
2, Low insertion loss
3, High Rejection in Band1, Band3 and 2.4G Wi-Fi Band
4, RoHS compatible

Description

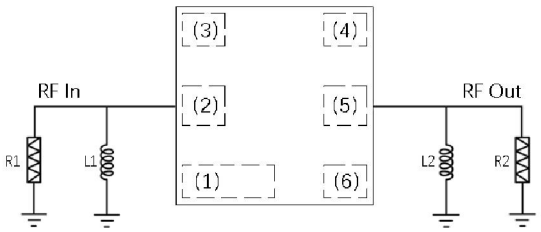
MBF3450D33 is a 3.5G filter for Band N78, which is designed with BAW technology. The product can provide low insertion loss and steep skirt to enables coexistence of Band1, Band3 and Wi-Fi 2.4G signals. The typical insertion loss in the pass band is less than 1.5dB. The MBF3450D33 uses advanced module packing techniques to achieve the industry standard 2.0x1.6mm package,

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(3300~ 3600 MHz)		1.5	3	dB
Ripple(3300~ 3600 MHz)			1.6	dB
VSWR(3300~ 3600 MHz)			2	dB
Absolute Attenuation	30			dB
100 ~ 2403 MHz	30			dB
2403 ~ 2483 MH	35			dB
2483 ~ 3250 MH	26			dB
3650 ~ 3800 MH	20			dB
Operating Temp.	-40		125	℃
Input Power			35	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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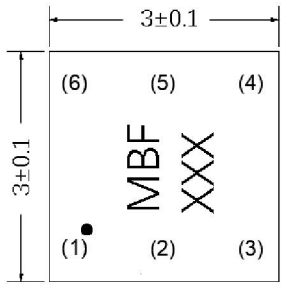
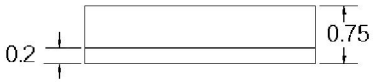
Outline Drawing

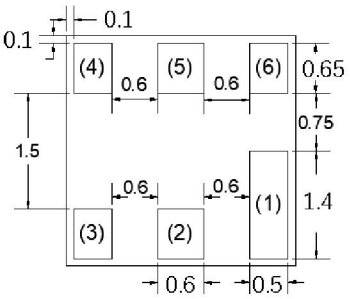
Top View



Side View

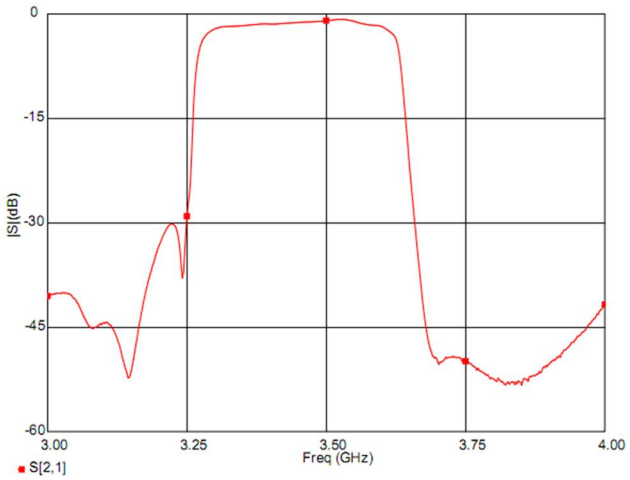


Bottom View

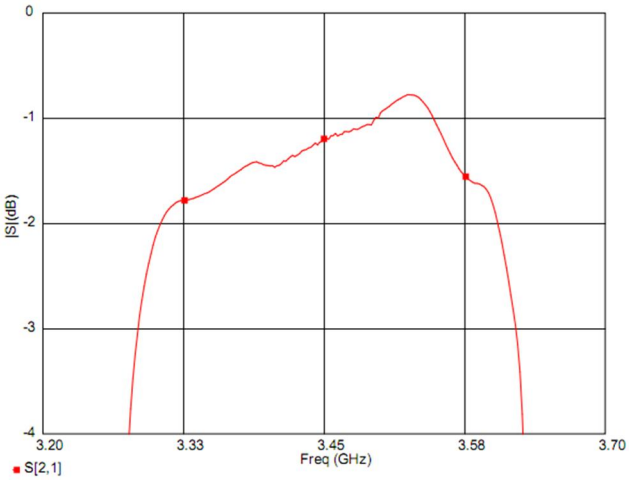


Typical Performance (Temp = +25 °C, 50 Ω system)

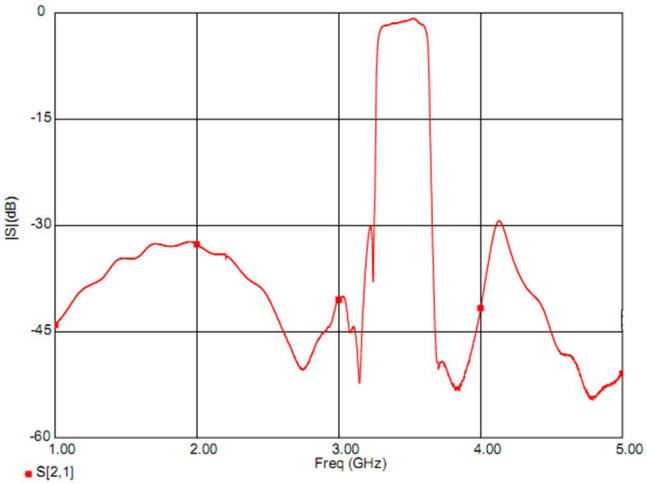
Frequency Response



Pass band Response



Wide band Response



Input Return Loss

Output Return Los

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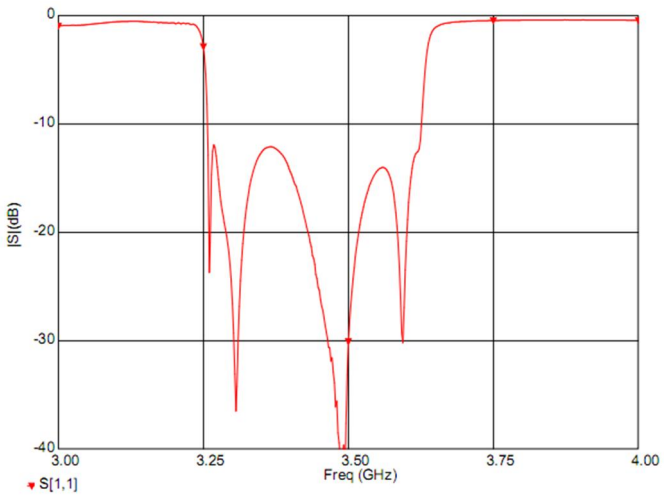
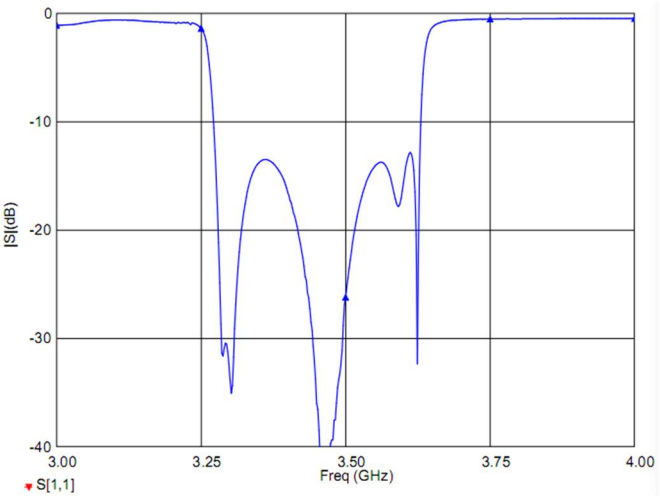
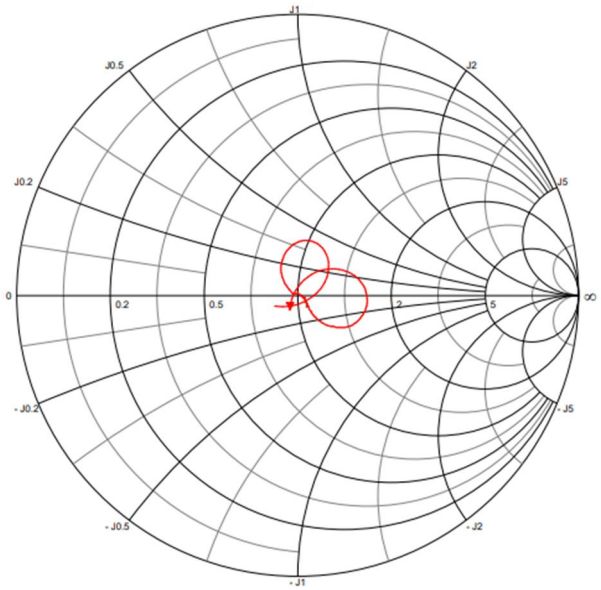
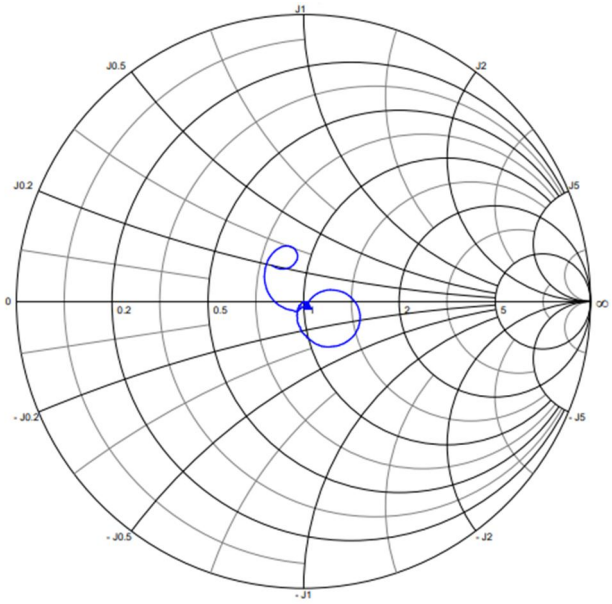




Input Smith Chart

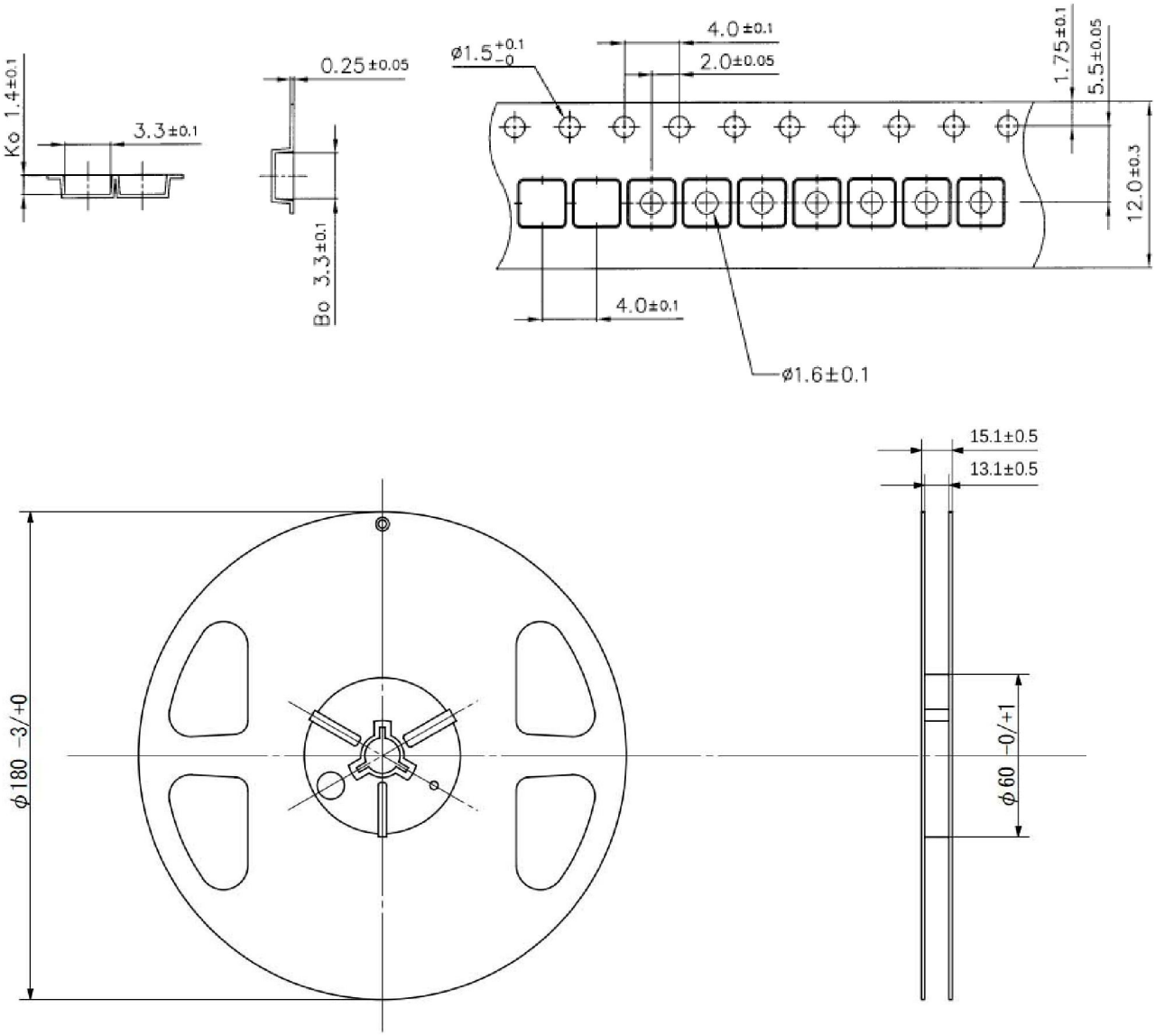


Output Smith Chart



Packaging and Ordering Information

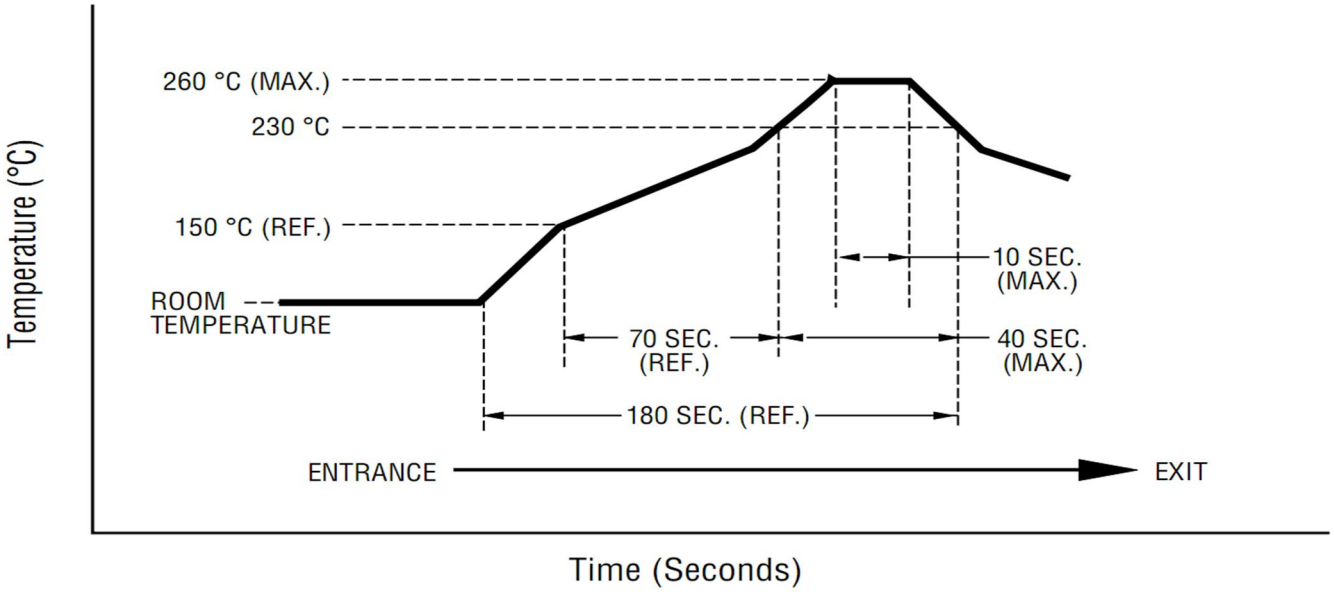
Figure 9. MBF3450D33 Packaging Specifications



Packaging and Ordering Information

Device	Package	Reel	Shipping
MBF3450D33	3.0*13.0	7''	2000 Reel

Recommended Reflow Profile



Revison	Description	Date
Rev0	Preliminary	2023/5/29