

MBF3450D21

N78 300MHz BAW Filter

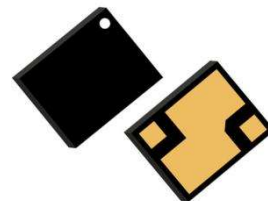


Applications

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

Features

- 1, Package size 2.0 x1.6 mm
- 2, Low insertion loss
- 3, High Rejection in Band1, Band3 and 2.4G Wi-Fi Band
- 4, RoHS compatible



Description

MBF3450D21 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 MBF3450D21 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	°C
Input Power			32	dBm
Moisture Sensitivity Levels		3		MSL

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

Pin Configuration

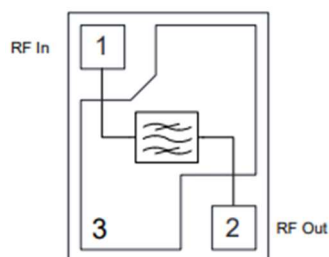
Pin No.	Label
1	RF In
2	RF Out
3	GND Back Side Paddle

All Use For RF & Microwave

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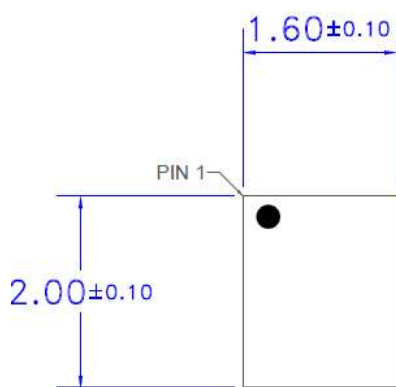
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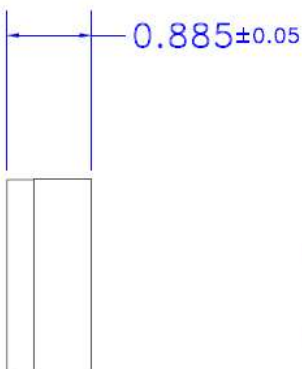


Outline Drawing

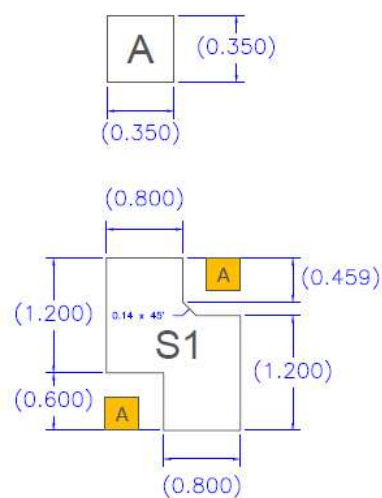
Top View



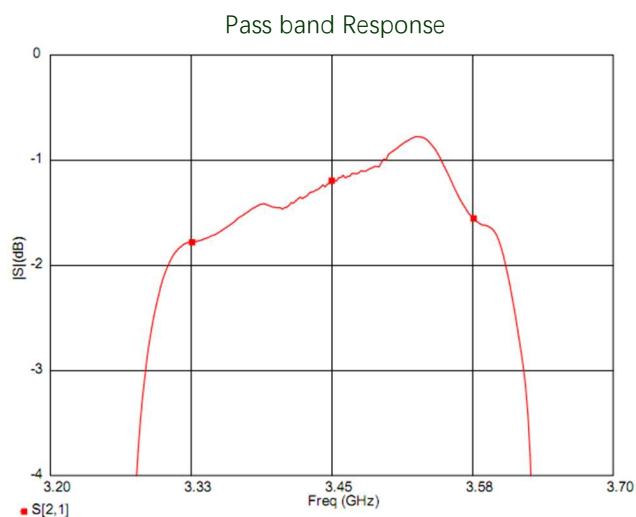
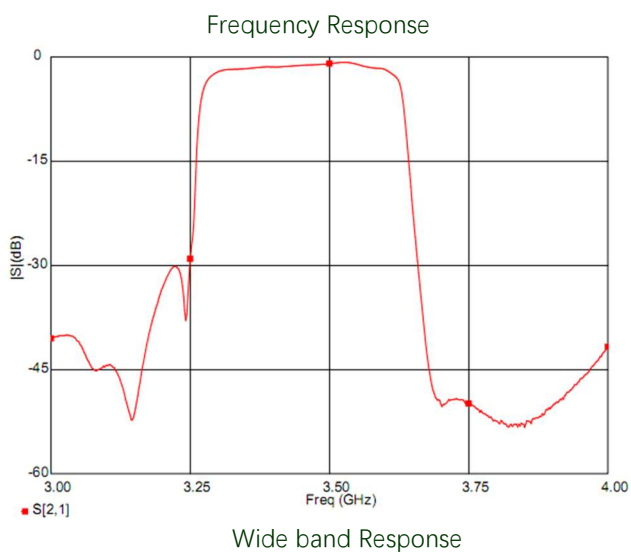
Side View



Bottom View



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

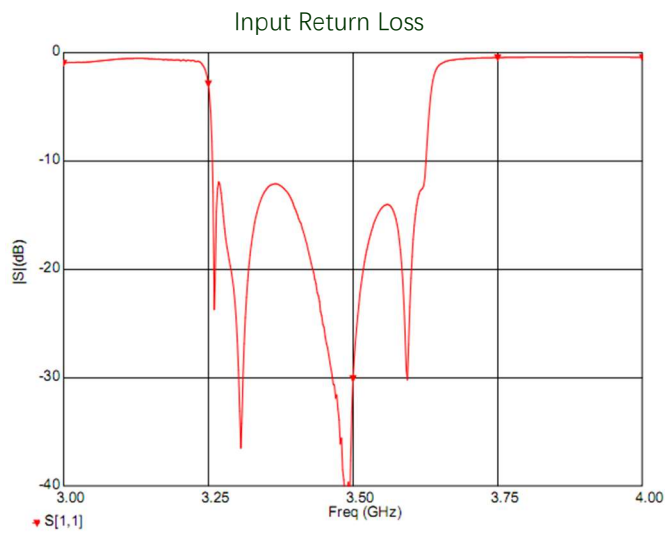
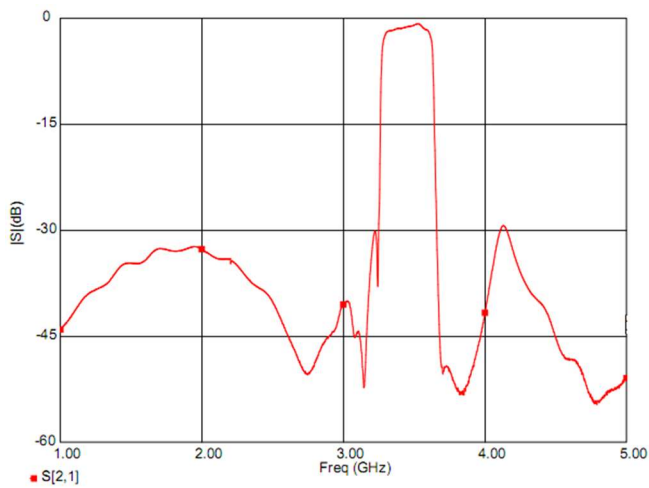


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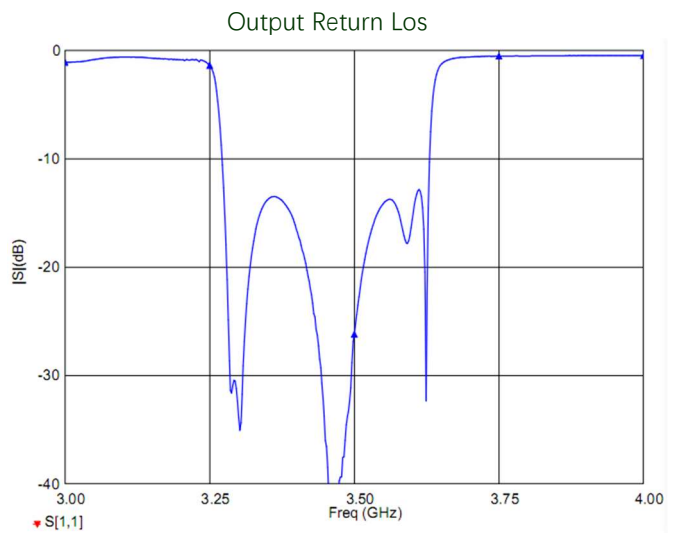
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Input Smith Chart



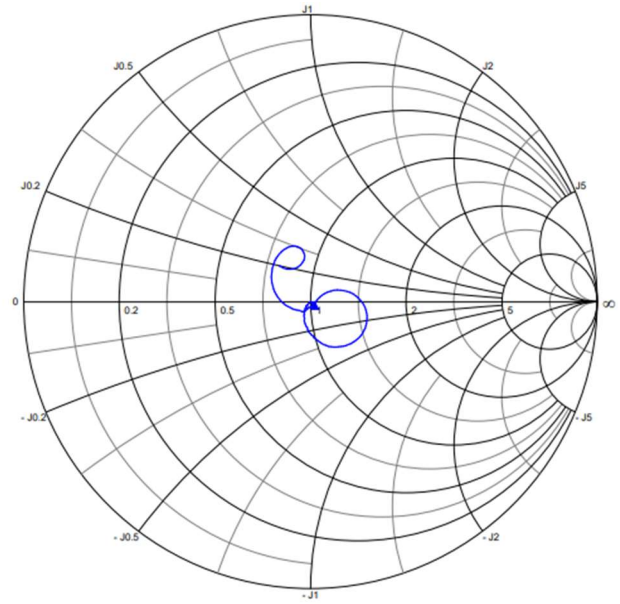
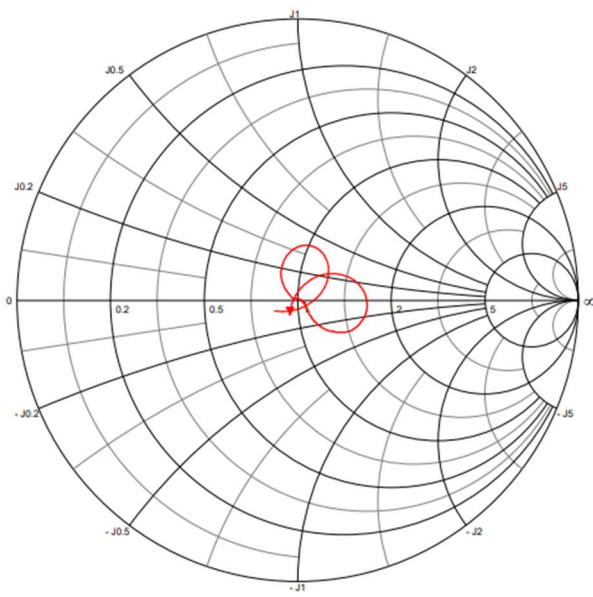
Output Smith Chart

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Recommended Reflow Profile

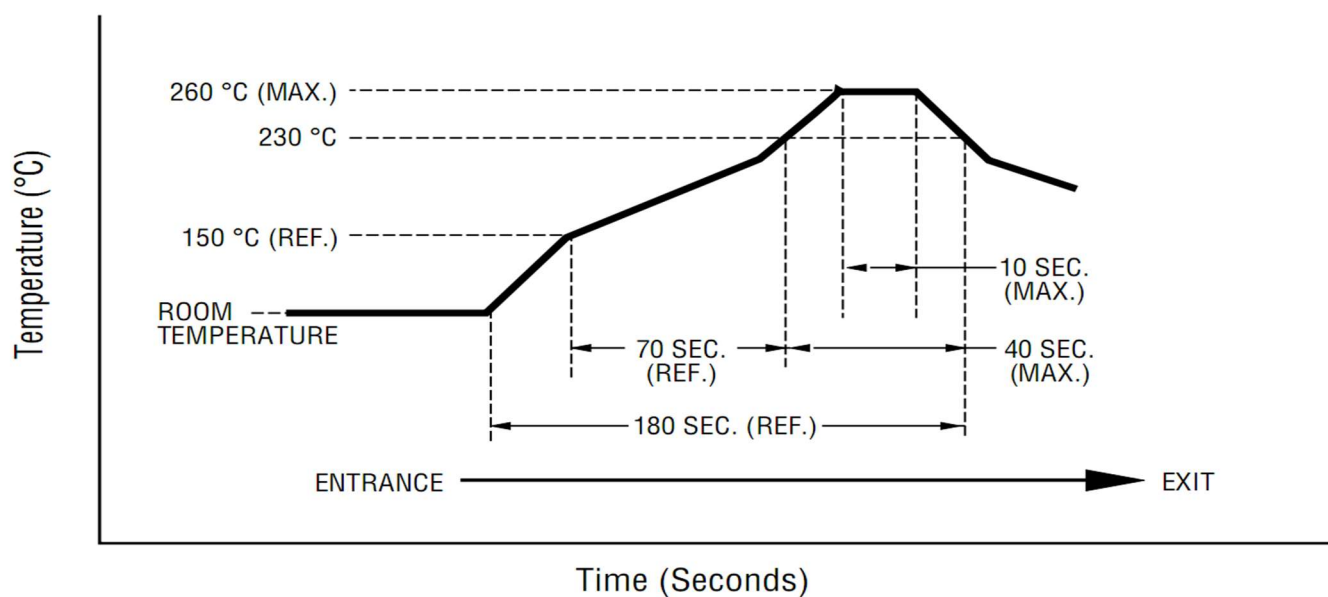
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Packaging and Ordering Information

Device	Package	Reel	Shipping
MBF3450D21	2.0*1.6	7"	2500 Reel

Revision	Description	Date
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Rev0	Preliminary	2023/5/29

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