

MLBF2595D21

Band Pass Filter For 2515-2675MHz



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Band Pass Filter

For 2515-2675MHz

MLBF2595D21

2.0 x 1.25mm [EIA 0805]

All Use For RF & Microwave

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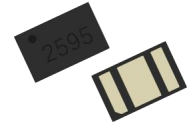
Feb. 03, 2024

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Features

- 1, Low Insertion Loss
- 2, Small size in 0805
- 3, Excellent high-power capacity up to 33dBm
- 4, RoHS compliance (Pb-Free)
- 5, AEC-Q200 qualified

Description

The MLBF2595D21 is a low cost, high-performance band pass filter in an easy to use surface mount package. The MLBF2595D21 is ideal for low insertion loss and wide band application. It is suitable used in smart phone, 5G module and other IOT modules. It is based on Megsine's advanced MiPD Technology which possess excellent electrical and mechanical stability. All components are 100% RF tested.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(2515~ 2675 MHz)	-	1.5	3	dB
Ripple(2515~ 2675 MHz)	-	-	1.5	dB
VSWR(2515~ 2675 MHz)	-	-	2	dB
Absolute Attenuation				
100 ~ 2170 MHz	30	-	-	dB
2170 ~ 2370 MHz	25	-	-	dB
2400 ~ 2440 MHz	30	-	-	dB
2440 ~ 2483 MHz	30	-	-	dB
2760~ 3600 MHz	30	-	-	-
4700~ 5000 MHz	20	-	-	-
Operating Temp.	-40	-	125	°C
Input Power	-	-	33	dBm
Moisture Sensitivity Levels	-	3	-	MSL

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

Shapes and Dimensions

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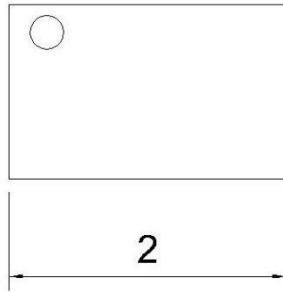
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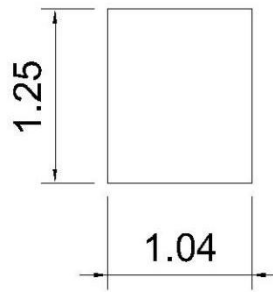
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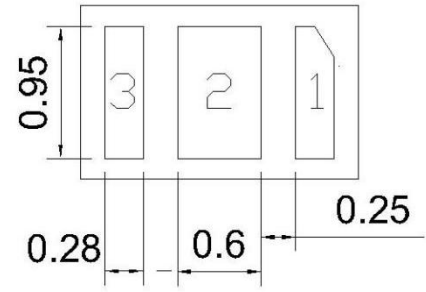
Top View



Side View

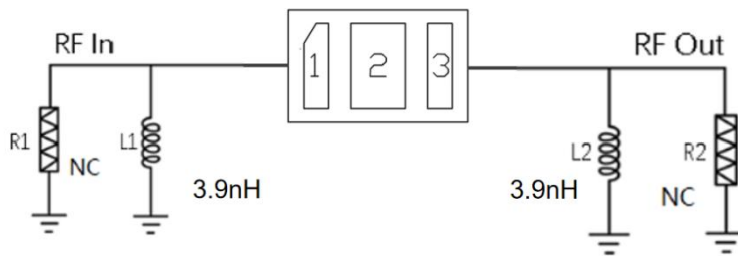


Bottom View



•Unit: mm •Tolerance: $\pm 0.1\text{mm}$

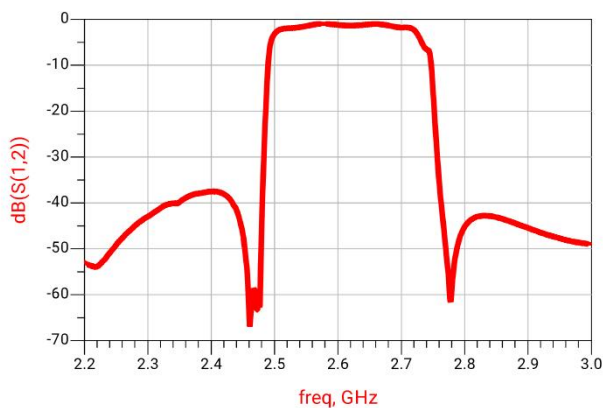
Pin Configuration



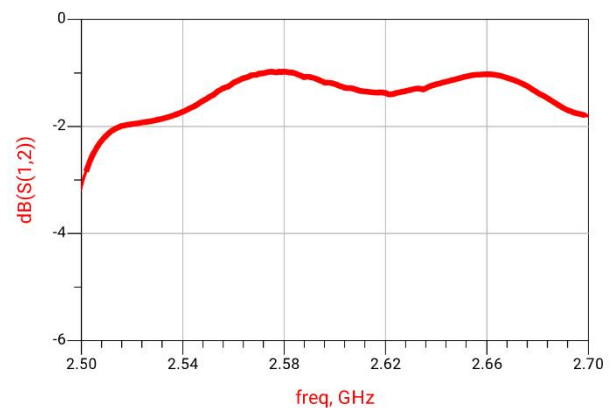
Pin No	Label
1	RF In
2	GND
3	RF Out

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

Wide band Response



Pass band Response



Input Return Loss

Output Return Los

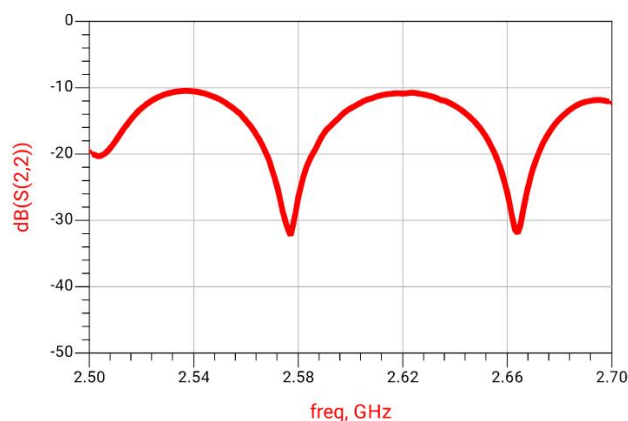
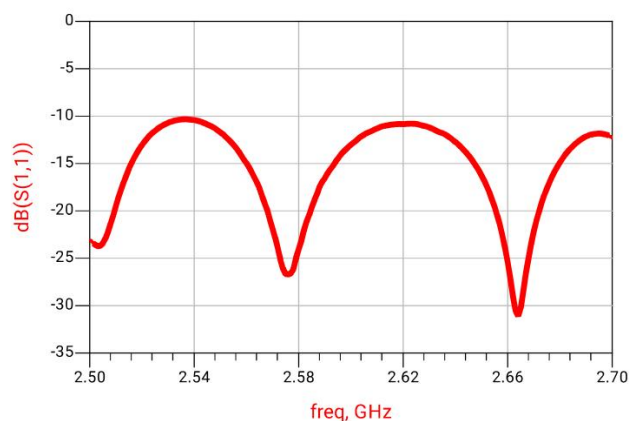
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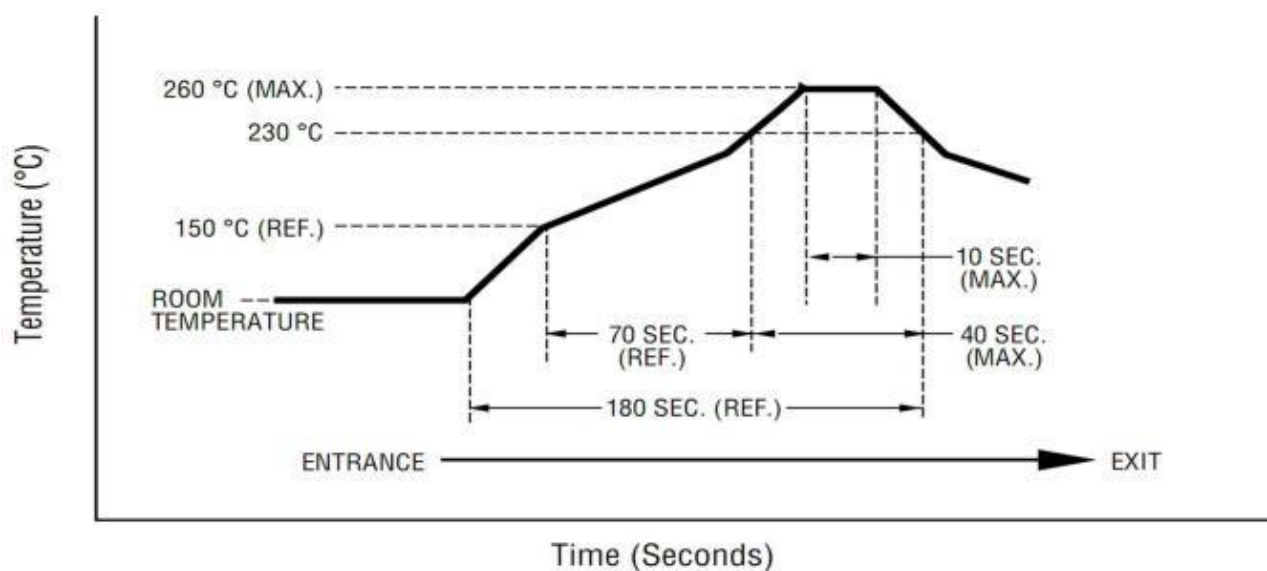
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Recommended Reflow Profile



Packaging and Ordering Information

Device	Package	Reel	Shipping
MLBF2595D21	2.0*1.25mm	7"	4000 Reel

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Revision	Description	Date
Rev0	Preliminary	2026/07/30

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