

MSF0806D33

Band 20 SAW Band Pass Filter



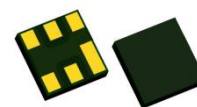
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Applications

- 1, LTE Small & Base Station
- 2, DAS, PICO

Features

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



Description

MSF0806D33 is a band 20 band pass filter, which is designed with SAW technology. The product can provide low insertion loss and rejection. The typical insertion loss in the pass band is less than 1.5dB. The MSF0806D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(791~ 821 MHz)		2.1	3	dB
Ripple(791~ 821 MHz)		0.8	1.8	dB
VSWR(791~ 821 MHz)		2.0	2.3	
Absolute Attenuation				
0 ~ 760 MHz	40	50		dB
760 ~ 770MHz	40	45		dB
770 ~ 780 MHz	30	45		dB
832 ~ 862 MHz	29	36		dB
862 ~ 880 MHz	47	54		dB
880 ~ 1710 MHz	35	42		dB
1710 ~ 1785 MHz	35	41		dB
1785 ~ 2500 MHz	30	35		dB
2500 ~ 3000 MHz	30	33		dB
3000 ~ 6000 MHz	23	27		dB
Input / Output Impedance (Nominal)	50			Ω
Operating Temp.	-40		125	°C
Input Power			32	dBm

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

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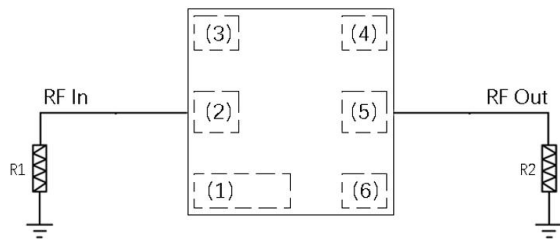
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Pin Configuration



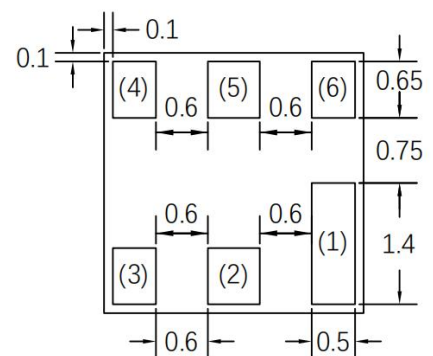
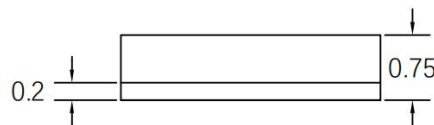
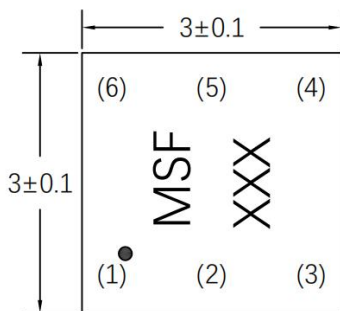
Pin No.	Label
1/3/4/6	GND
2	RF In
5	RF Out

Outline Drawing

Top View

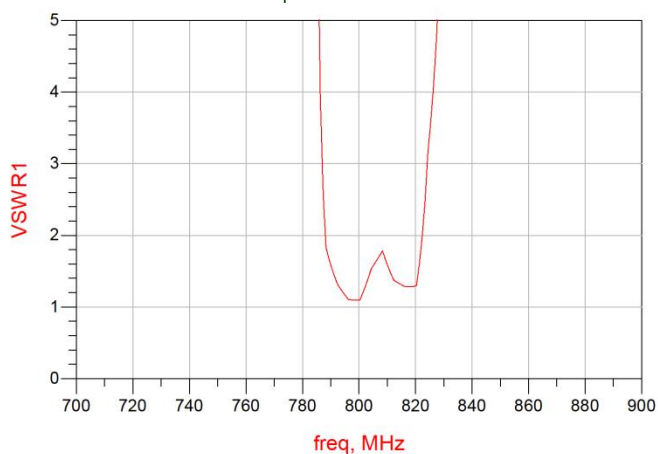
Side View

Bottom View

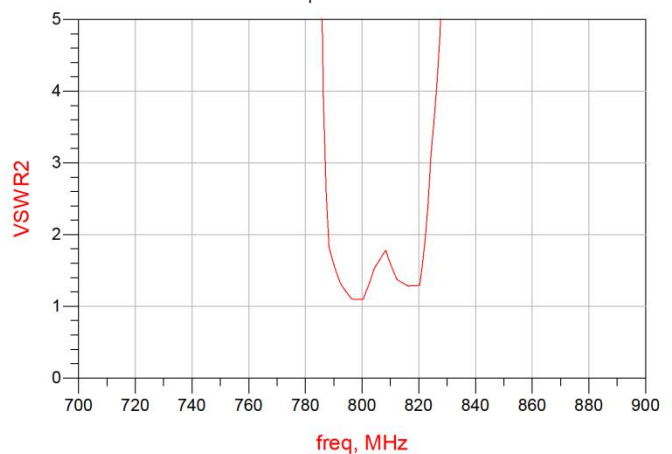


Typical Performance (Temp = +25 °C, 50 Ω system)

Input Return Loss



Output Return Loss



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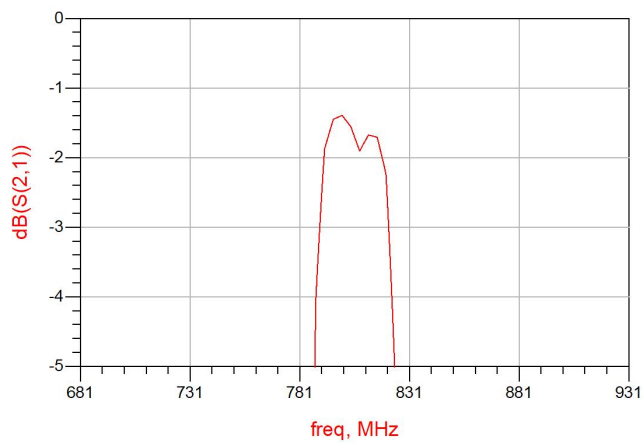
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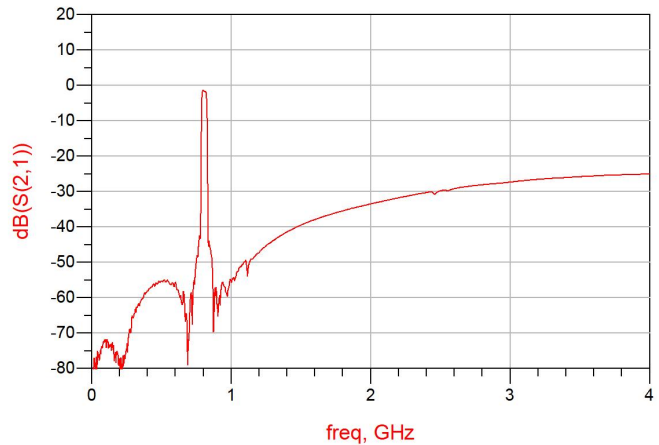


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Insertion Loss

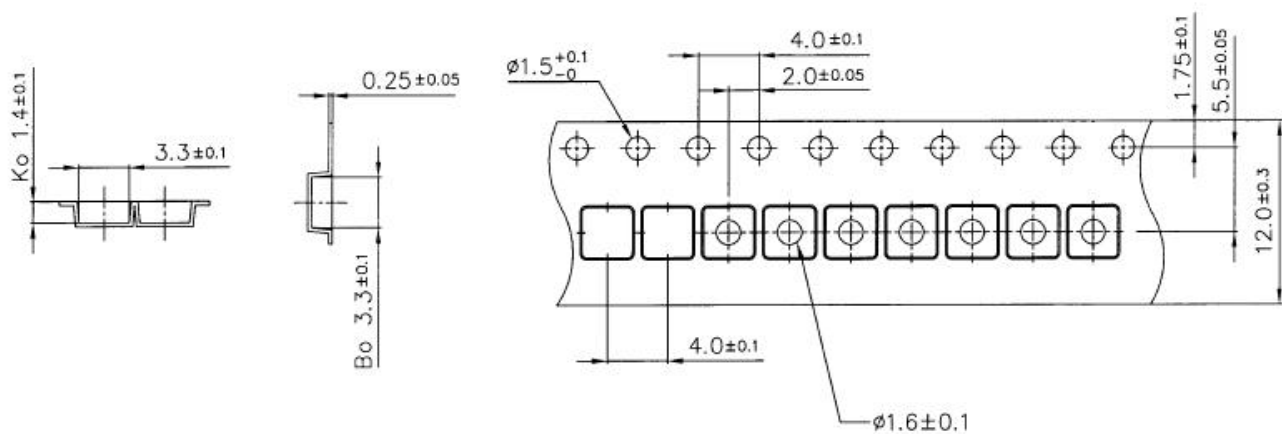


Attenuation



Packaging and Ordering Information

Figure 9. MSF0806D33 Packaging Specifications



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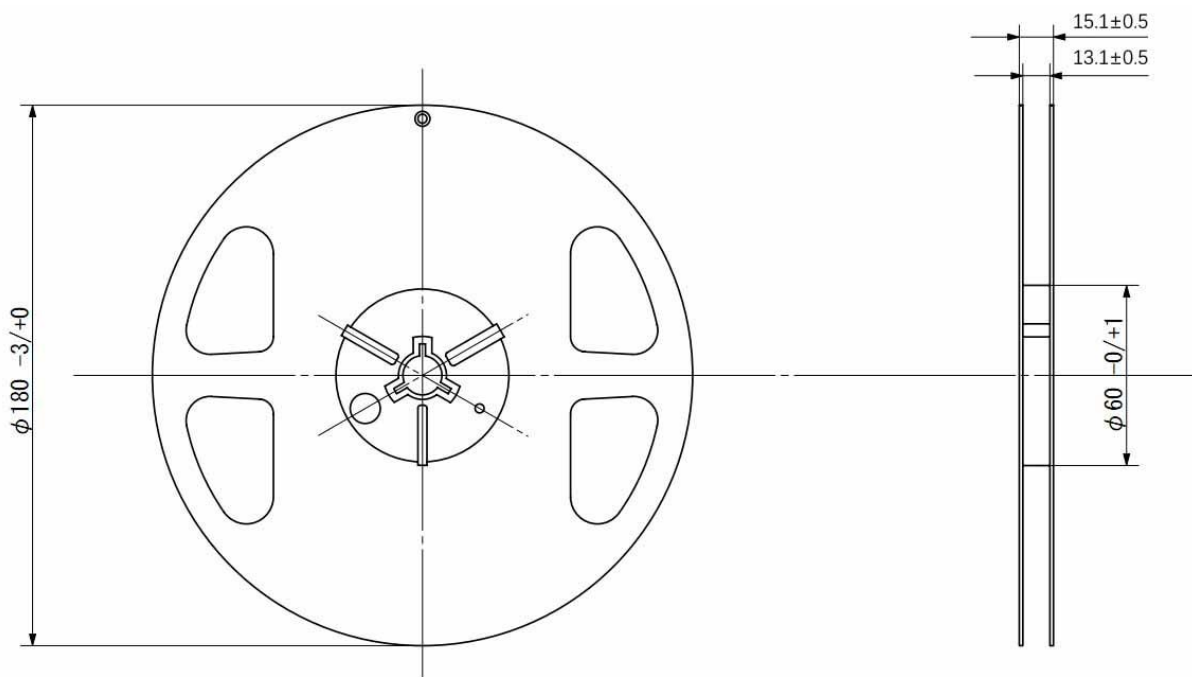
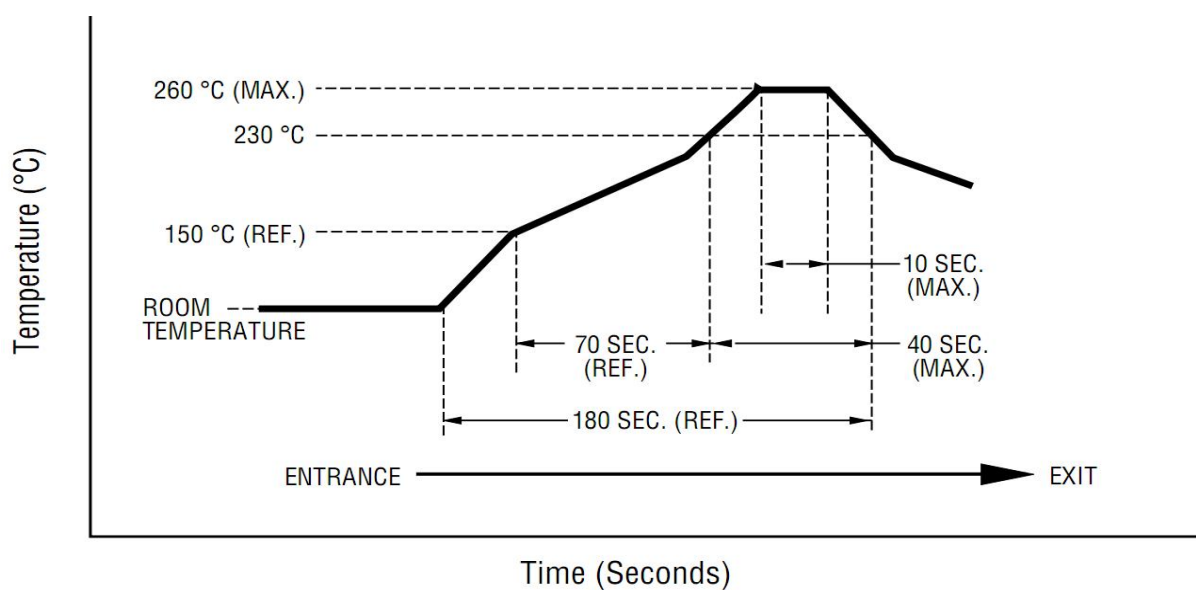


Table 2. MSF0806D33 Ordering Information

Device	Package	Reel	Shipping
MSF0806D33	3*3mm	7"	2000/Reel

Recommended Reflow Solder Profile

Figure 10. MSF0806D33 Recommended Reflow Solder Profile



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Revision	Description	Date
Rev0	Preliminary	2025/12/04
Rev1		2026/02/26

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