

MSF0947D33

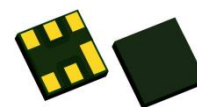
Band 8 SAW Band Pass Filter



MECSINE 兆讯

Applications

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



Features

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

Description

MSF0947D33 is a band 8 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 MSF0947D33 uses advanced module packing techniques to achieve the industry standard 3.0x3.0mm package.

Electrical Specification

Characteristic	Minimum	Typical	Maximum	Units
Insertion Loss(935~ 960 MHz)		1.5	2.5	dB
Group Delay Ripple(935~ 960 MHz)		50	100	ns
VSWR(935~ 960 MHz)		1.5	2.0	
Absolute Attenuation				
0 ~ 700 MHz	45	52		dB
700 ~ 910MHz	45	52		dB
910 ~ 925 MHz	25	40		dB
975 ~ 1000 MHz	20	25		dB
1000 ~ 2000 MHz	40	50		dB
2000 ~ 3000 MHz	25	33		dB
Amplitude Ripple(935~ 960 MHz)		0.9	2	dB
Input / Output Impedance (Nominal)	50			Ω
Operating Temp.	-40		125	°C
Input Power			10	dBm

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

All Use For RF & Microwave

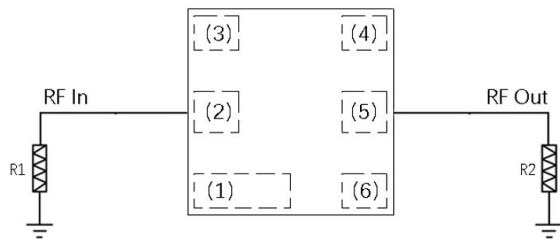
MSF0947D33

Band 8 SAW Band Pass Filter



MECSINE 兆讯

Pin Configuration



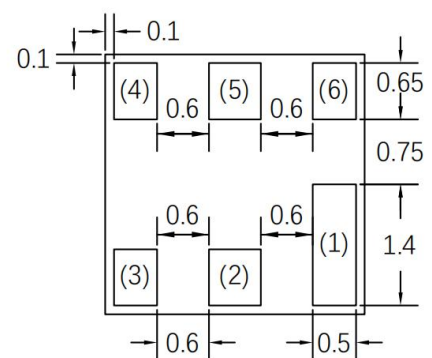
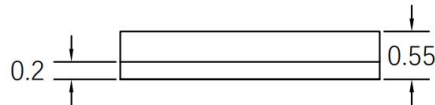
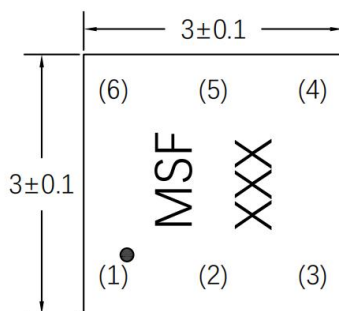
Pin No.	Label
1/3/4/6	GND
2	RF In
5	RF Out

Outline Drawing

Top View

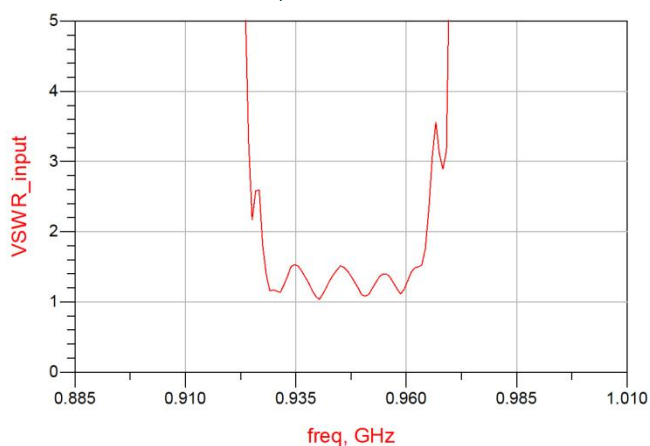
Side View

Bottom View

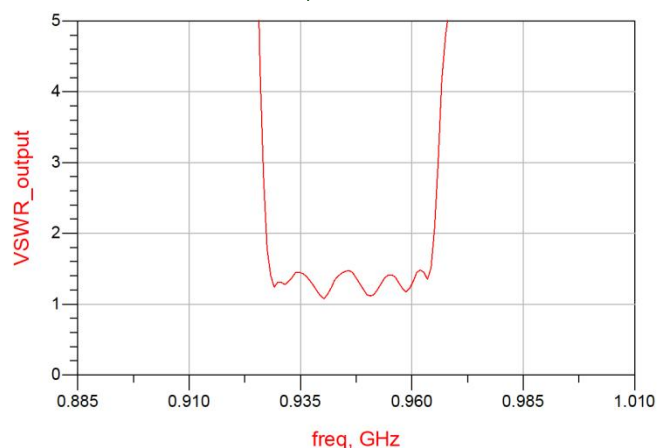


Typical Performance (Temp = +25 °C, 50 Ω system)

Input Return Loss



Output Return Loss



All Use For RF & Microwave

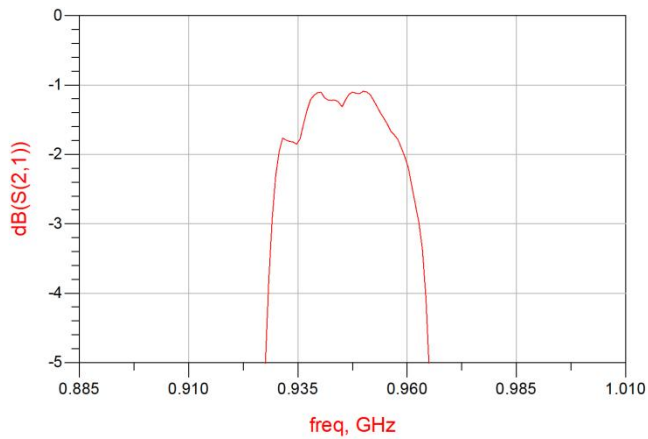
MSF0947D33

Band 8 SAW Band Pass Filter

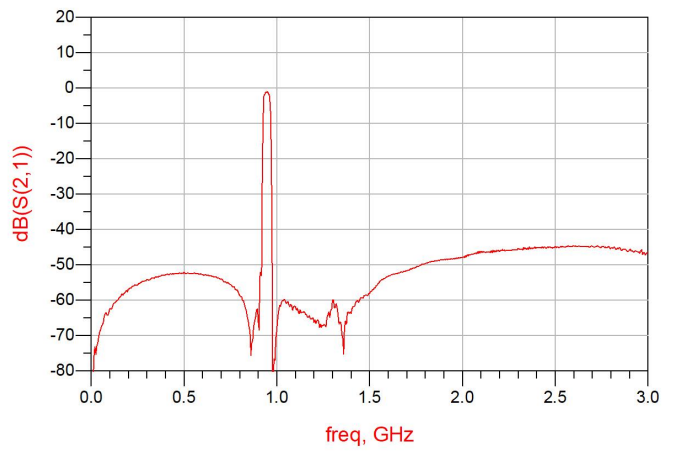


MECSINE 兆讯

Insertion Loss

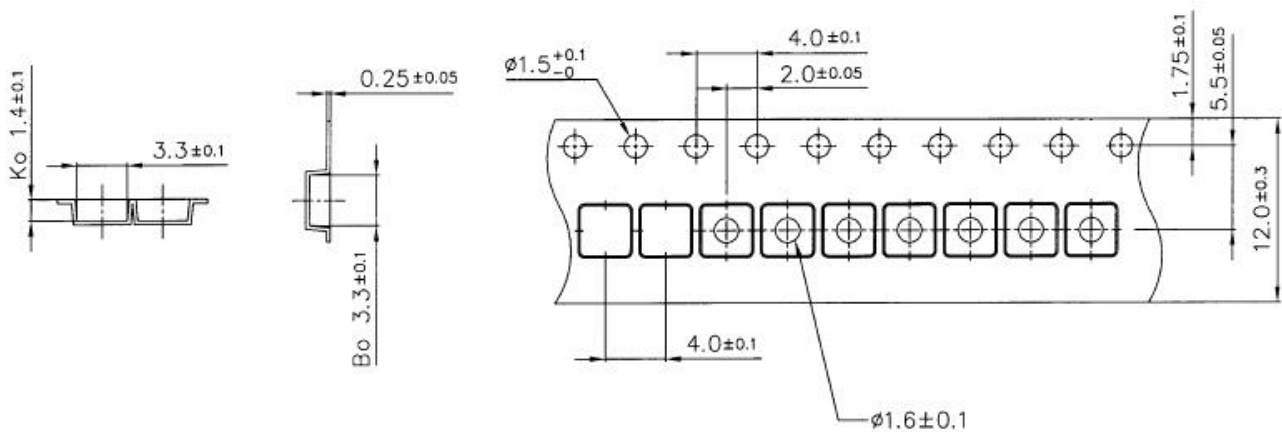


Attenuation



Packaging and Ordering Information

Figure 9. MSF0947D33 Packaging Specifications



All Use For RF & Microwave

MSF0947D33

Band 8 SAW Band Pass Filter



MECSINE 兆讯

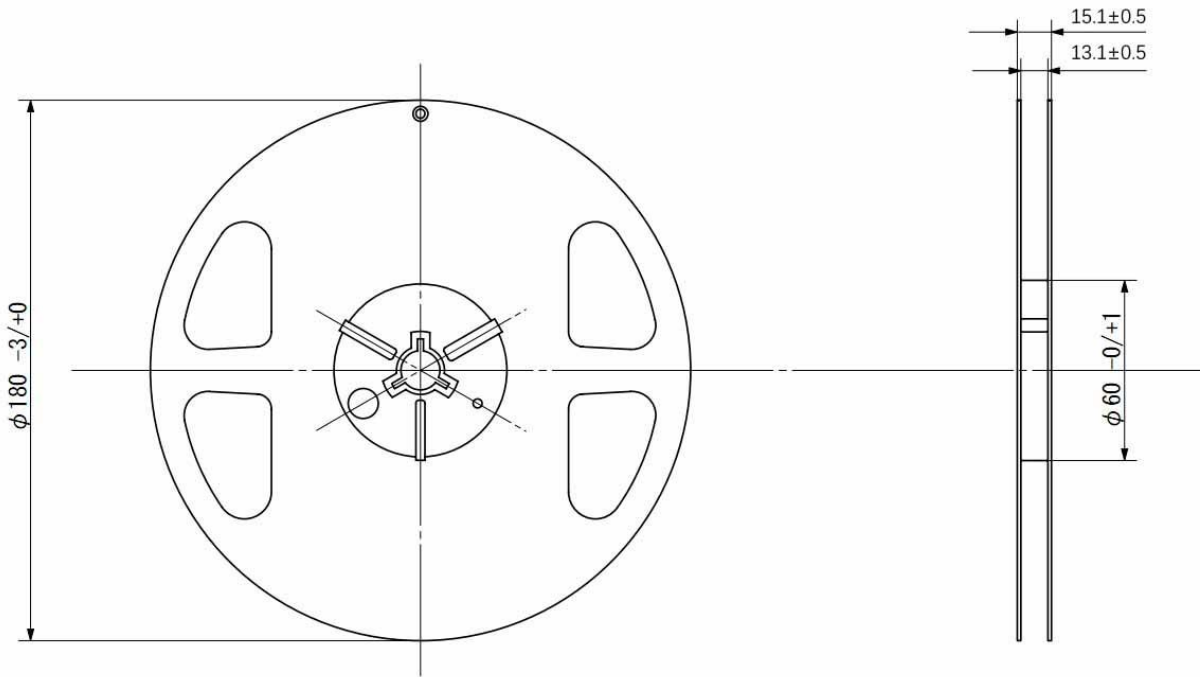
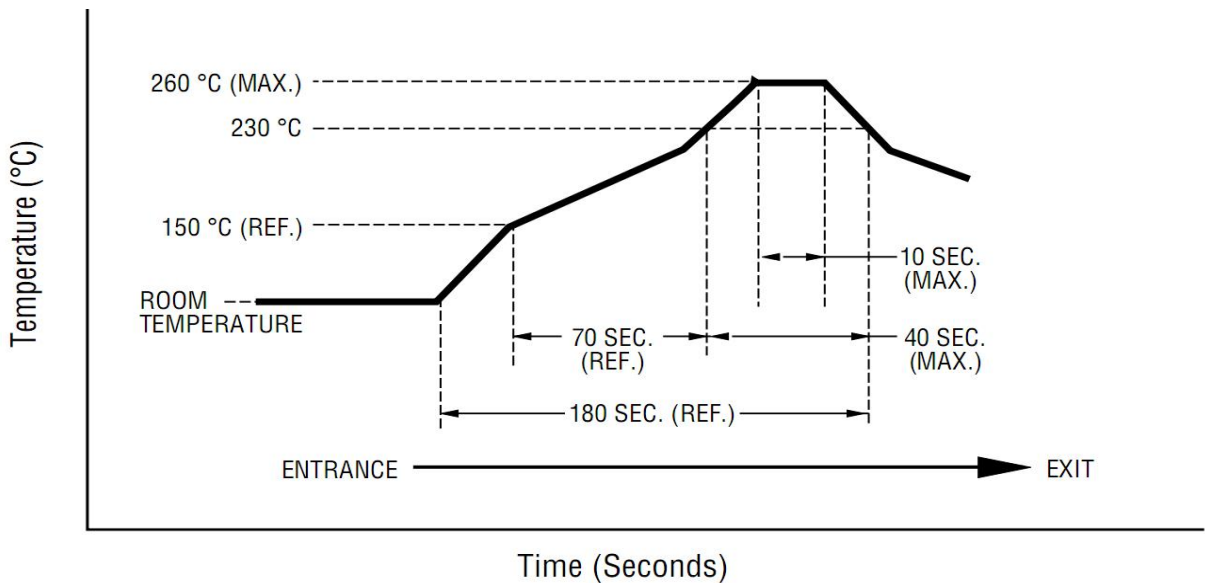


Table 2. MSF0947D33 Ordering Information

Device	Package	Reel	Shipping
MSF0947D33	3*3mm	7"	2000/Reel

Recommended Reflow Solder Profile

Figure 10. MSF0947D33 Recommended Reflow Solder Profile



All Use For RF & Microwave

MSF0947D33

Band 8 SAW Band Pass Filter



MECSINE 兆讯

Revision	Description	Date
Rev0	Preliminary	2026/02/25

All Use For RF & Microwave