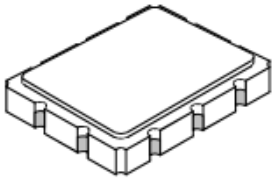
RFMi
A BRAND OF AKOUSTIS

RoHS compliant

SF2515A

611 MHz SAW Filter



SM9171-10

- ***High Performance SAW Filter***
- ***Low Passband Loss***
- ***9 x 7 mm Surface-mount Case***
- ***Complies with Directive 2002/95/EC (RoHS)***

Absolute Maximum Ratings

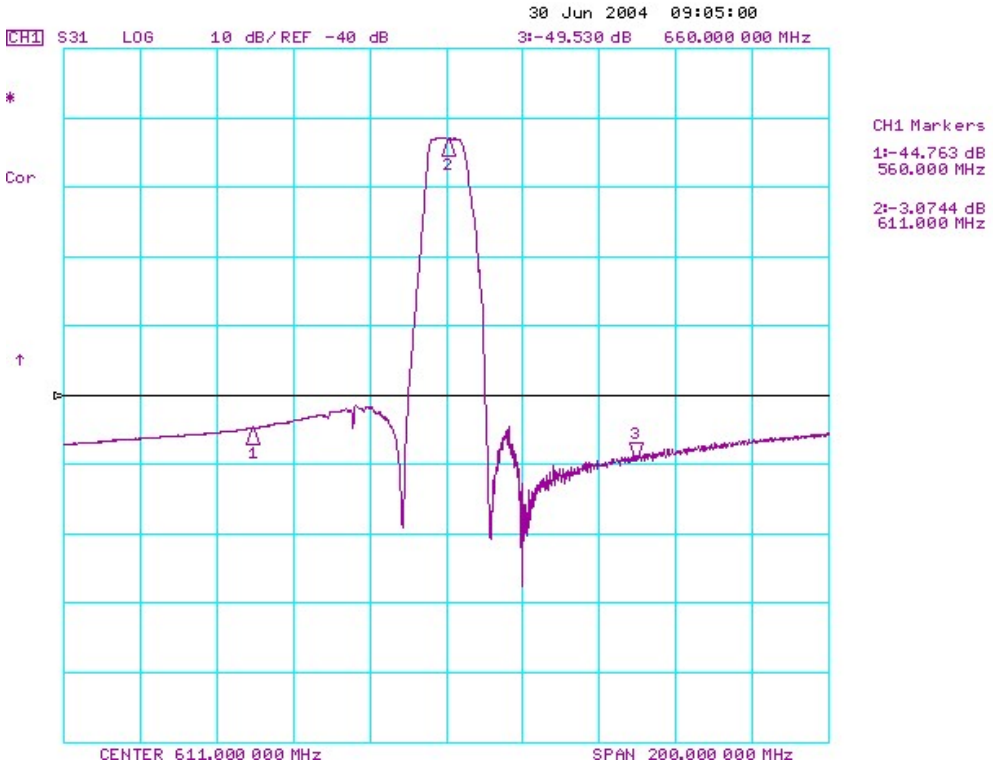
Rating	Value	Units
Maximum Input Power Level	10	dBm
DC Voltage	3	VDC
Operable Temperature Range	-20 to +70	ºC
Storage Temperature Range	-40 to +85	ºC
ESD 50V (MM), 100V (HBM)		
Moisture Sensitivity Level: 1		
Case Style: SM9171-10 (9.1 x 7.1 nominal footprint)		

Electrical Characteristics

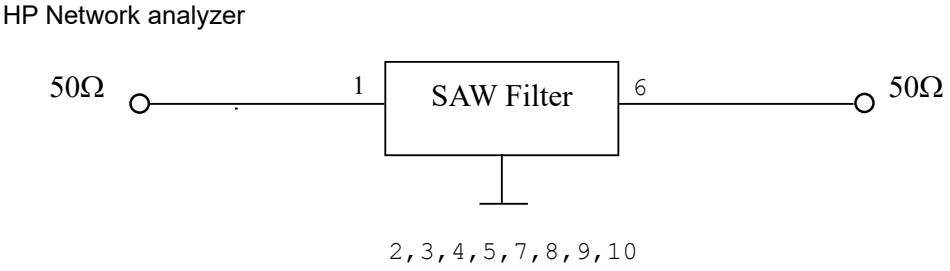
Item		Unit	Min.	Type.	Max.
Center frequency	Fc	MHz	-	611	-
Insertion Loss	IL_{min} (reference level)	dB	-	2.95	4.5
3dB Bandwidth	BW_{-3dB}	MHz	7	9.8	-
40dB Bandwidth	BW_{-40dB}		-	20.5	24
Amplitude Ripple	609.5~ 612.5 MHz	dB	-	0.4	1.3
Rejection:(Reference level from 0dB)					
520 to 560	MHz	dB	38	44	-
660 to 700	MHz	dB	38	45	-
Source impedance	Zs	Ω	-	50	-
Load impedance	Z_L	Ω	-	50	-

Note: IL_{min} is the minimum of the pass band attenuation. The center frequency F_c is the mean value of the upper and lower frequencies at the 3dB filter attenuation level relative to the IL_{min}.

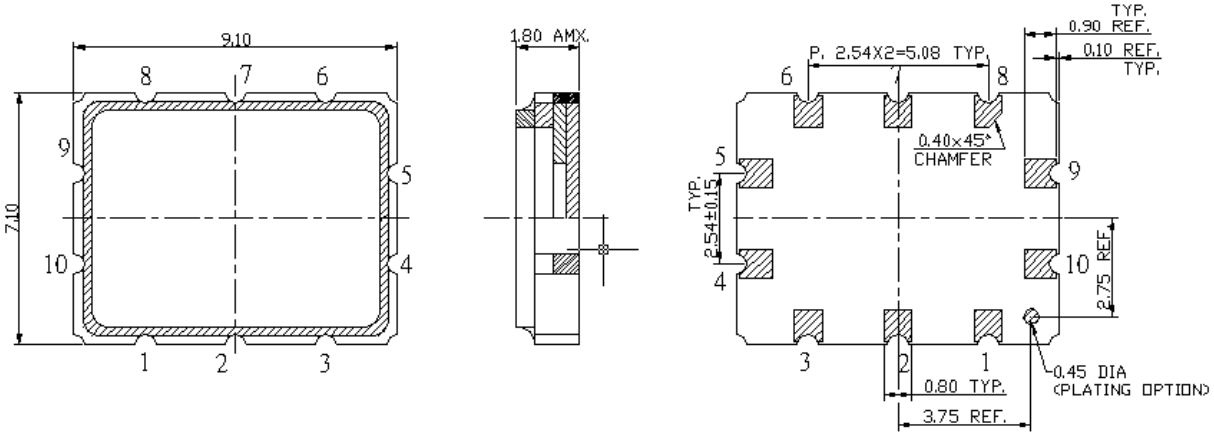
Frequency Characteristics



Measurement Circuit



Outline Drawing

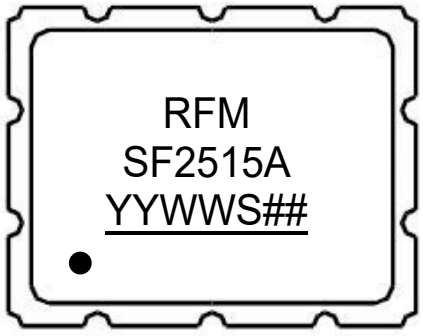


#1: Input

#6: Output

#2,3,4,5,7,8,9,10: Ground

Unit: mm

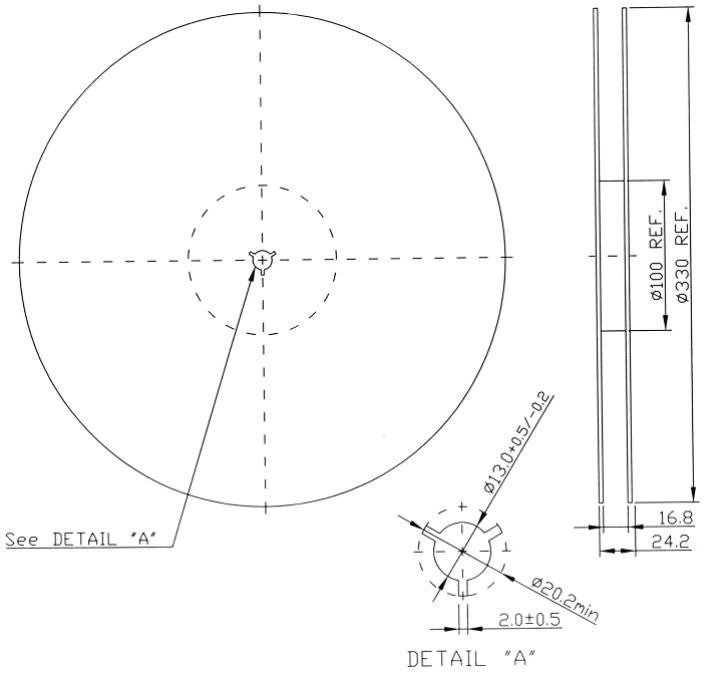


YY = Year, WW = Week, S = Shift, ## = Sequence Code

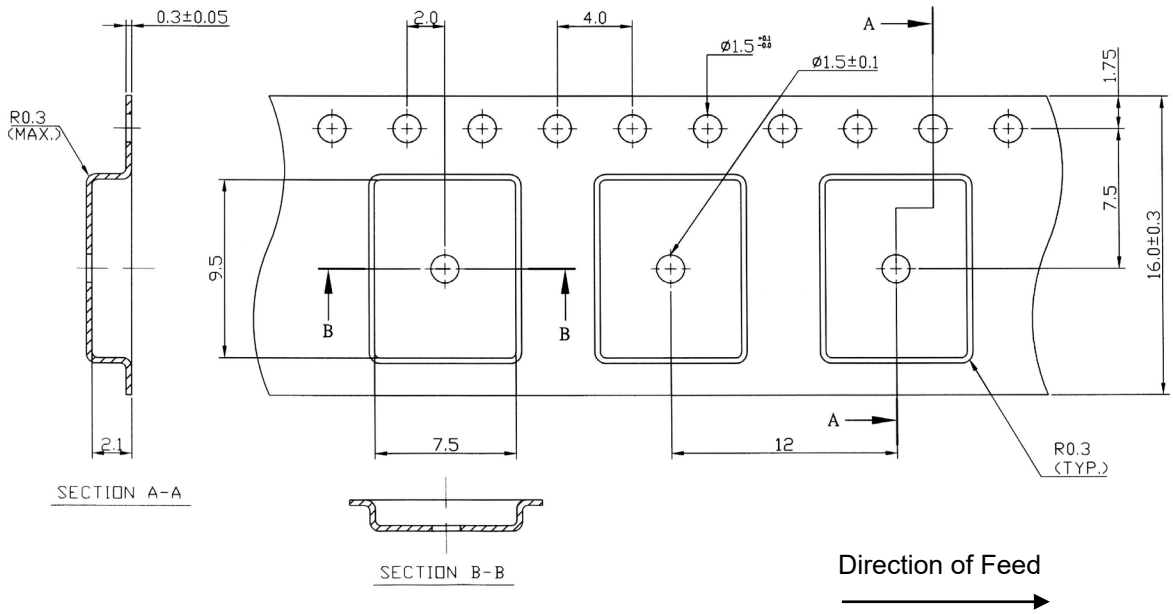
Reel Dimensions

Tape and Reel Standard per ANSI/EIA-481

Reel Count
7" = 250
13" = 1000



Tape Dimensions:



Recommended Reflow Profile

1. Preheating shall be fixed at 150~180ºC for 60~90 seconds.
2. Ascending time to preheating temperature 150ºC shall be 30 seconds min.
3. Heating shall be fixed at 220ºC for 50~80 seconds and at 260ºC +0/-5ºC peak (10 seconds).
4. Time: 5 times maximum.