THE DATASHEET OF

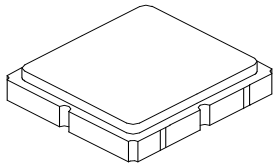
SF1192B

RFMi
A BRAND OF AKOUSTIS

SF1192B

1842.5 MHz SAW Filter

- ***RF Filter for Mobile Communication Applications***
- ***No Matching Circuit Required***
- ***3.0 x 3.0 x 1.3 mm Package***
- ***Complies with Directive 2011/65/EU (RoHS)***
- ***Moisture Sensitivity Level: 1***



SM3030-6

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power	+10	dBm
DC voltage between Terminals	0	VDC
Operable Temperature Range	-45 to +125	°C
Storage Temperature	-40 to +85	°C
Suitable for lead-free soldering - Max Soldering Temperature	260°C for 30 s	

Electrical Characteristics

Characteristic		Sym	Notes	Min	Typ	Max	Units
Nominal Operating Frequency		f_C			1842.5		MHz
Passband	Insertion Loss across Fc+/ -37.5 MHz	IL			2.2	3.8	dB
	Amplitude Ripple p-p across Fc+/ -37.5 MHz				1.3	2.3	dB
Attenuation	1542.5 ~ 1600 MHZ			20.0	24.5		dB
	1600 ~ 1710 MHZ			22.0	25.0		dB
	1710 ~ 1785 MHZ			10.0	23.5		dB
	1920 ~ 2142.5 MHZ			25.0	28.0		dB
VSWR across Fc +/ -37.5 MHz					1.9	2.6	
Source impedance		Z_S			50		Ω
Load impedance		Z_L			50		Ω
Specification Temperature Range		T_A		-30		+85	°C

Case Style	SM3030-6 3 x 3 mm Nominal Footprint
Lid Symbolization (Y=year, WW=week, S=Shift)	454 YWWS
Standard Reel Quantity Reel Size 7 Inch	500 Pieces Per Reel
Reel Size 13 Inch	3000 Pieces Per Reel

Electrical Connections

Connection	Terminals
Input	2
Output	5
Ground	All others

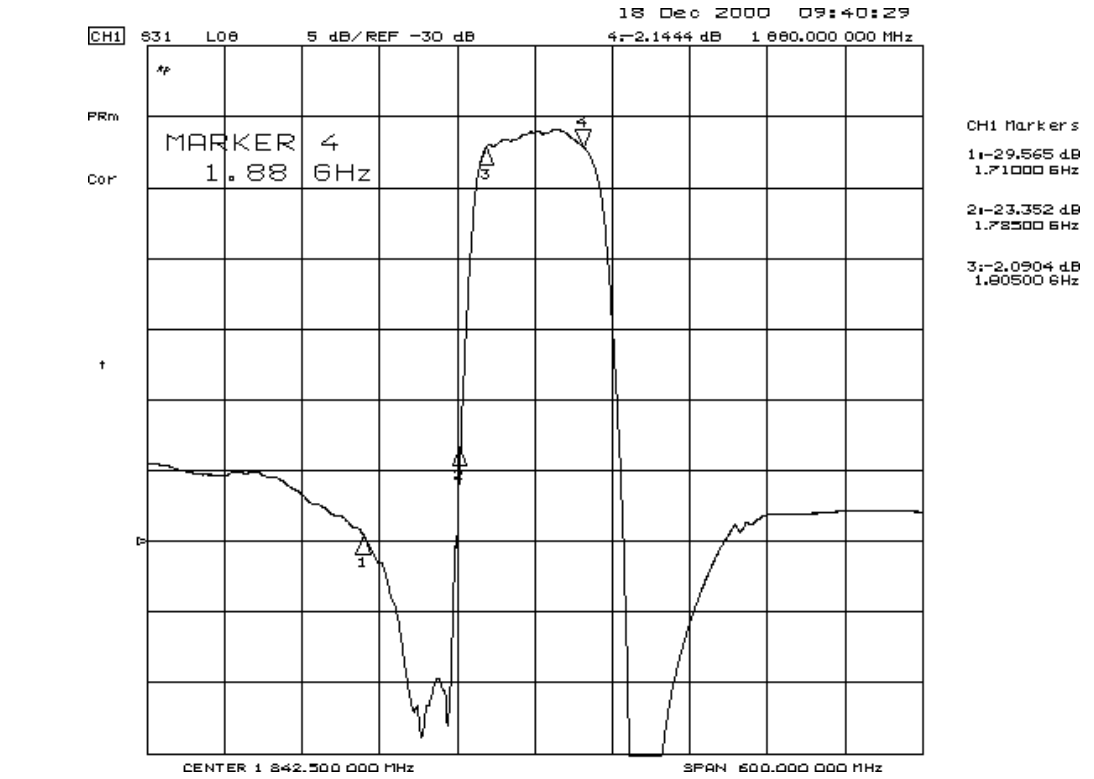
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

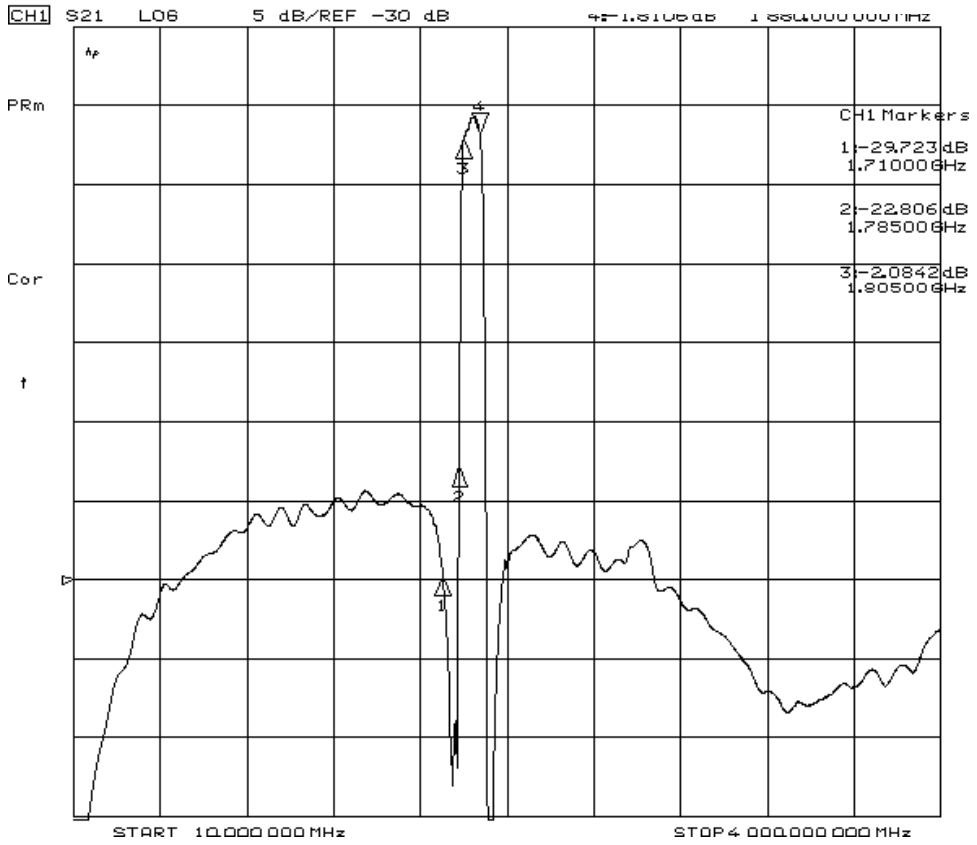
NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

Frequency Characteristics:

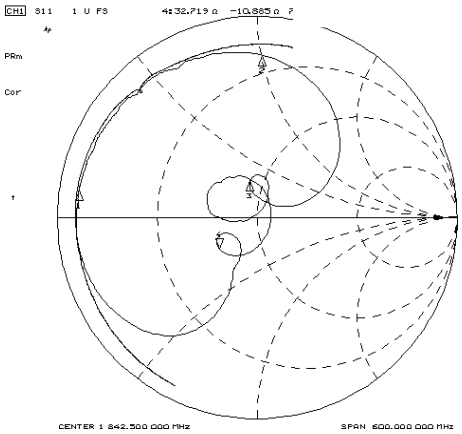
Transfer Function

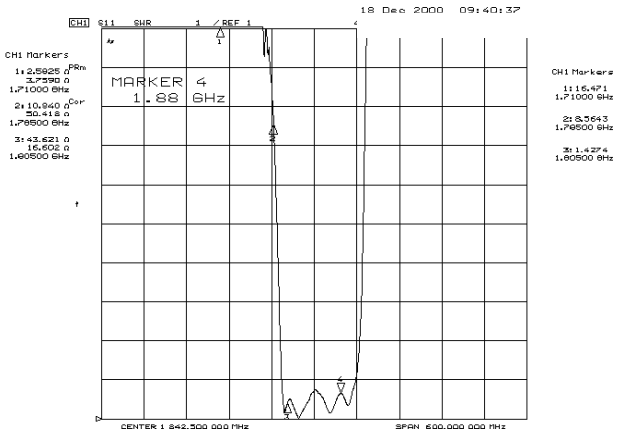




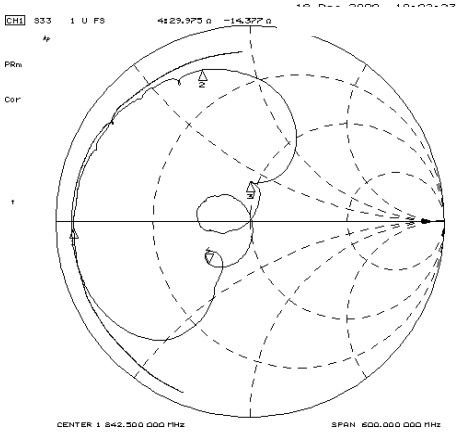
Reflections Functions:

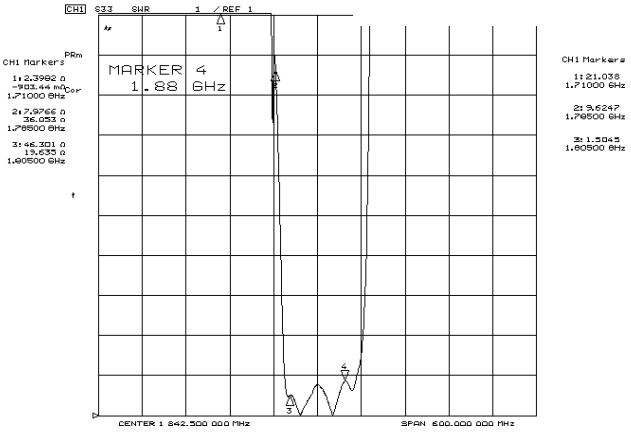
S11 VSWR





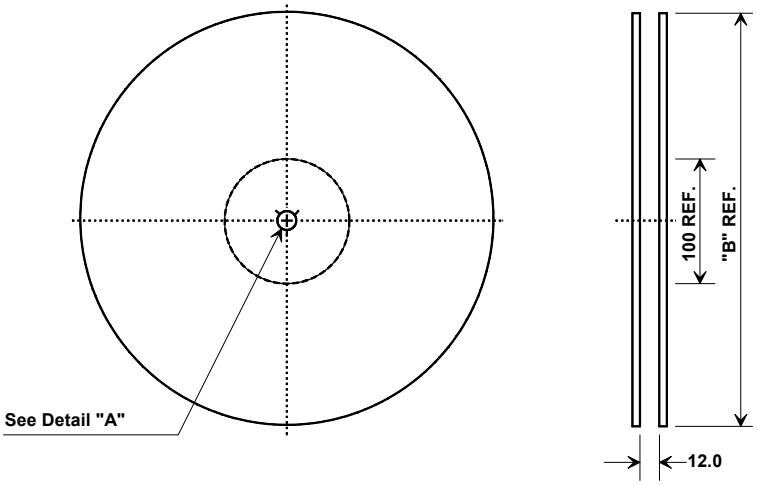
S22 VSWR



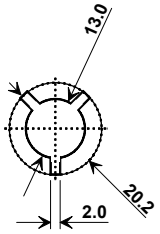


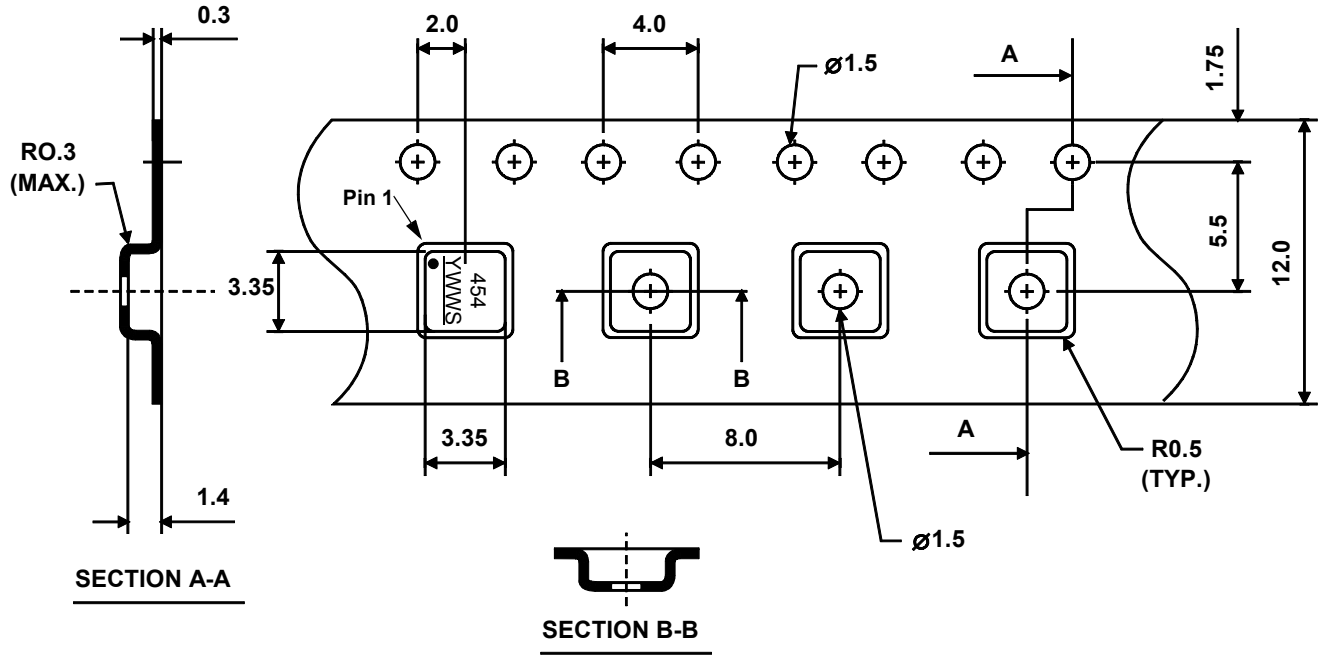
Tape and Reel Specifications

Tape and Reel Standard per ANSI/EIA-481



"B " Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000

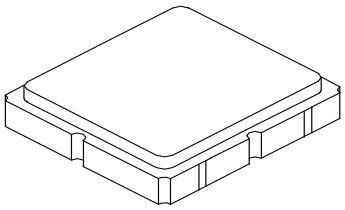




SM3030-6 Case

6-Terminal Ceramic Surface-Mount Case

3.0 X 3.0 mm Nominal Footprint



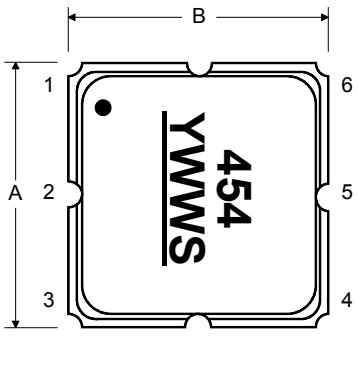
Case Dimensions

Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.00	3.13	0.113	0.118	0.123
B	2.87	3.00	3.13	0.113	0.118	0.123
C	1.12	1.25	1.38	0.044	0.049	0.054
D	0.77	0.90	1.03	0.030	0.035	0.040
E	2.67	2.80	2.93	0.105	0.110	0.115
F	1.47	1.60	1.73	0.058	0.063	0.068
G	0.72	0.85	0.98	0.028	0.033	0.038
H	1.37	1.50	1.63	0.054	0.059	0.064
I	0.47	0.60	0.73	0.019	0.024	0.029
J	1.17	1.30	1.43	0.046	0.051	0.056

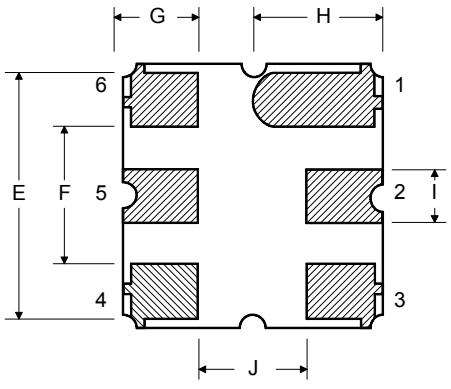
Electrical Connections

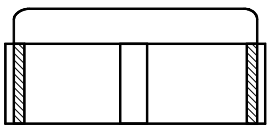
Connection		Terminals
Port 1	Single Ended Input	2
Port 2	Single Ended Output	5
	Ground	All others
Single Ended Operation Only		
Dot indicates Pin 1		

TOP VIEW



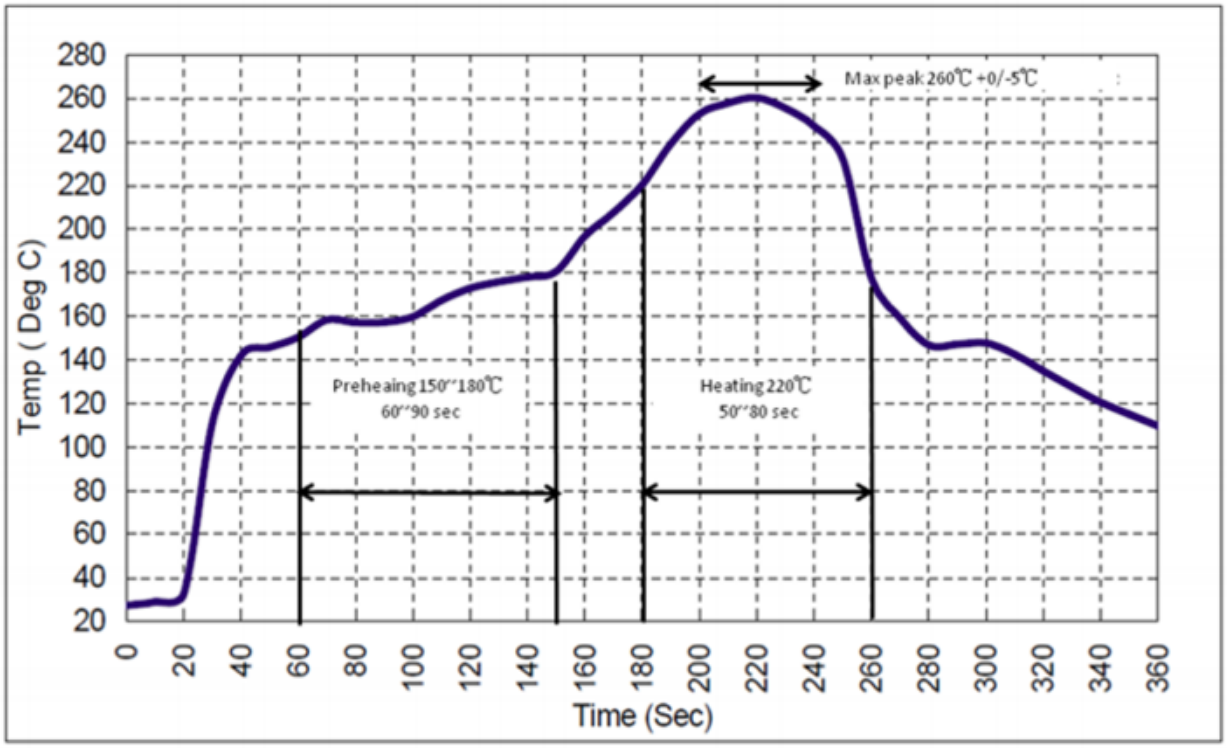
BOTTOM VIEW





Recommended Reflow Profile

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



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