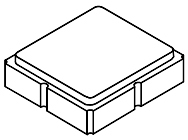
RFMi
BRAND OF AKOUSTIS

RoHS compliant

SF2207E

800.000 MHz SAW Filter



SM3030-8

MAXIMUM RATING:

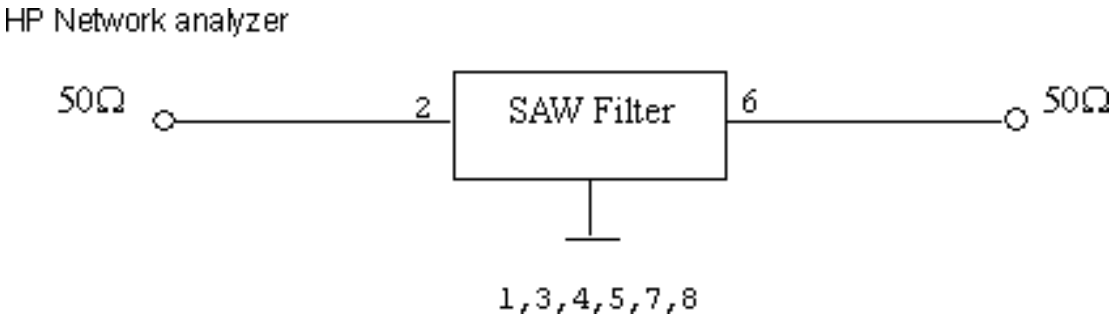
- Input Power Level: 5 dB_m
- DC voltage: 5 V
- Operating Temperature: -30°C to 70°C
- Storage Temperature: -40°C to +85°C
- AEC-Q200 Qualified
- Moisture Sensitivity Level: 1

CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency	Fc MHz		-	800	-
Insertion loss	790 ~ 810 MHz **IL**	dB	-	2.4	3.8
Amplitude ripple	790 ~ 810 MHz	dB	-	0.8	2.0
Attenuation (Reference level from 0dB)					
600 ~ 700	MHz	dB	40	47	-
700 ~ 750	MHz	dB	30	45	-
860 ~ 900	MHz	dB	30	42	-
900 ~ 1000	MHz	dB	38	47	-
Source impedance	Z_S	Ω	-	50	-
Load impedance	Z_L	Ω	-	50	-

Note1. No matching network required for operation at 50Ω

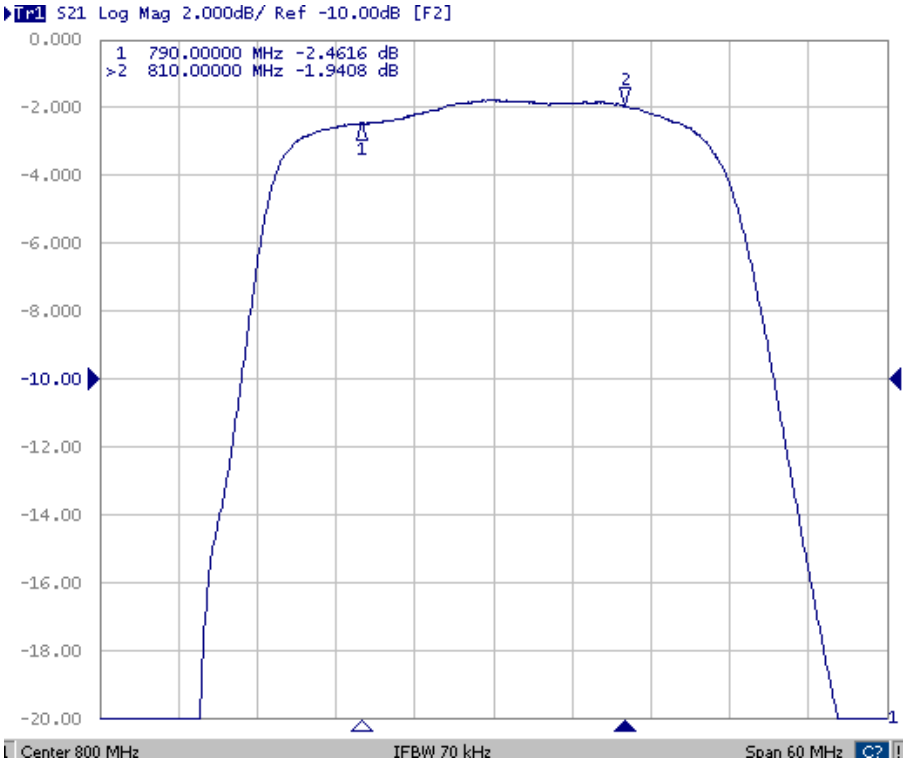
MEASUREMENT CIRCUIT:



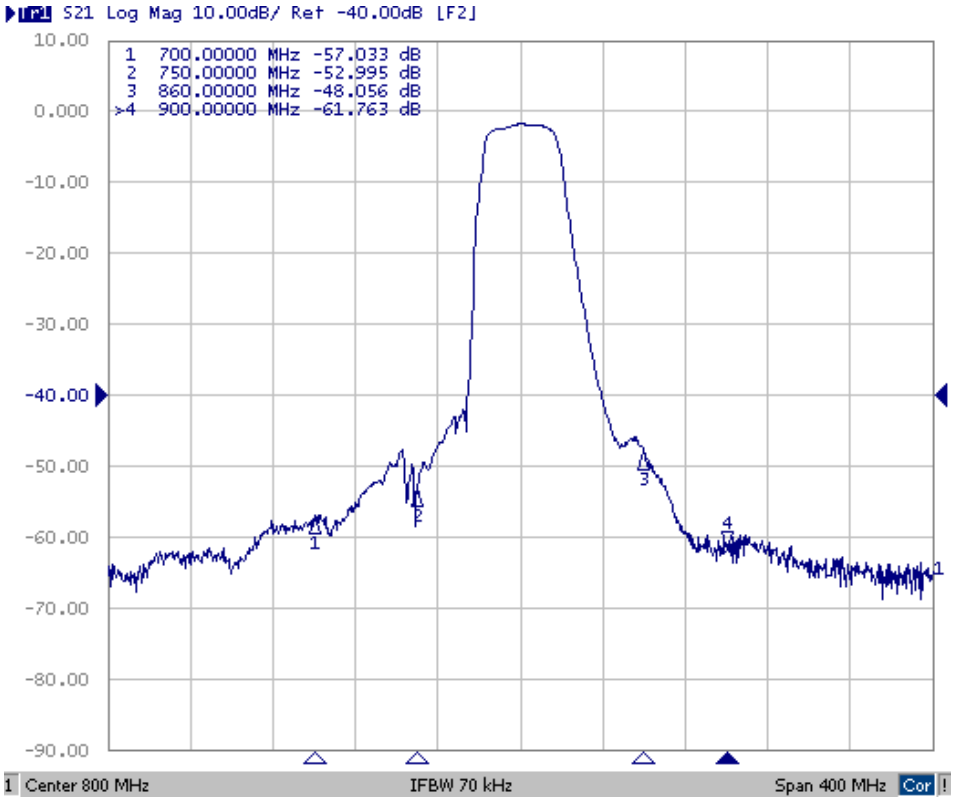
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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.

Transfer Function :

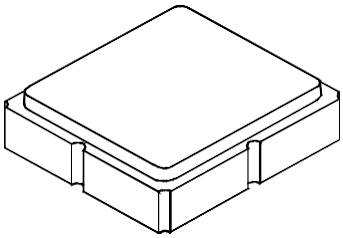


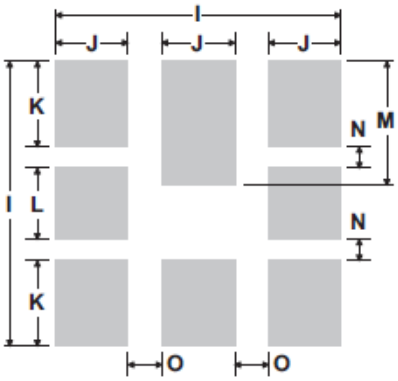
Wideband



OUTLINE DRAWING:

8-Terminal Ceramic Surface-Mount Case
3.0 X 3.0 mm Nominal Footprint





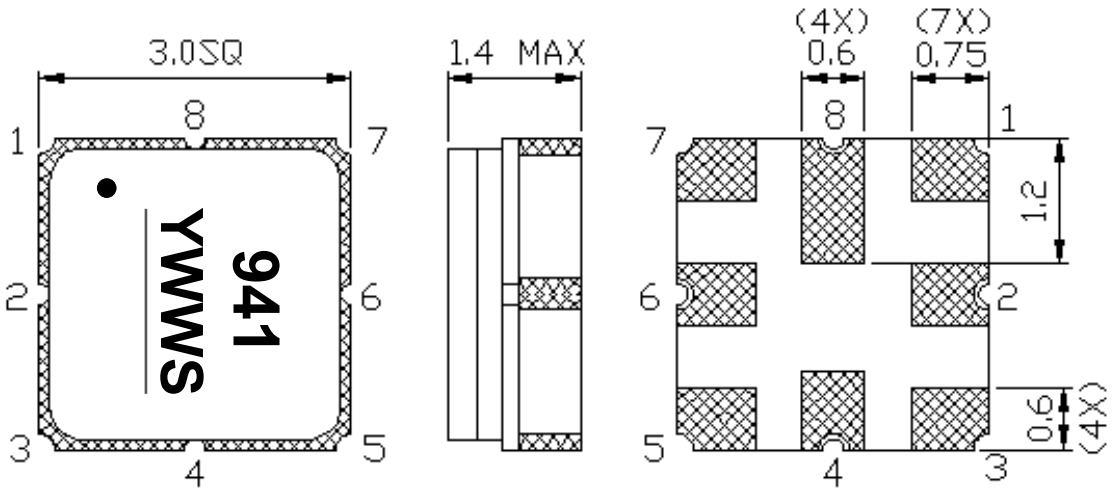
PCB Footprint Top View

Case and PCB Footprint Dimensions

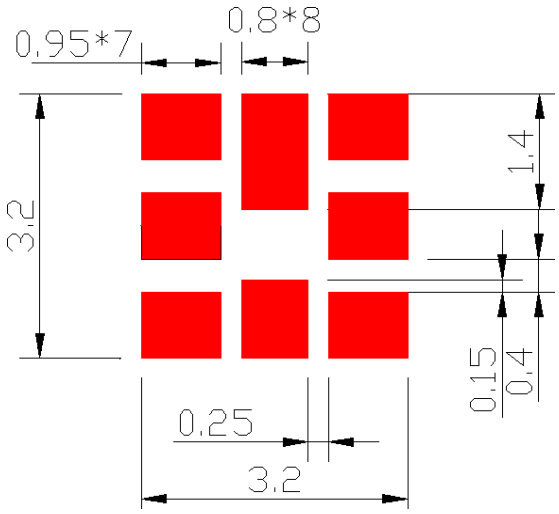
Dimension	mm			Inches		
	Min	Nom	Max	Min	Nom	Max
A	2.87	3.00	3.13	0.113	0.118	0.123
B	2.87	3.00	3.13	0.113	0.118	0.123
C	-	-	1.4	-	-	0.043
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
H	1.07	1.20	1.33	0.042	0.047	0.052
I		3.19			0.126	
J		0.81			0.032	
K		0.96			0.038	
L		0.81			0.032	
M		1.39			0.055	
N		0.23			0.009	
O		0.38			0.015	

Case Materials

Materials	
Solder Pad Plating	0.3 to 1.0 µm Gold over 1.27 to 8.89 µm Nickel
Lid Plating	2.0 to 3.0 µm Nickel
Body	Al_2O_3 Ceramic



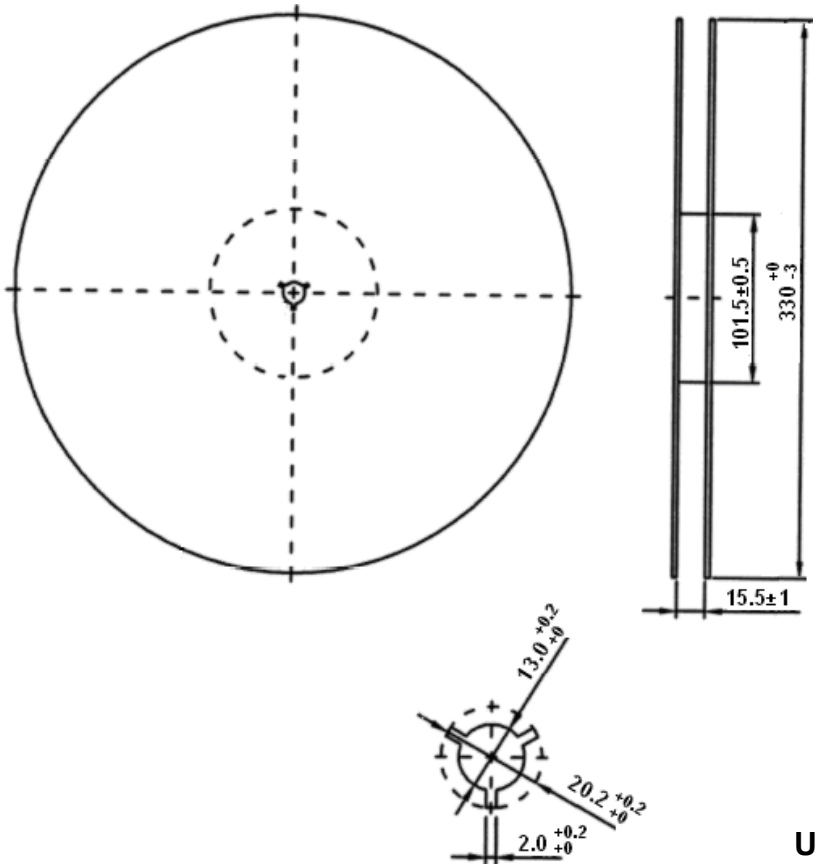
PCB FOOTPRINT:



PACKING:

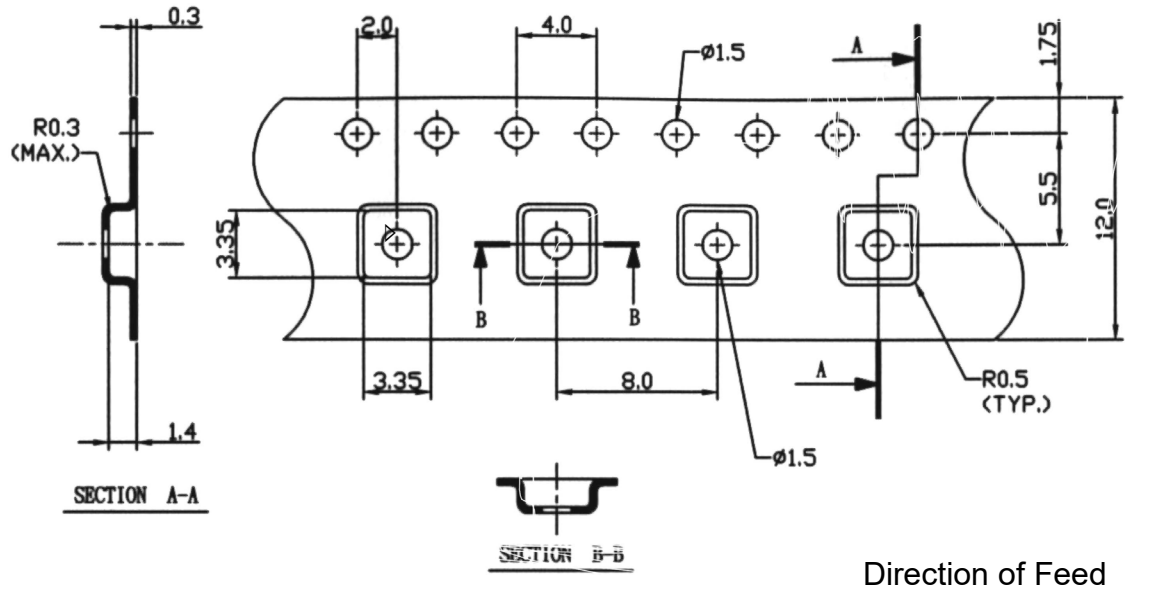
1. REEL DIMENSION

Reel Count:
7" = 500
13" = 3000



Unit: mm

2. TAPE DIMENSION



RECOMMENDED REFLOW PROFILE:

1. Preheating shall be fixed at 150~180℃ for 60~90 seconds.
2. Ascending time to preheating temperature 150℃ shall be 30 seconds min.
3. Heating shall be fixed at 220℃ for 50~80 seconds and at 260℃+0/-5℃ peak (20~40sec).
4. Time: 2 times.