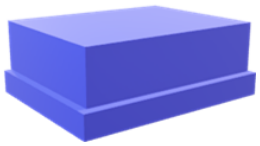
RFMi
BRAND OF AKOUSTIS

RoHS compliant

SF2566L

780.5 MHz SAW Filter



SM1109

MAXIMUM RATING:

- Maximum Input Power: 10 dBm
- DC voltage: 0 V
- Operating Temperature: -40°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitive Level: MSL3

ELECTRICAL CHARACTERISTICS:

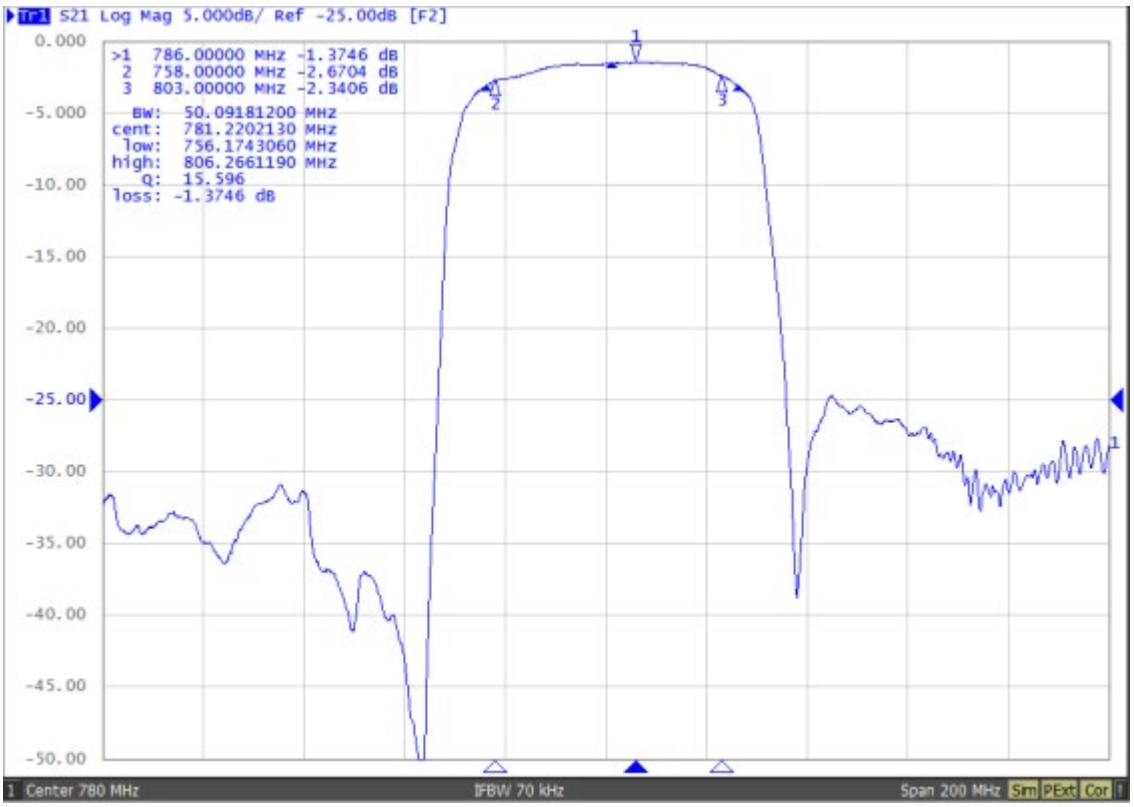
Item	Unit	Min.	Typ.	Max.	Note
Center frequency	MHz	-	780.5	-	
Insertion Loss (758 ~ 803 MHz)	dB	-	2.0	3.0	0℃ ~ 40℃
Insertion Loss (758 ~ 803 MHz)	dB	-	2.0	3.5	
Amplitude Ripple (758 ~ 803 MHz)	dB_{p-p}	-	0.8	2.0	
VSWR (758 ~ 803 MHz)	-	-	1.9	2.2	
Attenuation (reference level from 0 dB)					
80 ~ 703 MHz	dB	22	27	-	
703 ~ 733 MHz	dB	25	30	-	
733 ~ 745 MHz	dB	25	30	-	0 ~ 40℃
733 ~ 745 MHz	dB	20	30	-	
825 ~ 915 MHz	dB	20	25	-	
1516 ~ 1915 MHz	dB	22	27	-	
1920 ~ 2025 MHz	dB	22	27	-	
2274 ~ 2500 MHz	dB	20	25	-	
4900 ~ 6000 MHz	dB	12	17	-	
Temperature Coefficient of Frequency	ppm/℃	-	-36	-	

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.

Frequency Characteristics:

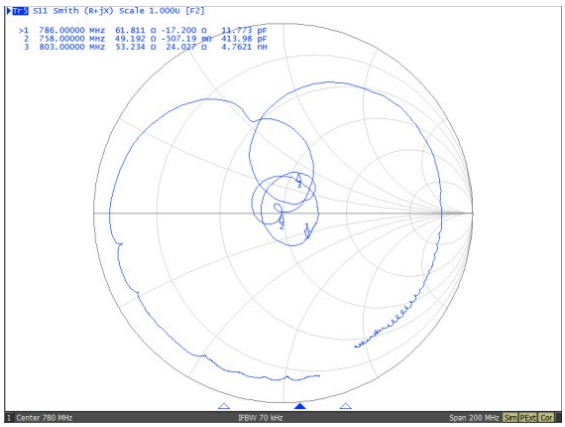
Span 200 MHz

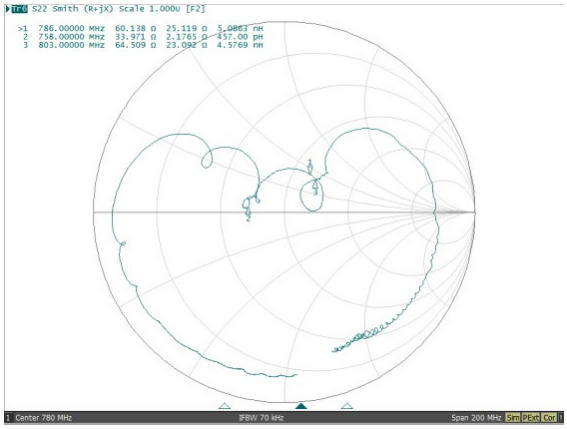


S21dB Span 8500 MHz

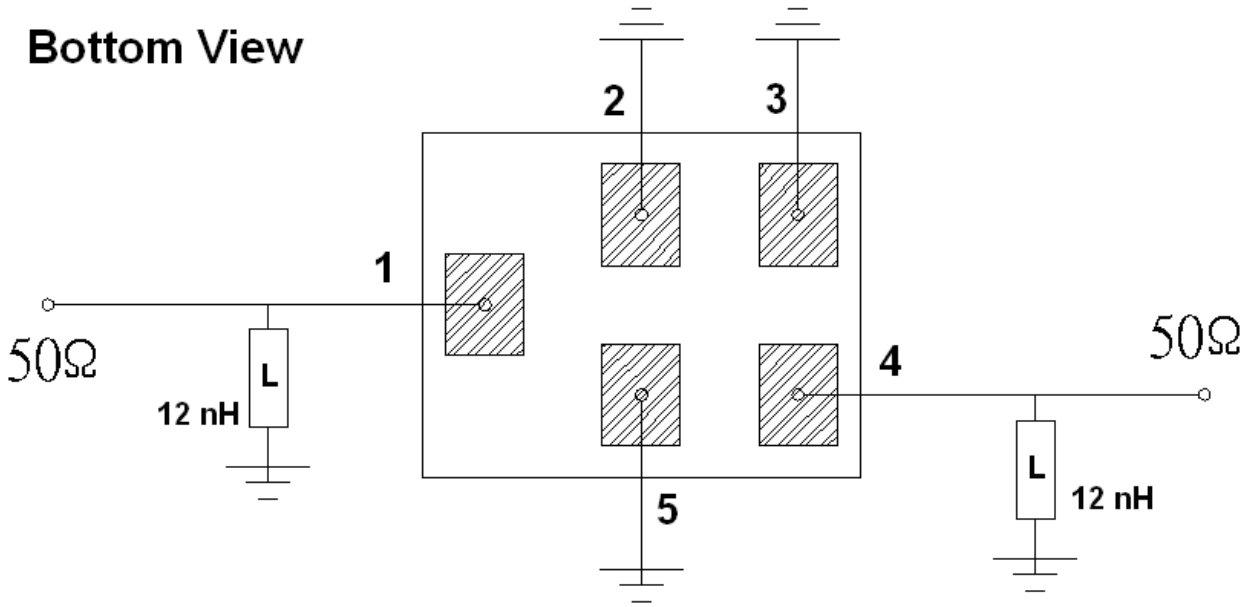
Span 100 MHz

Reflective Characteristic





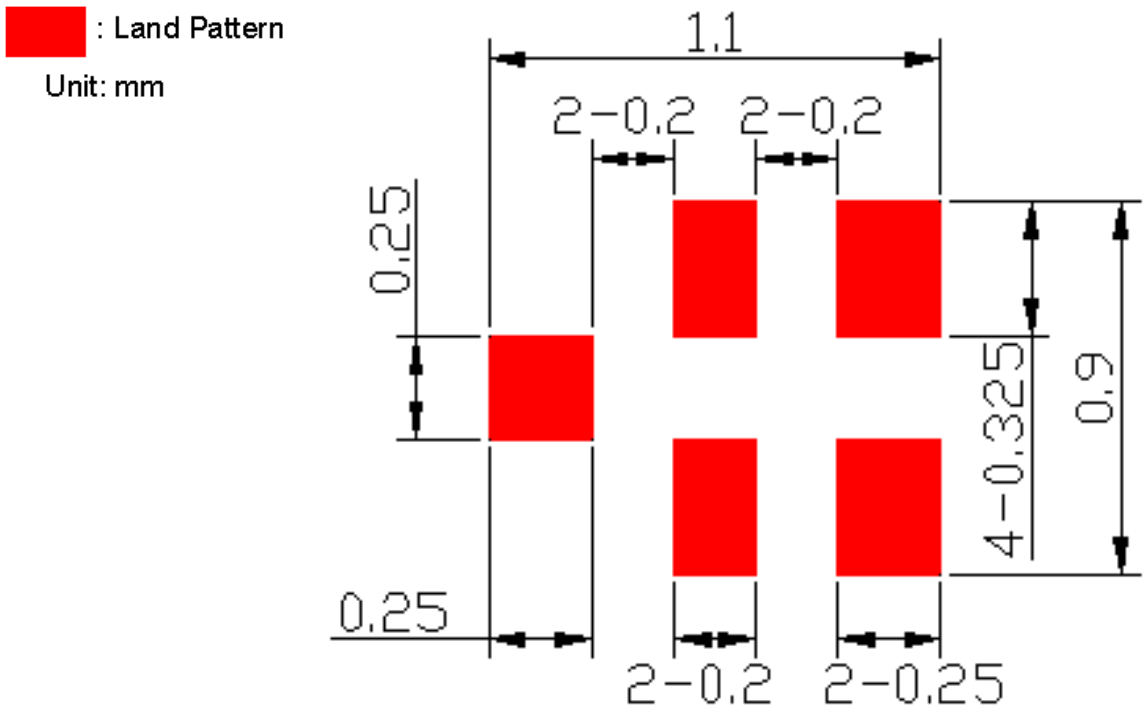
MEASUREMENT CIRCUIT:



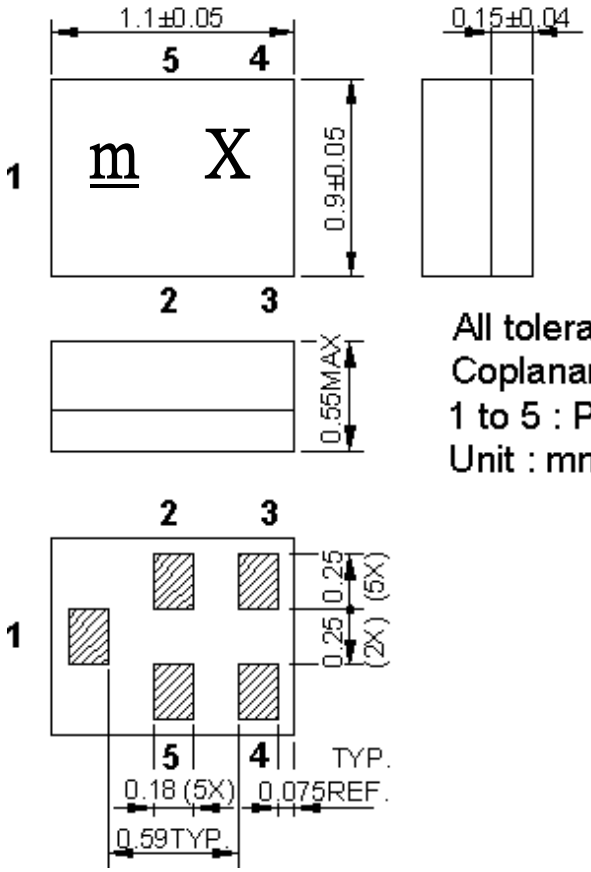
Source Impedance: 50 Ω

Load Impedance: 50 Ω

PCB Footprint:



OUTLINE DRAWING:



All tolerances are +/-0.05 mm unless otherwise specified
Coplanarity : 0.1 mm max.
1 to 5 : Pin No.
Unit : mm

Marking Descriptions	
$\overline{m}$	Series Number
X	Date Code(Year+Month)

Pin Description	
2, 3, 5	Ground
1	Input
4	Output

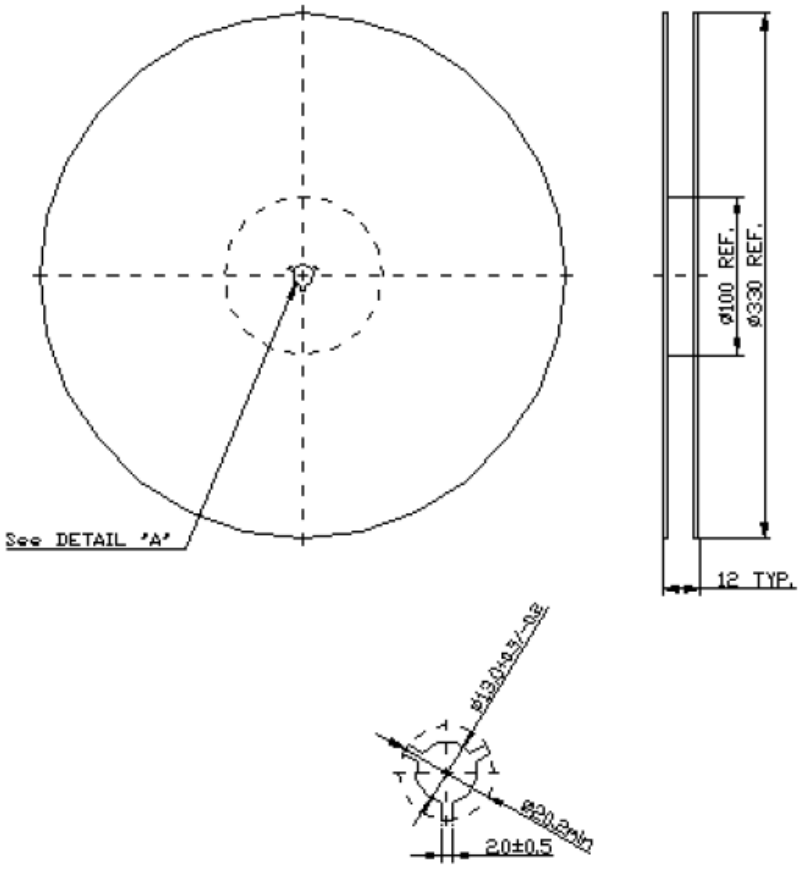
☐ **: Year/Month Code (Follow the table)**

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013/2021	A	B	C	D	E	F	G	H	J	K	L	M
2014/2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015/2023	a	b	c	d	e	f	g	h	j	k	l	m
2016/2024	n	p	q	r	s	t	u	v	w	x	y	z
2017/2025	A	B	C	D	E	F	G	H	J	K	L	M
2018/2026	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019/2027	a	b	c	d	e	f	g	h	j	k	l	m
2020/2028	n	p	q	r	s	t	u	v	w	x	y	z

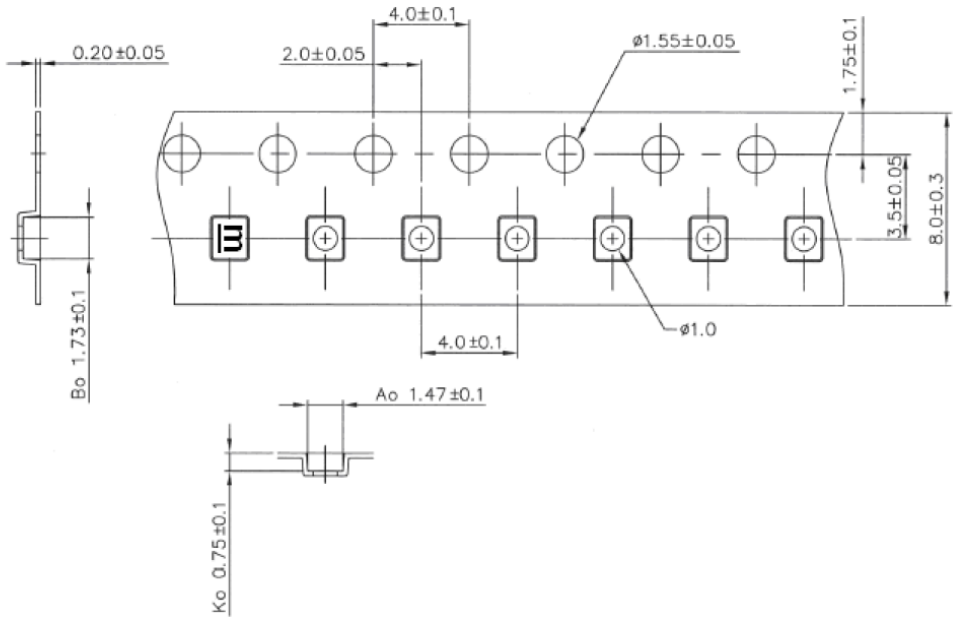
PACKING

REEL DIMENSION

Reel Count
7" = 3000
13" = 10,000



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.