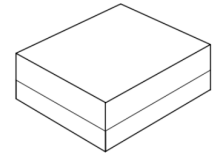


SF2733KM

**1234.4 MHz
SAW Filter**



SM1411-5M

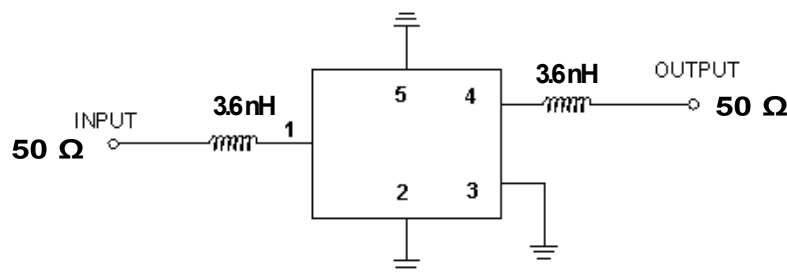
MAXIMUM RATING:

- ▽ Input Power Level: 10 dBm
- ▽ DC Voltage : 3 V
- ▽ Operating Temperature: -40°C to +85°C
- ▽ Storage Temperature: -40°C to +85°C
- ▽ Moisture Sensitivity Level: Level 1(MSL 1)
- AEC-Q200 compliant

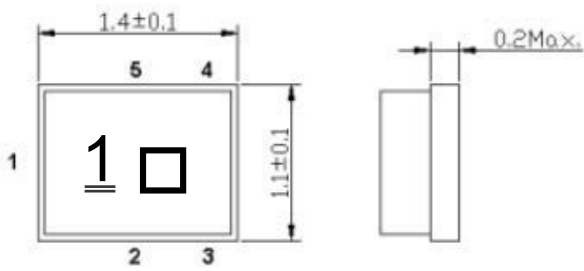
ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	1234.4	-
Insertion loss (1211.9~1256.9 MHz) IL	dB	-	2.6	3.5
Amplitude ripple (1211.9~1256.9 MHz)	dB	-	1.1	1.8
Group delay ripple (1211.9~1256.9 MHz)	ns	-	16	100
Attenuation (Reference level from 0 dB)				
10 ~ 1088 MHz	dB	30	46	-
1088 ~ 1175 MHz	dB	20	42	-
1300 ~ 1387 MHz	dB	25	44	-
1387 ~ 2000 MHz	dB	22	44	-
2000 ~ 3000 MHz	dB	25	50	-
Temperature coefficient of frequency	ppm/k	-	-36	-

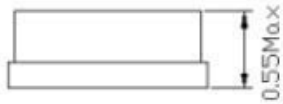
MEASUREMENT CIRCUIT:



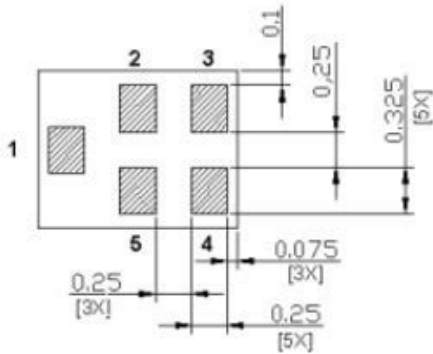
OUTLINE DRAWING:



□ Year Month
1 = symbol code



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

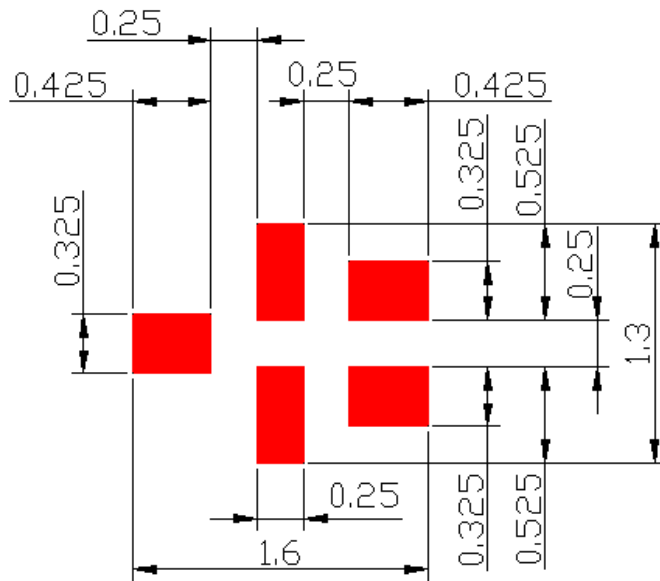


Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	GND	Ground

□ : Year/Month Code (Follow the table) - 8year cycle

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

PCB Footprint:



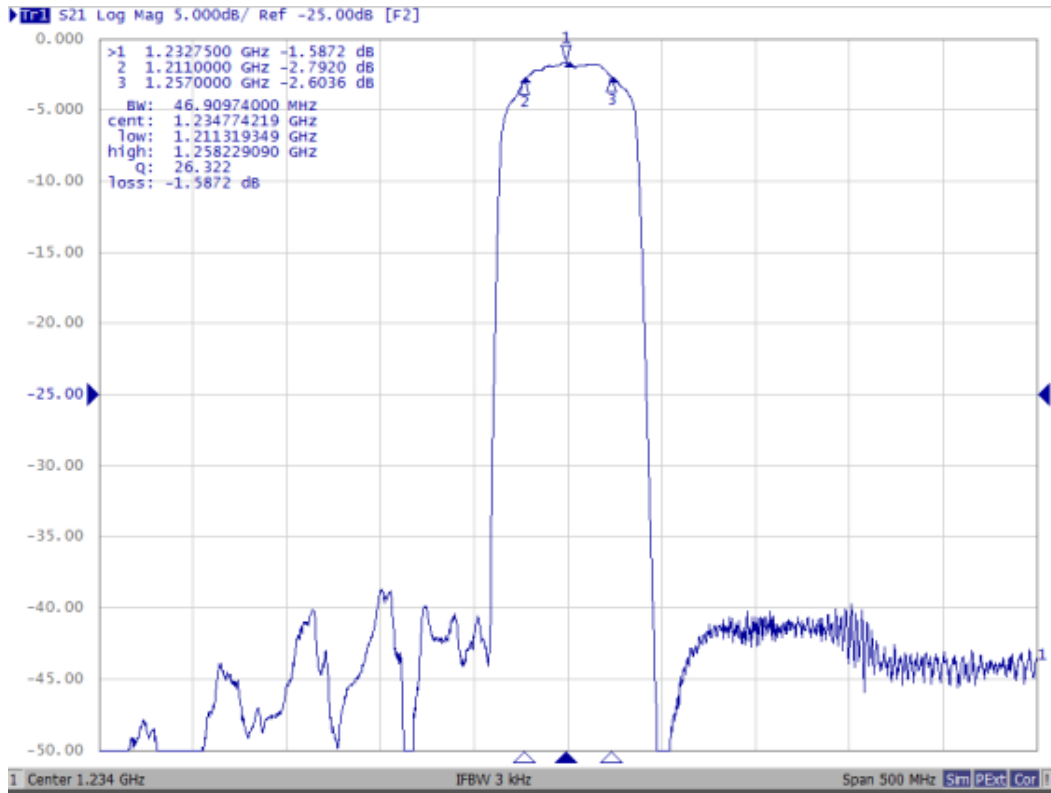
■ : Land Pattern
Unit : mm

Frequency Characteristics:

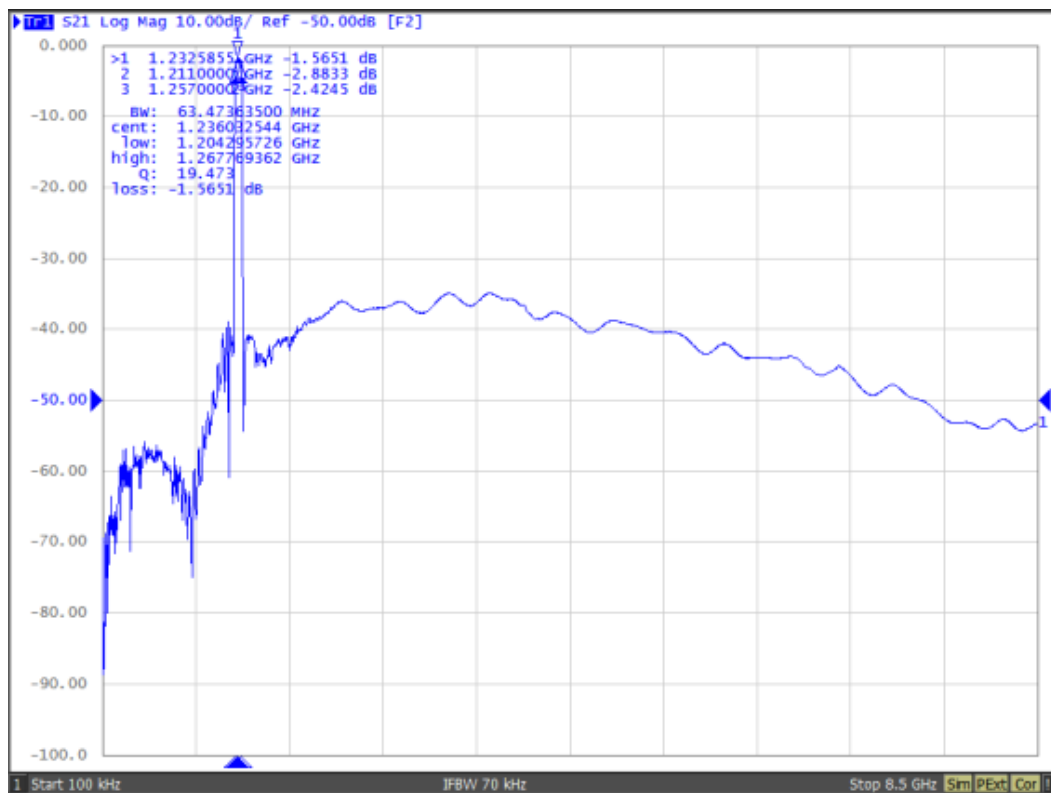
S21_span 200 MHz



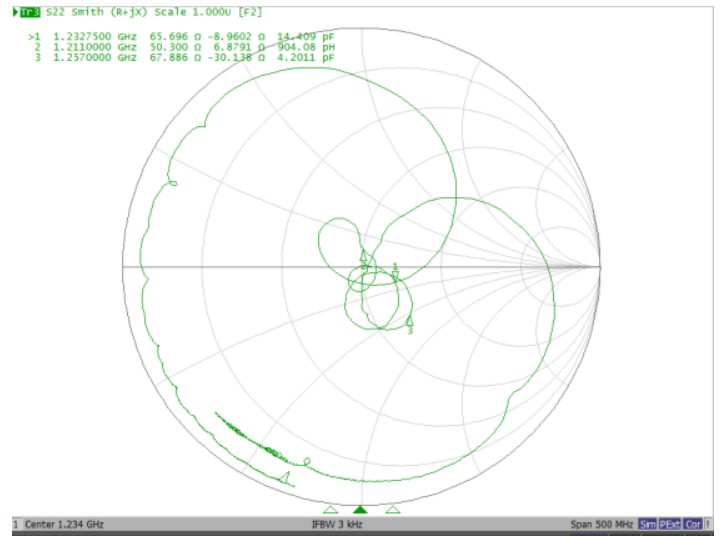
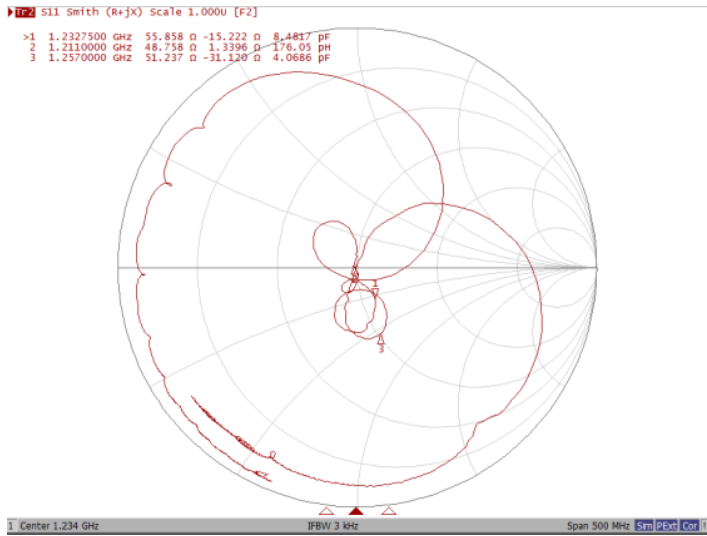
S21_span 500 MHz



S21_span 8.5 GHz



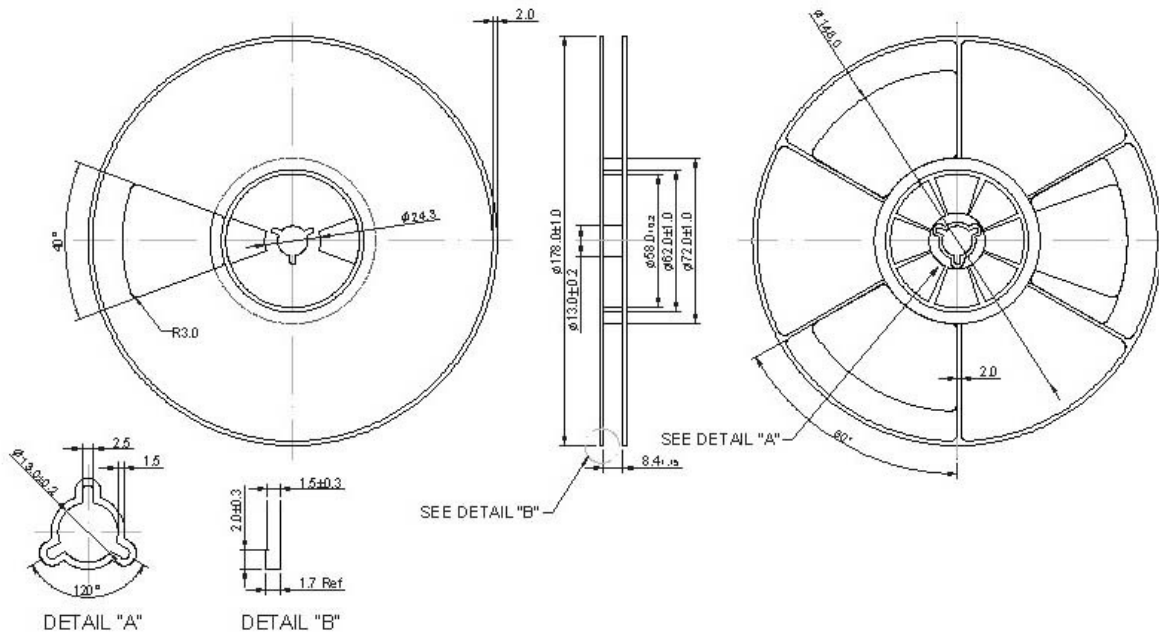
S11/S22 Span 500 MHz



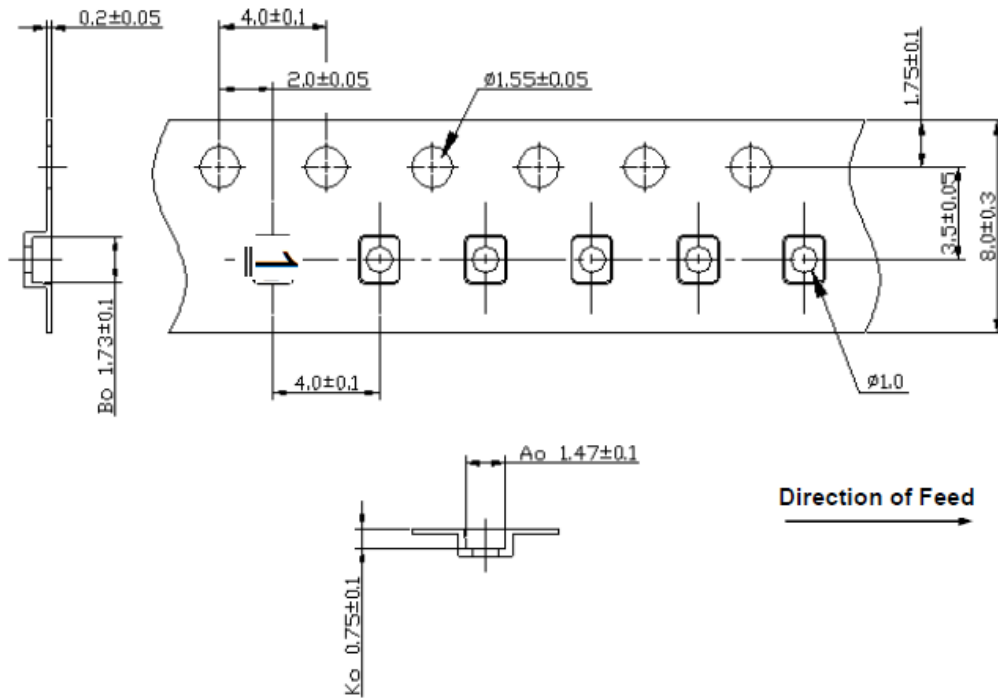
PACKING:

REEL DIMENSION

Reel QTY: 7" = 1000, 13" = 3000

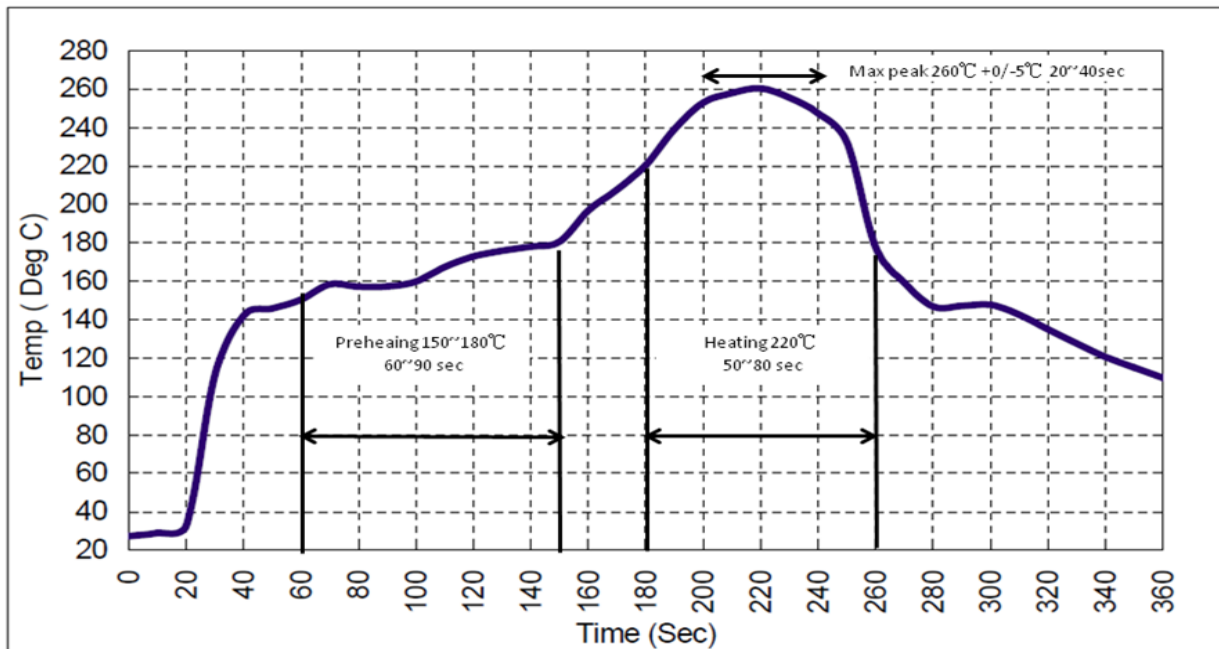


TAPE DIMENSION



Recommended Reflow Profile:

1. Preheating shall be fixed at $150 \sim 180^\circ\text{C}$ 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 $260^\circ\text{C} + 0/-5^\circ\text{C}$ peak (20~40sec).
4. Time: 2 times.



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.