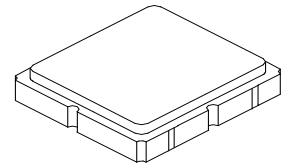


**SF2335E-2**

**243.95 MHz  
SAW Filter**



SM3030-6

#### MAXIMUM RATING:

- Maximum Input Power: 5 dBm
- Maximum DC Voltage: 3 V
- Operating Temperature: -20 °C to +85 °C
- Storage Temperature: -40 °C to +85 °C
- Moisture Sensitivity Level: Level 1 (MSL 1)

#### ELECTRICAL CHARACTERISTICS:

Parameters Description	Unit	Min.	Typ.	Max.
<b>Center Frequency</b> <b>Fc</b>	MHz	-	243.95	-
<b>3 dB Bandwidth</b> <b>BW</b>	MHz	0.26	0.5	-
<b>Insertion Loss at Fo</b> <b>IL</b>	dB	-	3.7	4.5
<b>Amplitude Ripple</b> (Fo±0.1 MHz) *	dB	-	0.8	1.2
<b>Group Delay Ripple</b> (Fo±0.1 MHz) *	µsec	-	0.3	1.2
<b>Attenuation</b> (Reference level from 0 dB)				
Fo±0.6 MHz *	dB	25	30	-
Fo±10.7 MHz *	dB	40	62	-
Fo±21.4 MHz *	dB	60	63	-

\* Fo is fixed frequency defined on 243.95 MHz

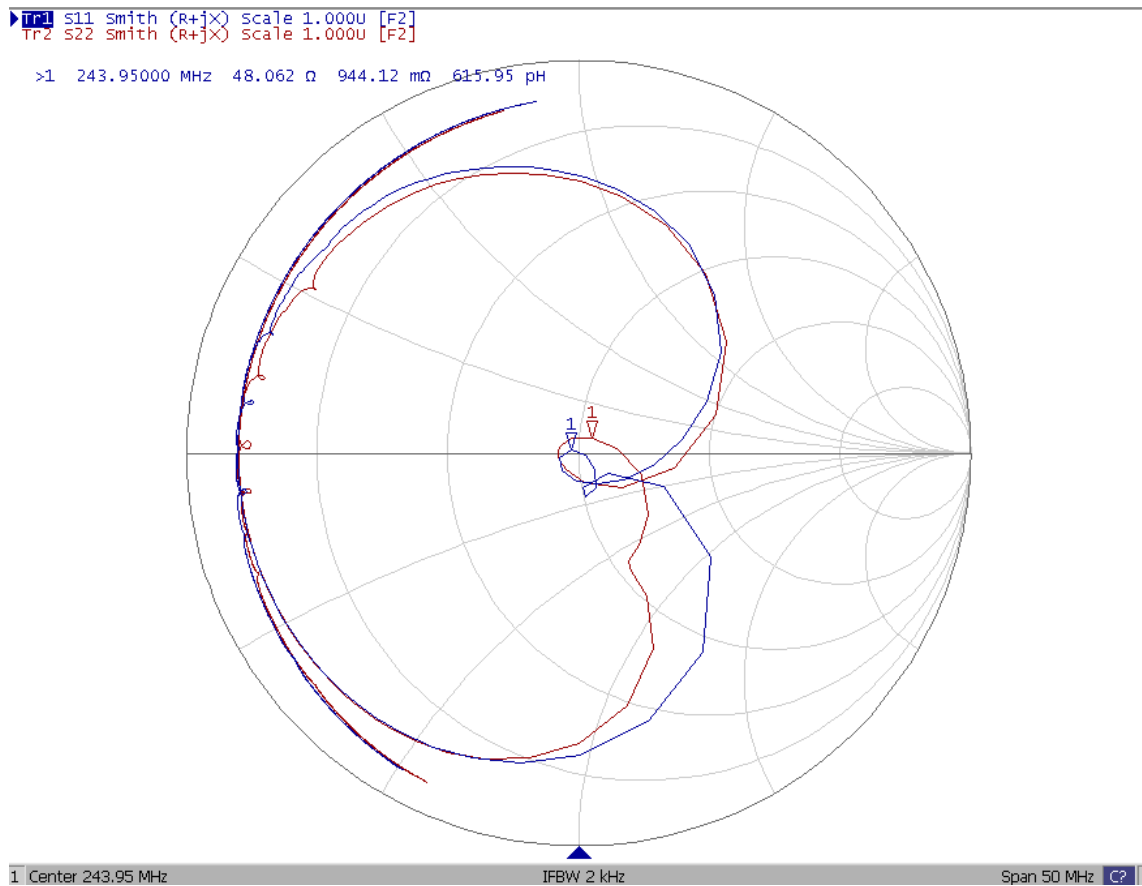
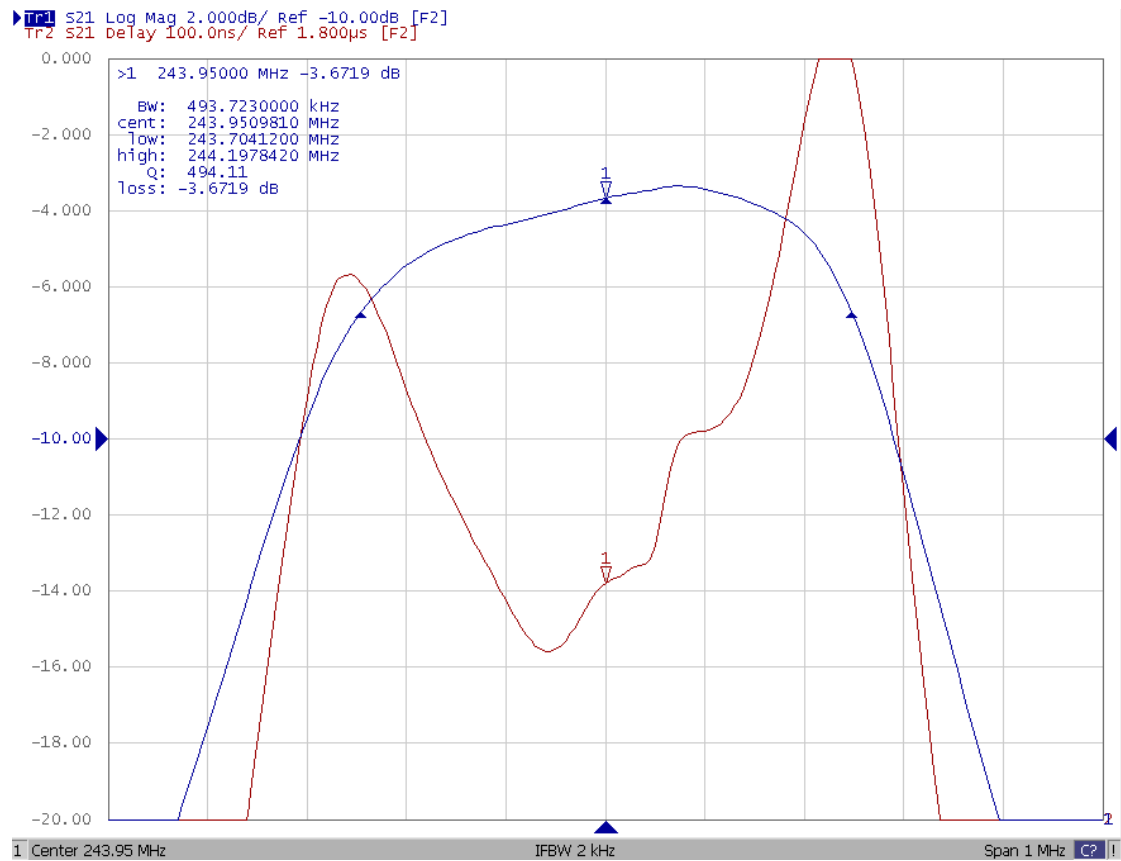


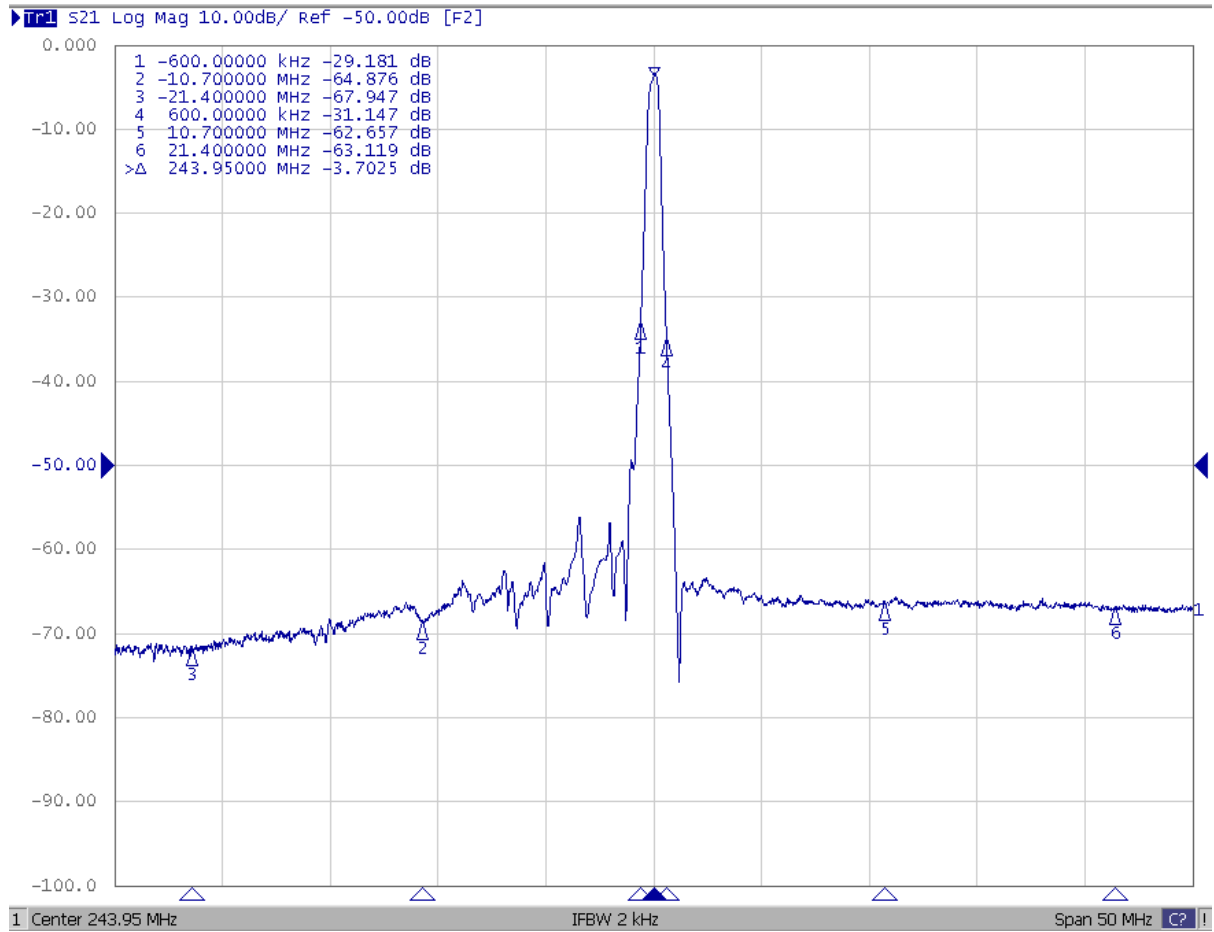
**CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.**

#### NOTES:

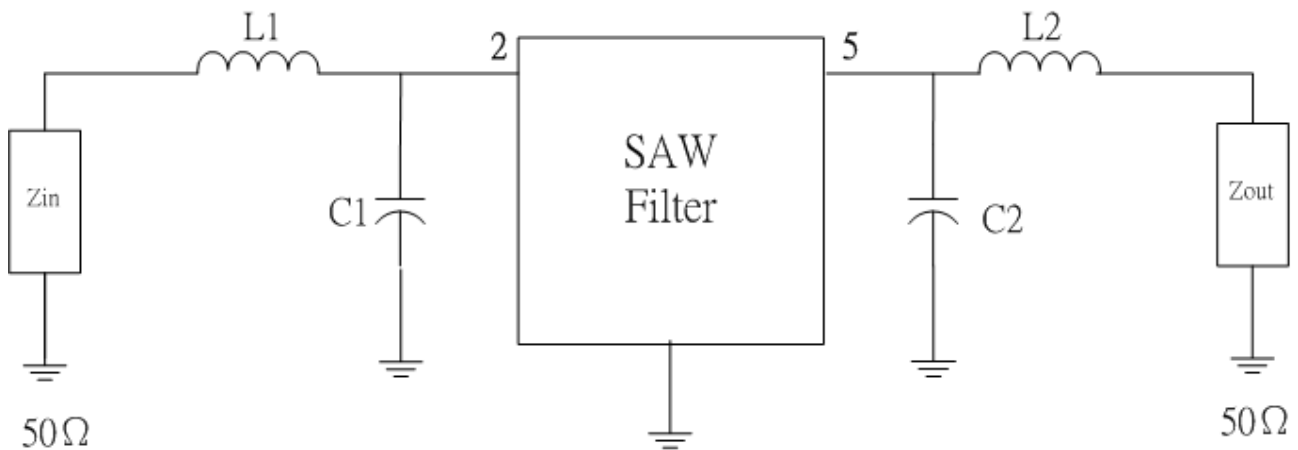
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

## FREQUENCY CHARATERISTIC:



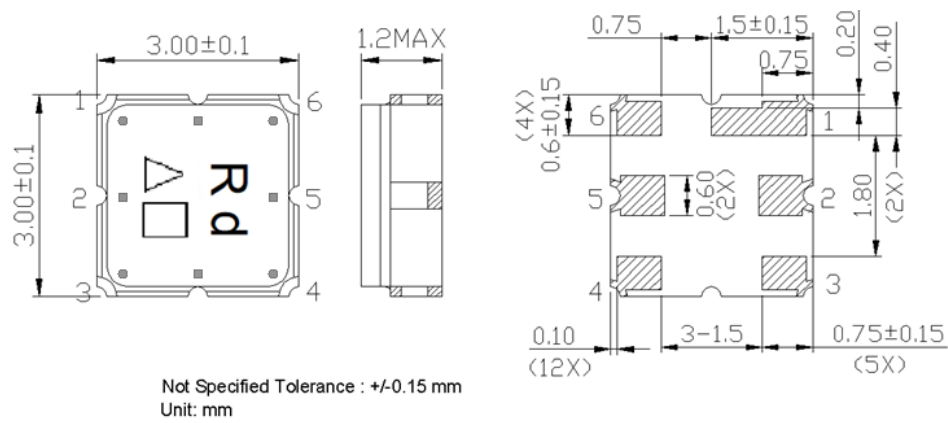


### MEASUREMENT CIRCUIT:



$$L1=L2=110\text{nH} \quad C1=C2=1.5\text{pF}$$

OUTLINE DRAWING:

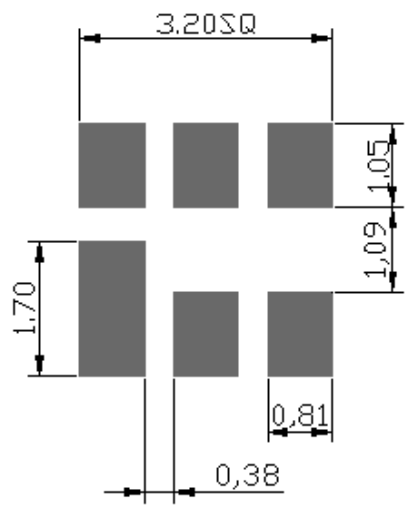


- #2: Input
- #5: Output
- Others: Ground
- : Week Code
- △: Product / Year Code: 1 for 2021, 2 for 2022...0 for2030

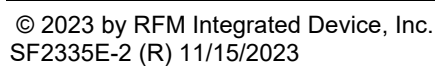
Week Code Table

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	q	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

PCB FOOTPRINT:



7" Reel = 500  
13" Reel = 3000



### 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 (20~40sec).
4. Time: 2 times.

