

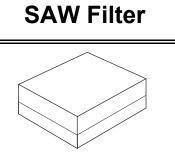


Miniature High Performance SAW Filter

- Low Passband Loss
- Hermetic 1.4 x 1.1 mm Surface-mount Case
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 2A

Absolute Maximum Ratings

Rating	Value	Units
Maximum Input Power Level 25 kHRS@+55°C	17	dBm
Maximum Input Power Level 22 kHRS@+55°C	18	dBm
Maximum Input Power Level 4 kHRS@+55°C	24	dBm
DC Voltage	5	VDC
Operating Temperature	-10 to +70	°C
Storage Temperature	-40 to +85	°C



SF2330K

1890 MHz

SM1411-5

Electrical Characteristics

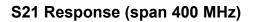
Characteristic	Sym	Notes	Min	Тур	Max	Units			
Center Frequency	f _C			1890	1	MHz			
Insertion Loss, 1881.792 to 1897.344 MHz	IL _{MAX}			2.2	3.5	dB			
VSWR (1881.792 to 1897.344 MHz)				1.6	2.3				
Terminating Source Impedance	Z _S			50		0			
Terminating Load Impedance	ZL			50		Ω			
Amplitude Ripple, 1881.792 to 1897.344 MHz				0.8	2.2	dB			
Attenuation (Reference level from 0 dB)									
10 to 1600 MHz			30	36		dD			
1600 to 1830 MHz			30	35		dB			
1920 to 1980 MHz			25	38					
2730 to 2820 MHz			30	40					
Package Size		SMD 1.4x1.1							
Lid Symbolization		•		2					

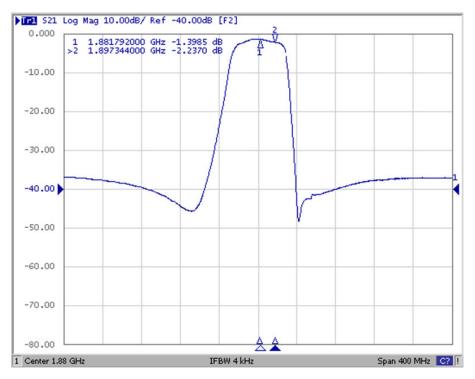


1. The design, manufacturing process, and specifications of this device are subject to change.

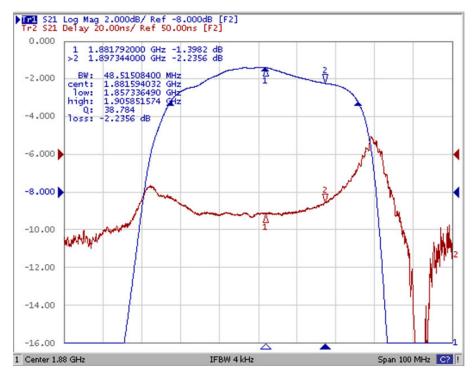
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

Frequency Characteristics:

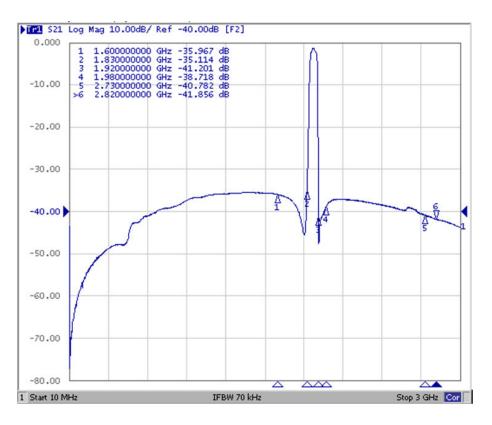




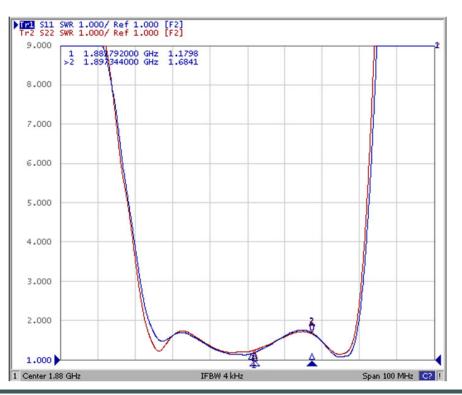
S21 Response (span 100 MHz)



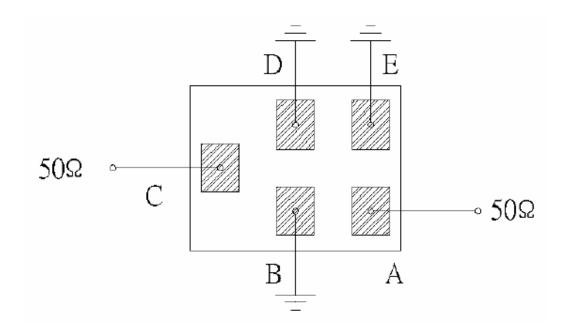
S21 Response (span 3GHz)



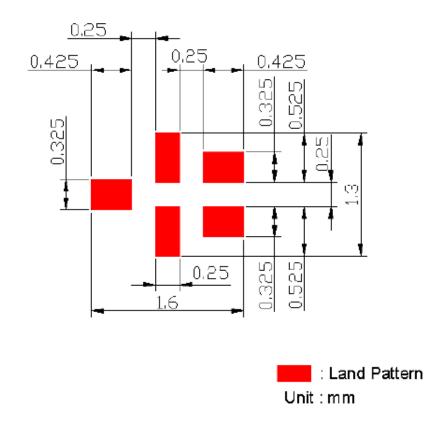
S11 and S22 Response (span 100 MHz)



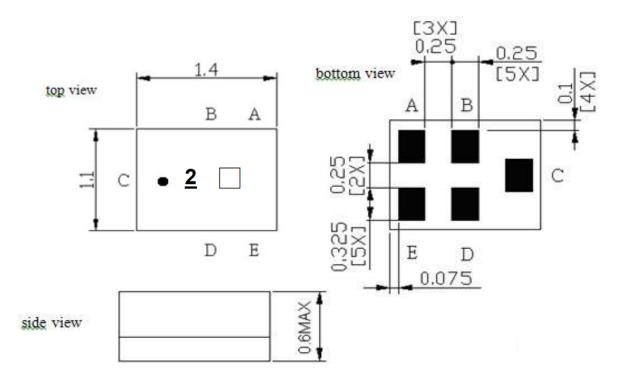
Measurement Circuit:



PCB Footprint :



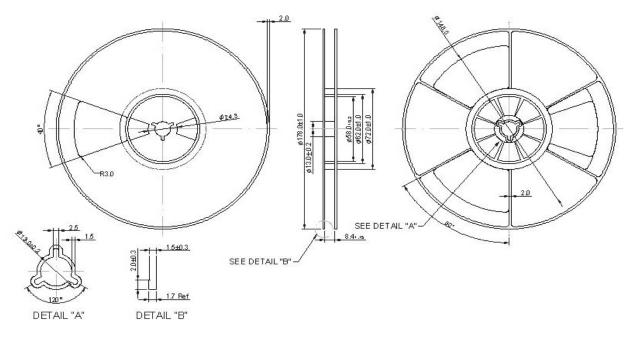
Outline Drawing:



: Year/Month Code (Follow the table)

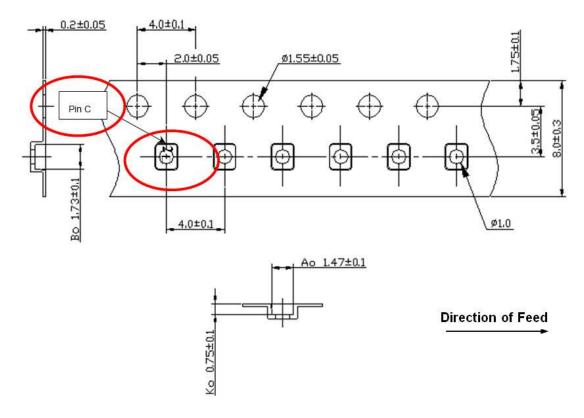
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	Α	В	С	D	E	F	G	Н	J	K	L	M
2014	N	P	Q	R	S	Т	U	V	W	X	Y	Z
2015	а	b	С	d	e	f	g	h	j	k		m
2016	n	p	q	r	S	t	u	V	W	X	У	Z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	<u>S</u>	T	U	V	W	X	Y	Z
2019	a	b	C	d	e	f	g	h	i	<u>k</u>	l	m
2020	<u>n</u>	p	q	r	5	t	<u>u</u>	V	w	X	¥	Z

Reel Dimensions - 7 inch Reel, 3000 Filters:



Tape and Reel Standard per ANSI/EIA-481

Tape Dimensions:



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.

