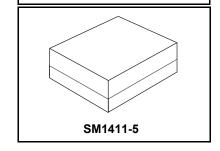
# **Preliminary**



RFM products are now Murata products.

SF2330K

# 1890 MHz SAW Filter



- 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)



**Absolute Maximum Ratings** 

A too orato maximum ratingo									
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							

#### **Electrical Characteristics**

Characteristic	Sym	Notes	Min	Тур	Max	Units			
Center Frequency	f <sub>C</sub>			1890		MHz			
Insertion Loss, 1881.792 to 1897.344 MHz	IL <sub>MAX</sub>			2.2	3.5	dB			
VSWR (1881.792 to 1897.344 MHz)				1.6	2.3				
Terminating Source Impedance	Z <sub>S</sub>			50		0			
Terminating Load Impedance	Z <sub>L</sub>			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		dB			
1600 to 1830 MHz			30	35		- GB			
1920 to 1980 MHz			25	38					
2730 to 2820 MHz			30	40					
Package Size			mm						
Lid Symbolization		2							



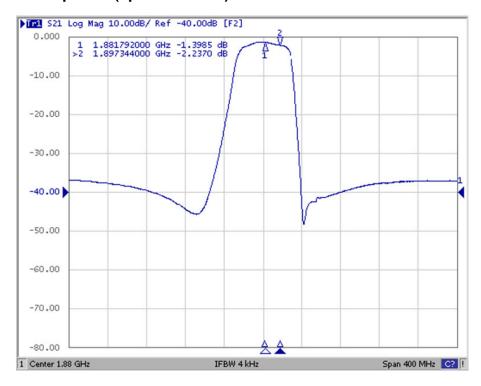
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

#### NOTES:

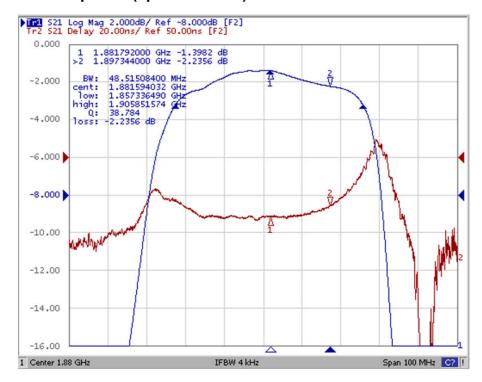
- 1. US and international patents may apply.
- 2. Murata, stylized Murata logo, and Murata N.A., Inc. are registered trademarks of Murata Manufacturing Co., Ltd.

## **Frequency Characteristics:**

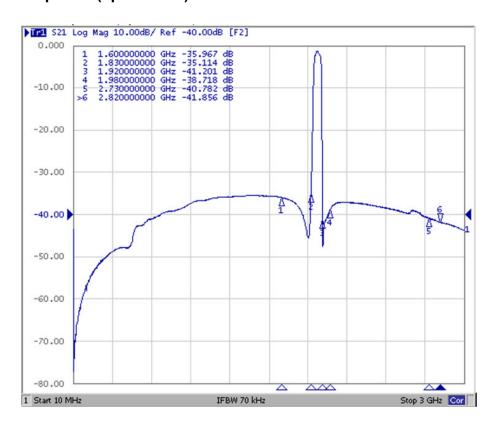
#### S21 Response (span 400 MHz)



#### S21 Response (span 100 MHz)



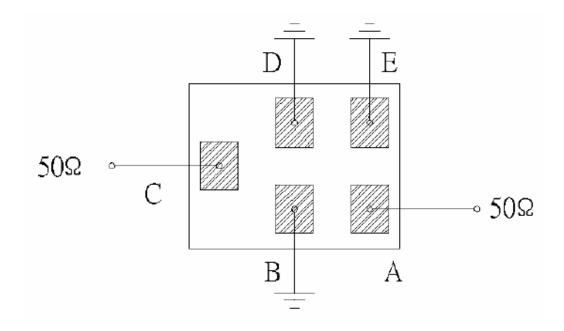
#### S21 Response (span 3GHz)



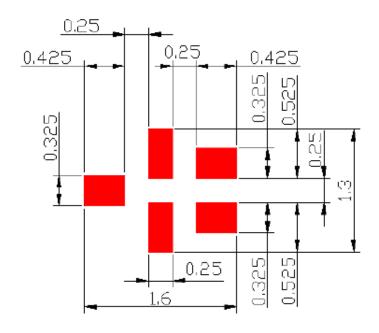
#### S11 and S22 Response (span 100 MHz)



### **Measurement Circuit:**



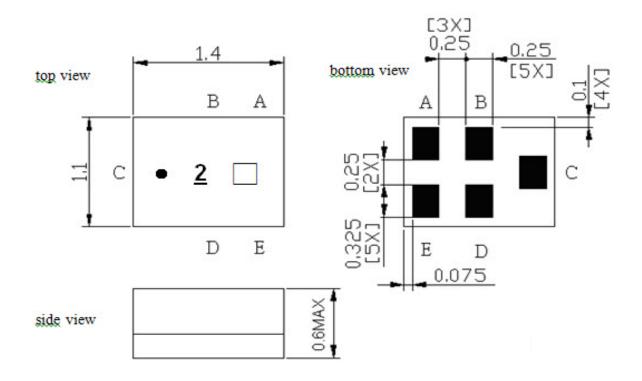
## **PCB Footprint:**



: Land Pattern

Unit:mm

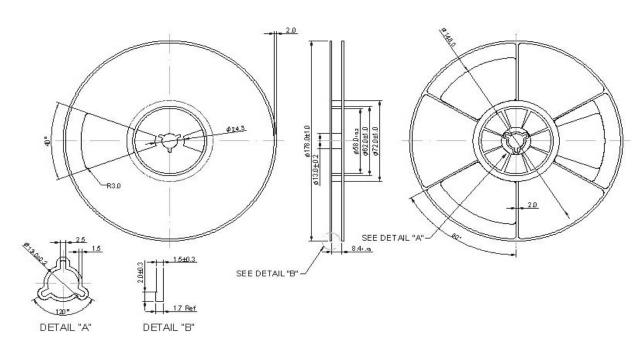
## **Outline Drawing:**



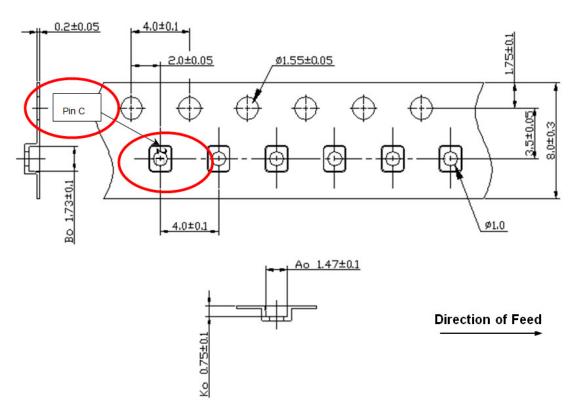
#### : Year/Month Code (Follow the table)

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	Р	Q	R	S	Т	U	V	W	X	Υ	Z
2015	a	b	С	d	е	f	g	h	j	k	- 1	m
2016	n	р	q	r	S	t	u	V	w	X	У	z
2017	A	В	<u>C</u>	D	<u>E</u>	F	G	<u>H</u>	<u>J</u>	K	L	M
2018	N	<u>P</u>	Q	<u>R</u>	<u>s</u>	I	<u>U</u>	V	W	<u>X</u>	<u>Y</u>	Z
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	g	<u>h</u>	İ	<u>k</u>	<u>I</u>	<u>m</u>
2020	<u>n</u>	р	q	r	<u>s</u>	<u>t</u>	<u>u</u>	V	w	<u>x</u>	¥	<u>z</u>

## Reel Dimensions - 7 inch Reel, 3000 Filters:



## **Tape Dimensions:**



### **Recommended Reflow Profile:**

