# ABSTS5A2-34IM033M

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1.1 x 0.9 x 0.55 mm RoHS/RoHS II Compliant MSL Level = 3

#### Features

- Usable Bandwidth of 75 MHz
- High Out of Band Attenuation
- Compact Package Size

# Applications

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- Cellular, LTE, WCDMA RF SAW Filter
  - Wireless & telecommunication applications
- Low loss RF Filter for Receive Path.

#### **Electrical Specifications**

<b>D</b>	Parameters		Specifications					
Parame	ters	Min	Тур	Max				
Nominal Center Frequ	ency (Fc) (MHz)		1842.5					
Insertion Loss (dB)* (1	805 ~ 1880 MHz)		2.0	4.0				
Amplitude Ripple (dB <sub>p-p</sub> )		1.0	3.3					
Input VSWR (1805		1.7	2.3					
Output VSWR (1805 ~ 1880 MHz)			1.6	2.2				
	DC~960 MHz	32	35					
	1558~1608 MHz	32	36					
Attenuation	1710~1785 MHz	34	38					
	1920~2400 MHz	25	37					
	$2400\sim 2500~MHz$	33	39					
	2500 ~ 3610 MHz	25	35					
(dB) (reference level from 0dB)	3610 ~ 3760 MHz	25	38					
	3760 ~ 5415 MHz	20	35					
	5415 ~ 5640 MHz	20	36					
	5640 ~ 7220 MHz	18	27					
	7220 ~ 7520 MHz	16	25					
	7520 ~ 8000 MHz	14	23					
Terminating Source Impedance $(\Omega)$			50//33nH					
Terminating Load I			50//12nH					
Maximum Input F	Power (dBm)			10				
DC Voltage (V)				0				

\*Note: Specification of insertion loss excludes loss that comes from the test board.

### **Mechanical Specifications**

Parameters	Specifications
Filter Dimension	1.1 x 0.9 x 0.55
Mounting Type	SMD Mount



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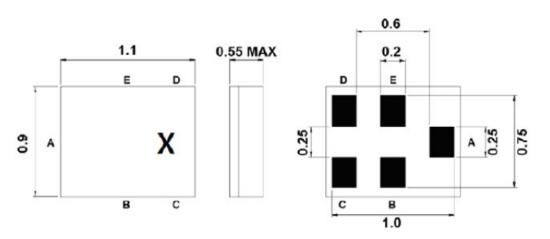
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# **Environmental Specifications**

Parameters	Specifications					
Operating Temperature Range	$-20^{\circ}\text{C} \sim +85^{\circ}\text{C}$					
Storage Temperature Range	$-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$					
MSL level	3					
ESD	50V (MM), 100V (HBM)					

### **Package Dimensions**



Pin No.	Symbol	Function		
А	IN	Input		
В	GND	Ground		
С	GND	Ground		
D	OUT	Output		
Е	GND	Ground		

### **Marking Description:**

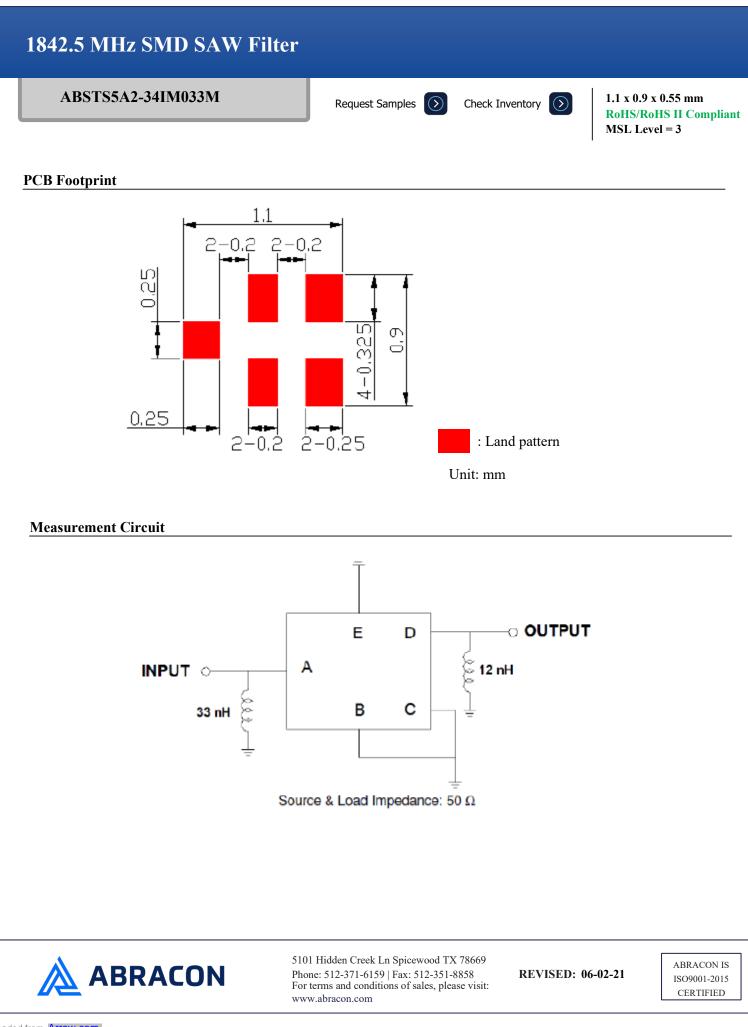
X: Year/ Month Code (Follow the table)

YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	А	В	С	D	Е	F	G	Н	J	Κ	L	М
2014	Ν	Р	Q	R	S	Т	U	V	W	Х	Y	Ζ
2015	а	b	c	d	e	f	g	h	j	k	1	m
2016	n	р	q	r	s	t	u	v	W	х	у	z
2017	A	B	<u>C</u>	D	E	F	<u>G</u>	H	J	K	L	<u>M</u>
2018	N	<u>P</u>	Q	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	V	W	<u>X</u>	Y	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	e	f	g	<u>h</u>	j	k	<u>1</u>	<u>m</u>
2020	<u>n</u>	p	q	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	v	W	<u>X</u>	У	Z



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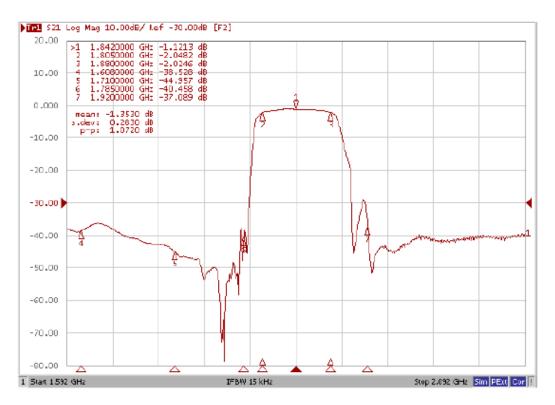


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# **Transmission Characteristics**

S21 Response (Narrowband)





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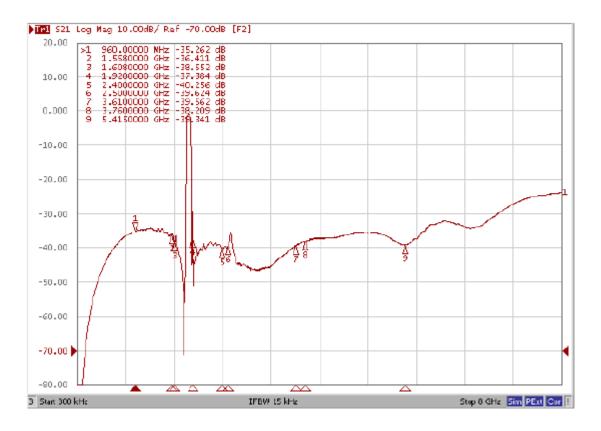
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#### S21 response (Broadband)





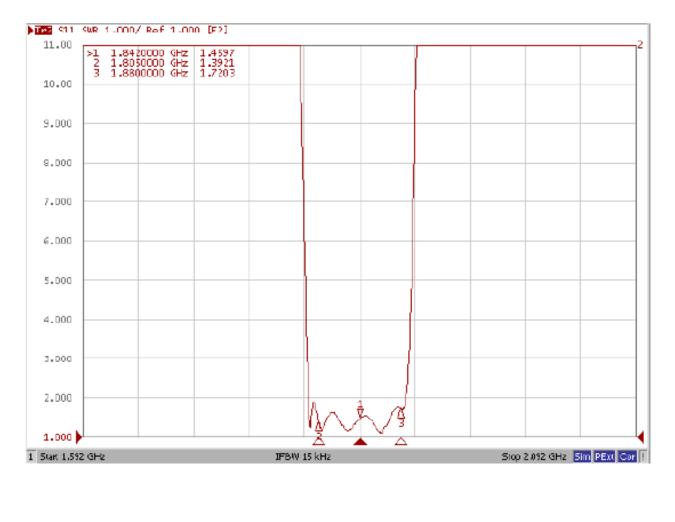
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#### **Reflection Characteristics**

#### S11 VSWR





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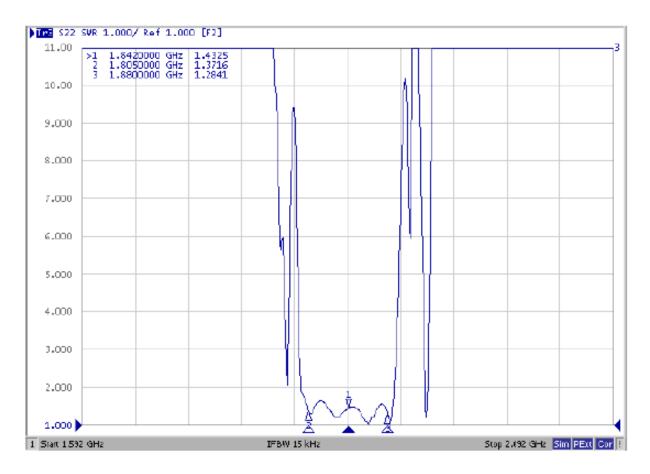
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### S22 VSWR





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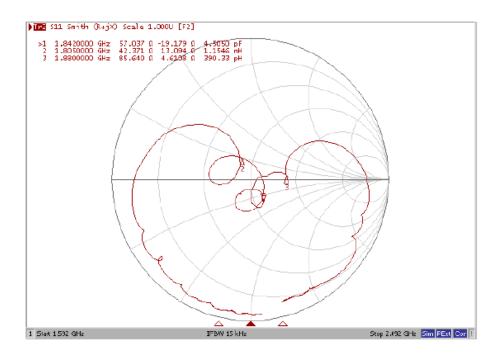
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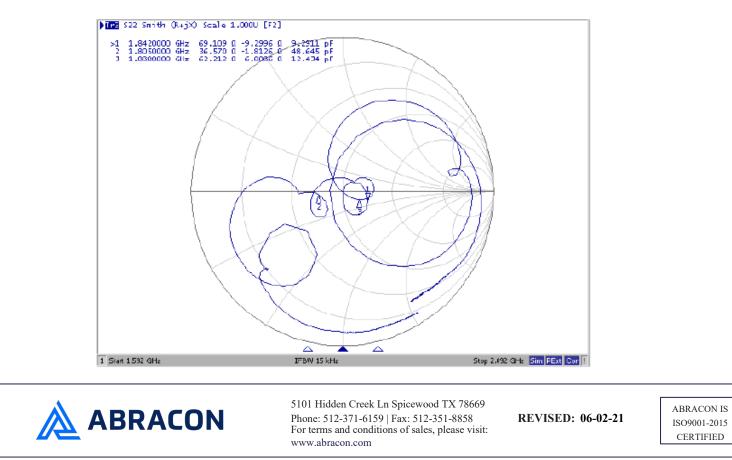
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### S11 Smith Chart



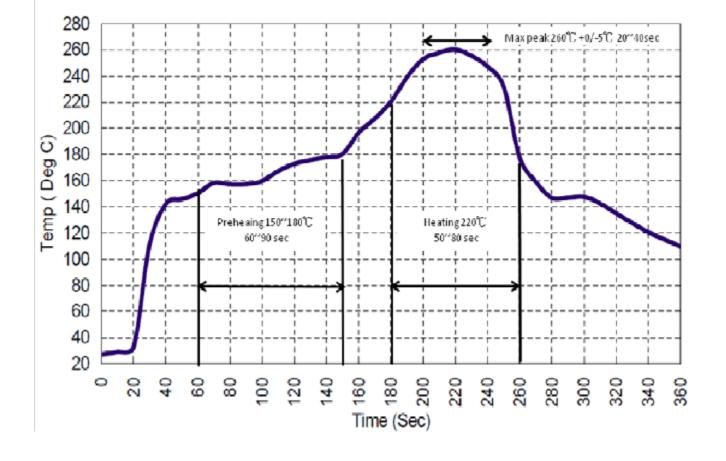
### S22 Smith Chart





#### **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 minimum.
- 3. Heating shall be fixed at 220°C for 50~80seconds and at 260°C+0/-5°C peak (20~40sec)
- 4. Time: 2 times



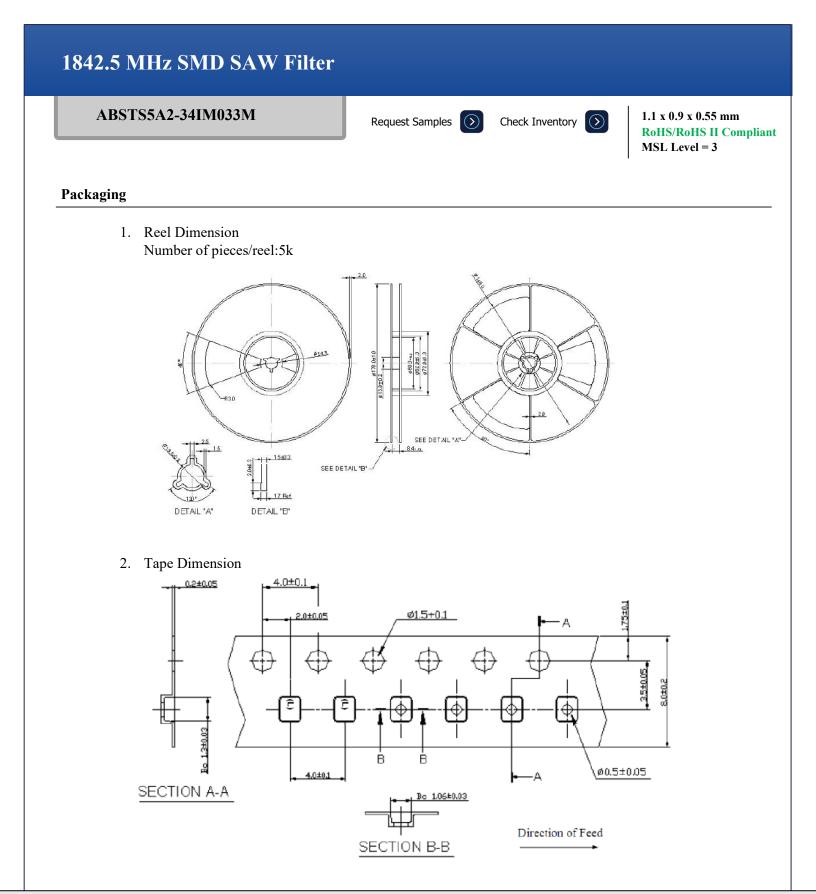


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