

1950 MHz SMD SAW Filter

ABSTS5A2-396M02CM

Request Samples



Check Inventory



1.1 x 0.9 x 0.5 mm
RoHS/RoHS II Compliant
MSL Level = 3

Features

- Low Loss Insertion
- Usable Bandwidth of 60 MHz
- AECQ-200 Compliant

Applications

- Automotive Applications
- Cellular 4G LTE, W-CDMA Systems
- Mobile Communications
- Low Loss Filter for Receive Path

Electrical Specifications

Parameters		Specifications		
		Min	Typ	Max
Nominal Center Frequency (Fc) (MHz)			1950	
Insertion Loss (1920 ~ 1980 MHz) (dB)			1.6	2.5
Amplitude Ripple (1920 ~ 1980 MHz) (dB)			0.6	1.5
Input VSWR (1920 ~ 1980 MHz)			1.9	2.3
Output VSWR (1920 ~ 1980 MHz)			1.9	2.3
Attenuation (dB)	DC ~ 1577 MHz	32	38	
	1577 ~ 1880 MHz	22	29	
	2110 ~ 2170 MHz	30	35	
	2500 ~ 3120 MHz	28	34	
	3840 ~ 3960 MHz	25	29	
	5760 ~ 5940 MHz	15	21	
Terminating Source & Load Impedance (Ω)			50	
Maximum Input Power (dBm)			10	
DC Voltage (V)			0	

Mechanical Specifications

Parameters	Specifications
Filter Dimension	1.1 x 0.9 x 0.5 mm
Mounting Type	SMD Mount

Environmental Specifications

Parameters	Specifications
Operating Temperature Range	-30°C ~ +85°C
Storage Temperature Range	-40°C ~ +85°C
RoHS/ RoHS II Compliant	Yes
MSL level	3
ESD Sensitive	Yes



5101 Hidden Creek Ln Spicewood TX 78669
Phone: 512-371-6159 | Fax: 512-351-8858
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www.abracon.com

REVISED: 08-09-19

ABRACON IS
ISO9001-2015
CERTIFIED

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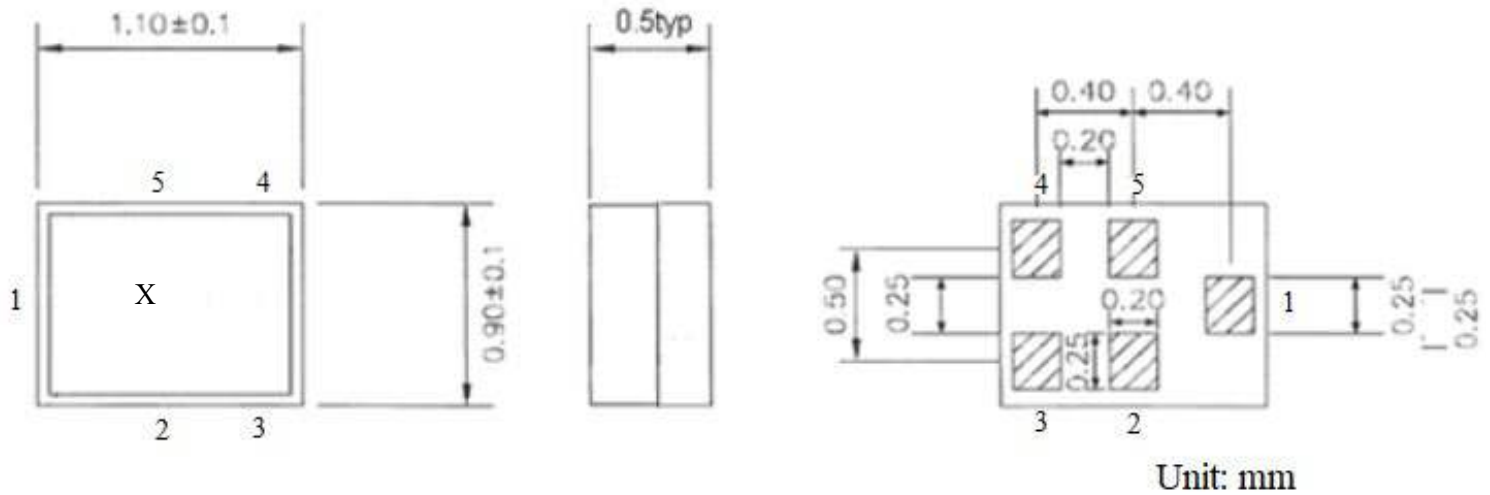


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Package Dimensions



All tolerances are ± 0.05 mm unless otherwise specified
Coplanarity: 0.1mm max
1 to 5: Pin numbers
Unit: mm

Pin No.	Symbol	Function
1	IN	Input
2	GND	Ground
3	GND	Ground
4	OUT	Output
5	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	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<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>
2018	<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>
2019	<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>
2020	<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>

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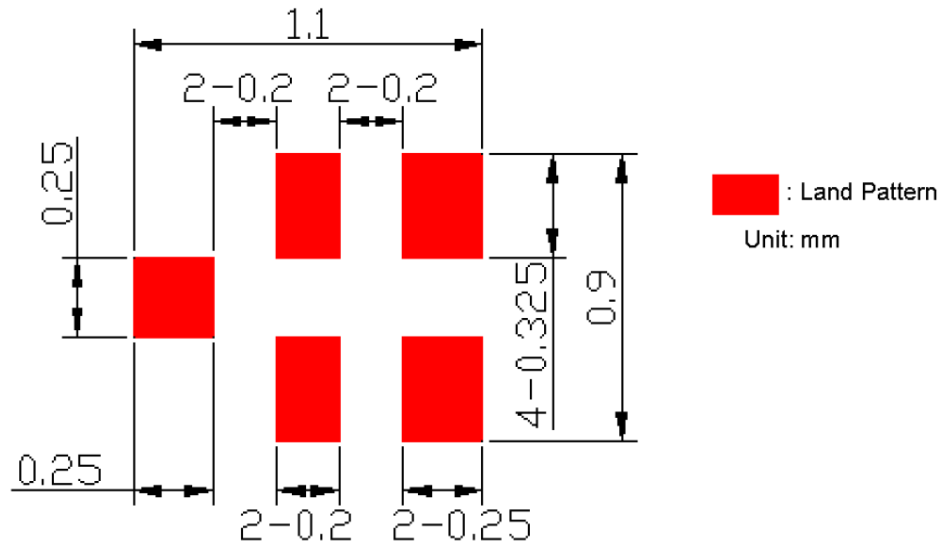


Check Inventory

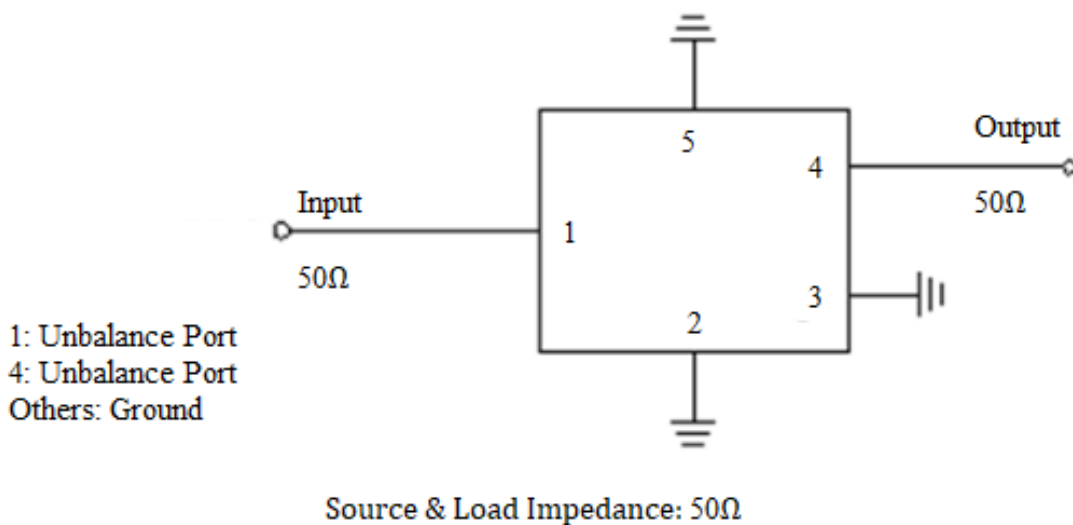


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PCB Footprint



Measurement Circuit



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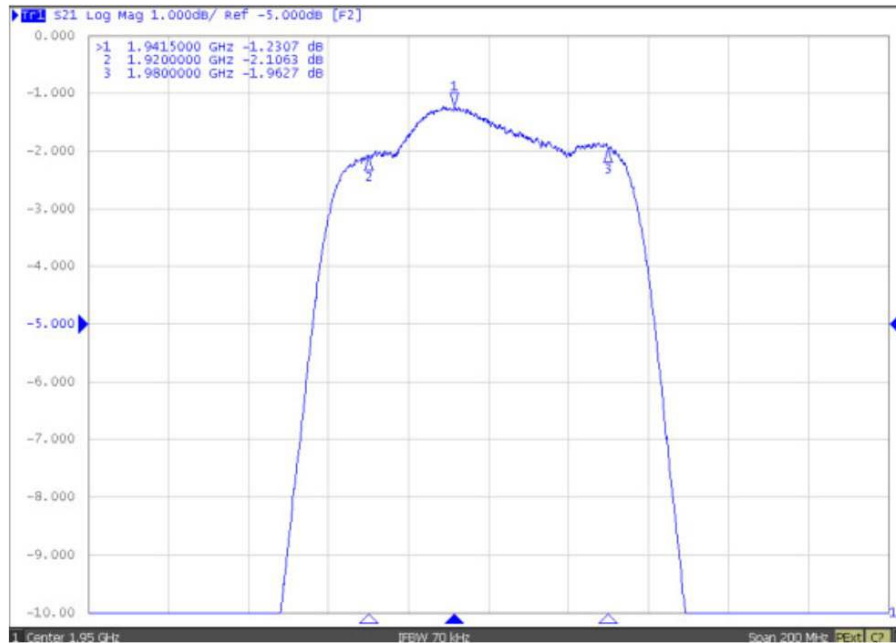
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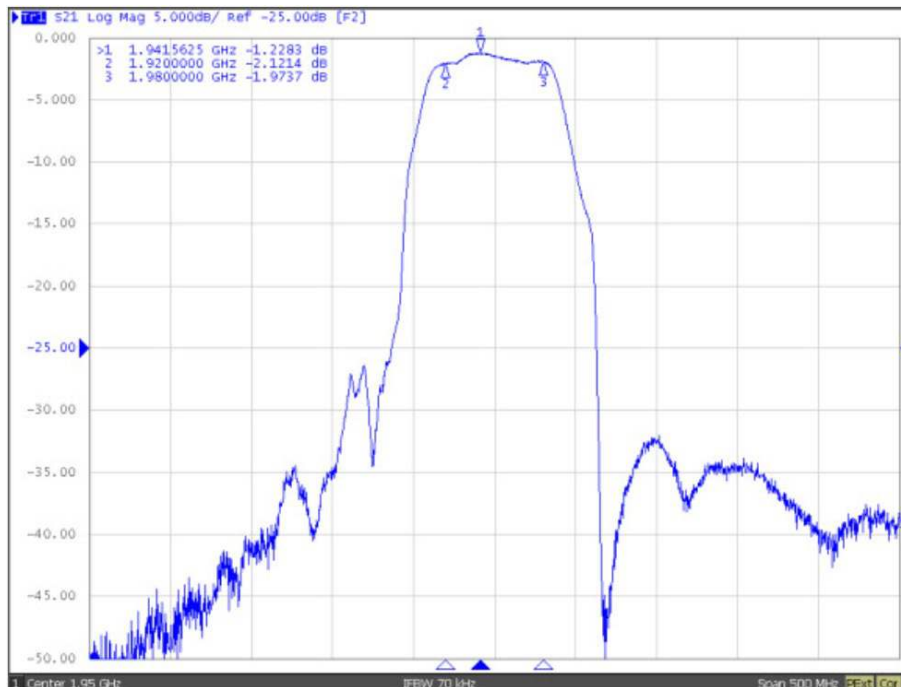
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Transmission Characteristics

S21 (Span 200 MHz)



S21 (Span 500 MHz)



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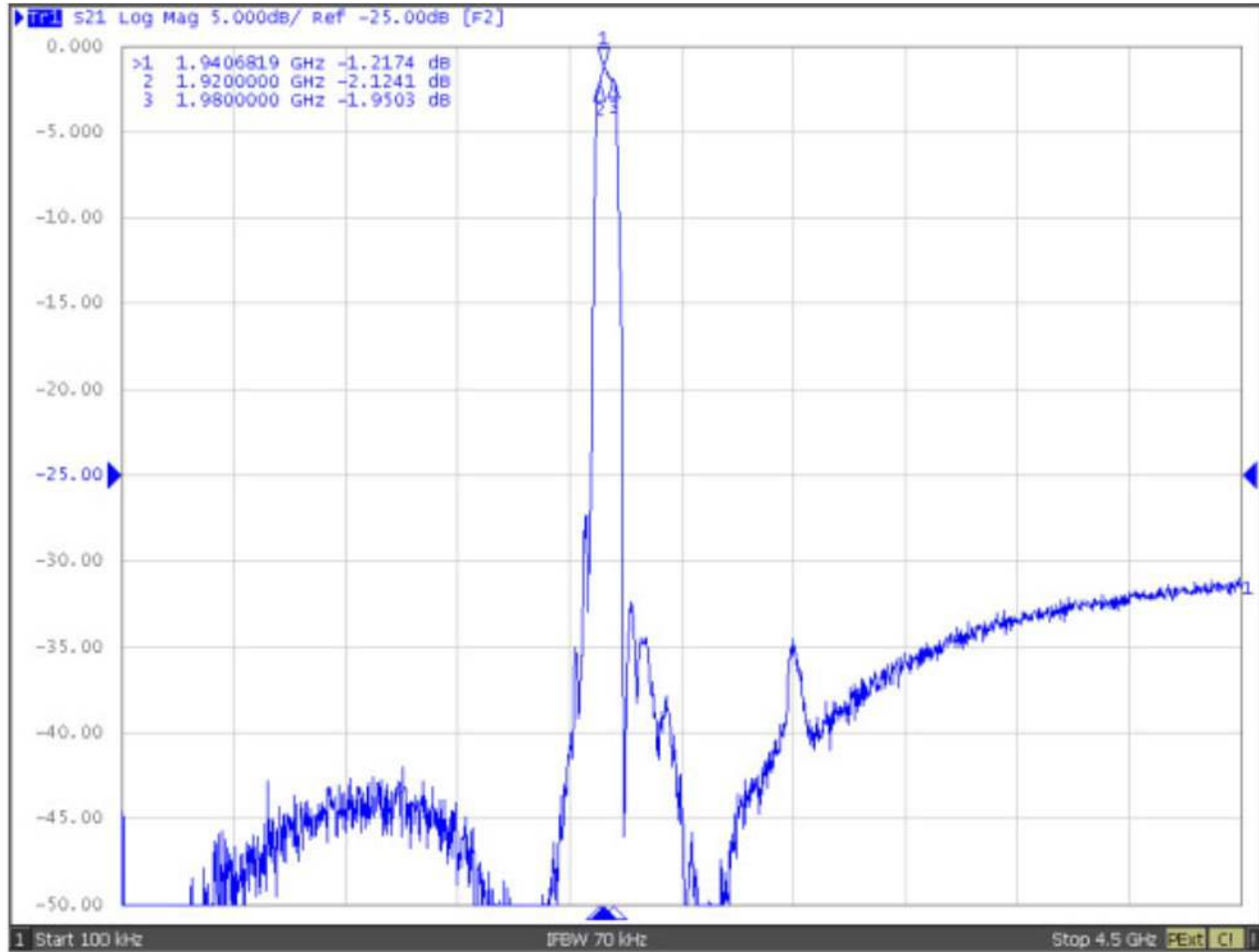


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S21 (Span 4.5 GHz)



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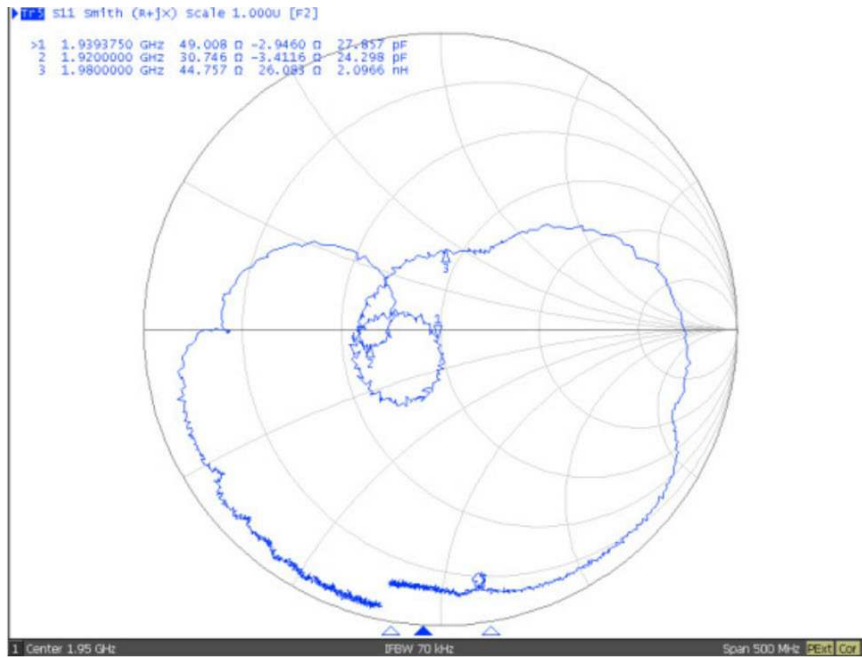
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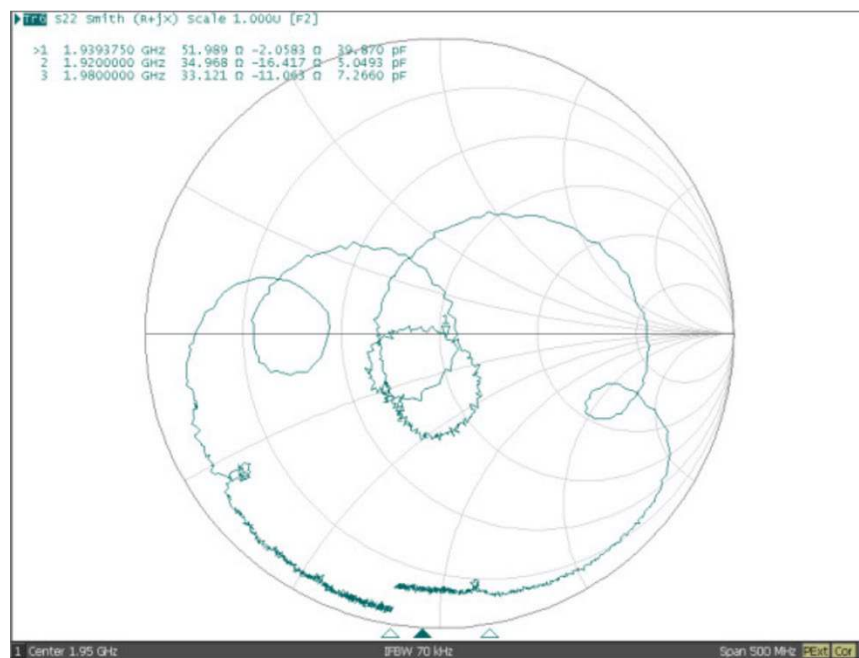
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Smith Charts

S11 (Narrowband)



S22 (Narrowband)



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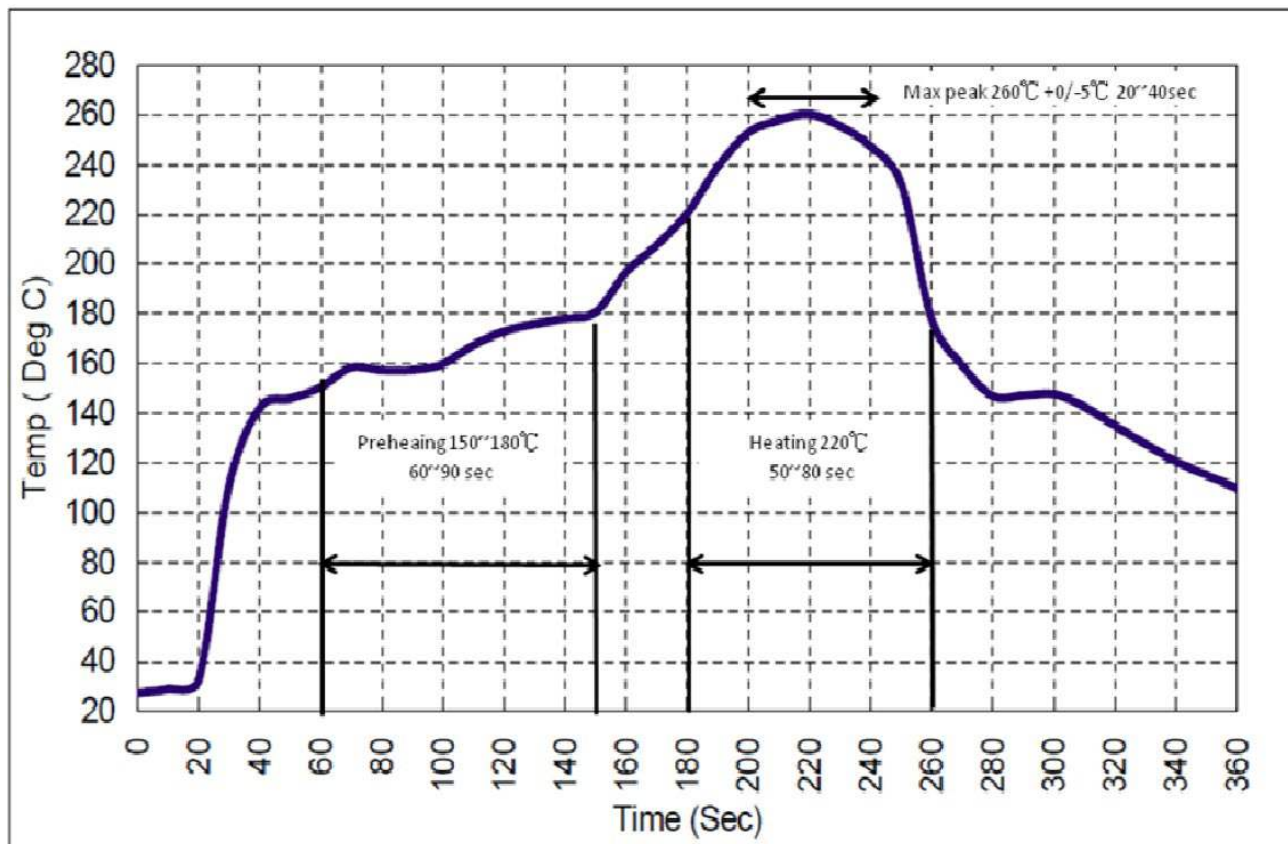
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Recommended Reflow Profile

1. Preheating shall be fixed at 150°C~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 50~80 seconds and at 260°C+0/-5°C peak (20~40sec.)
4. Time :2 times.



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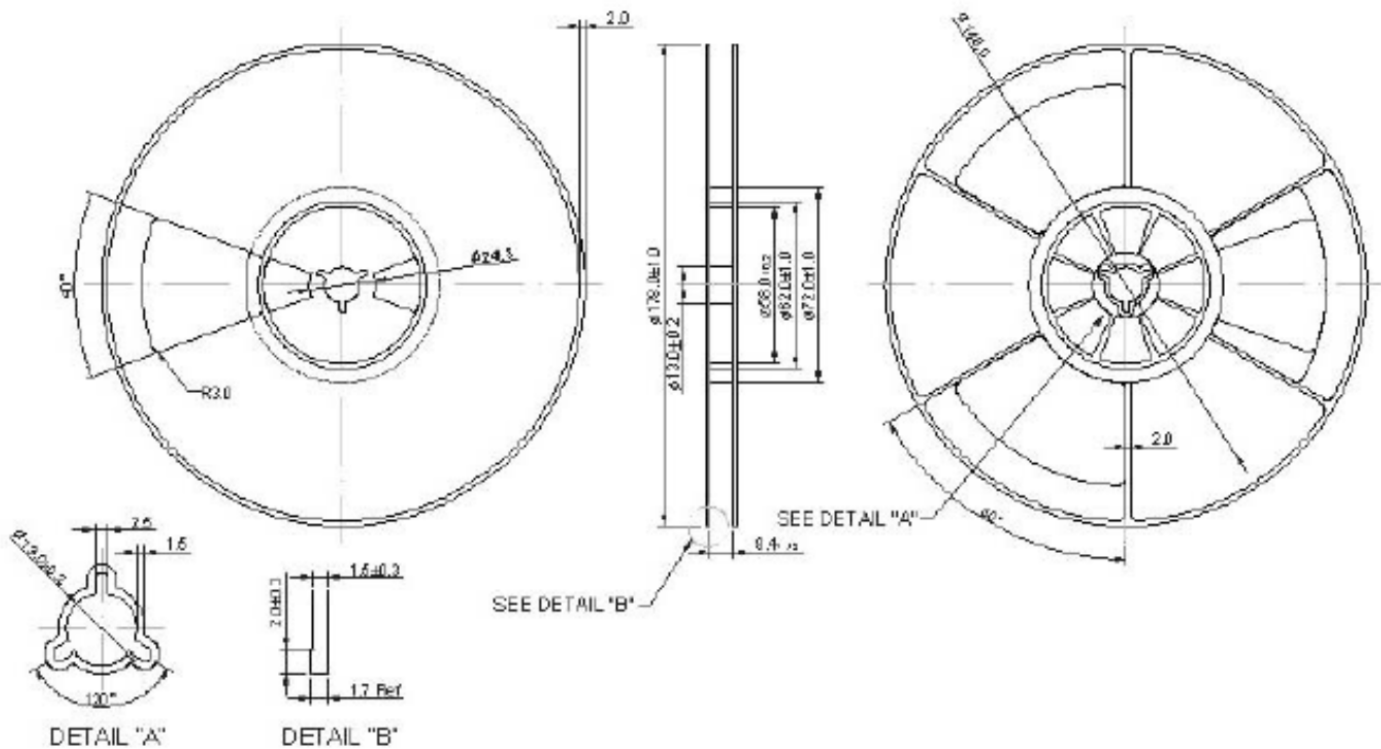


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Packaging

Packaging Type: Reel and Tape
Pieces per Reel: 5k

Reel Dimension



Unit: mm

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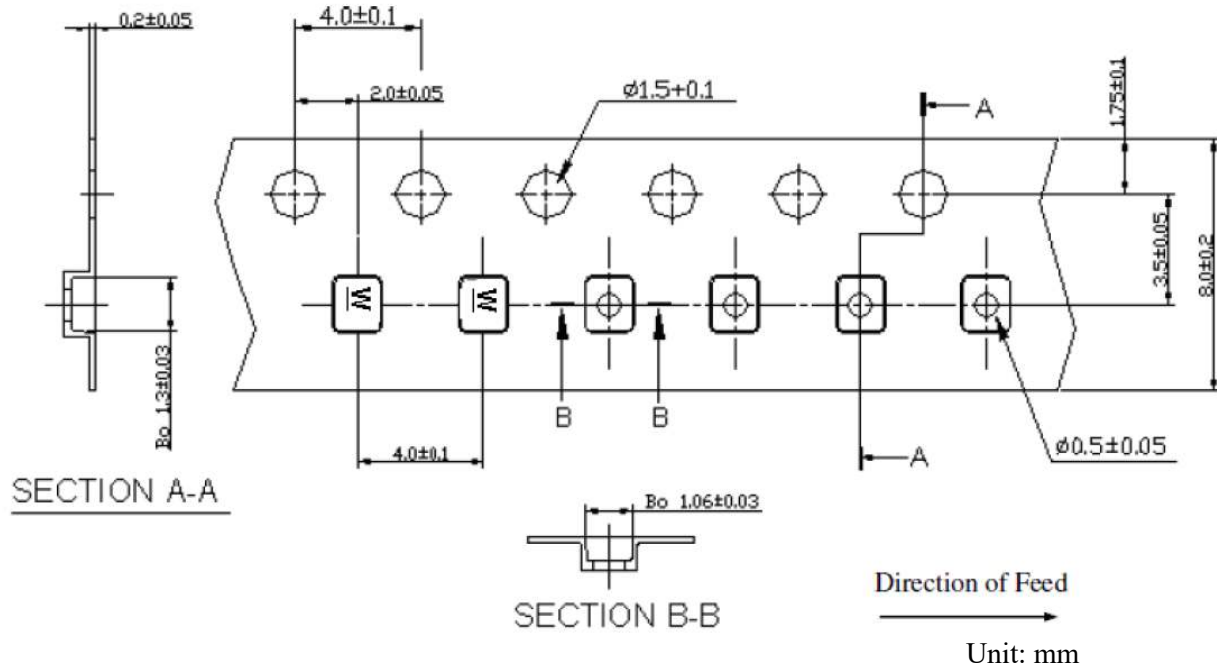


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Tape Dimension



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