

1950 MHz SMD SAW Filter

ABSTS5A2-396M02CM

Request Samples



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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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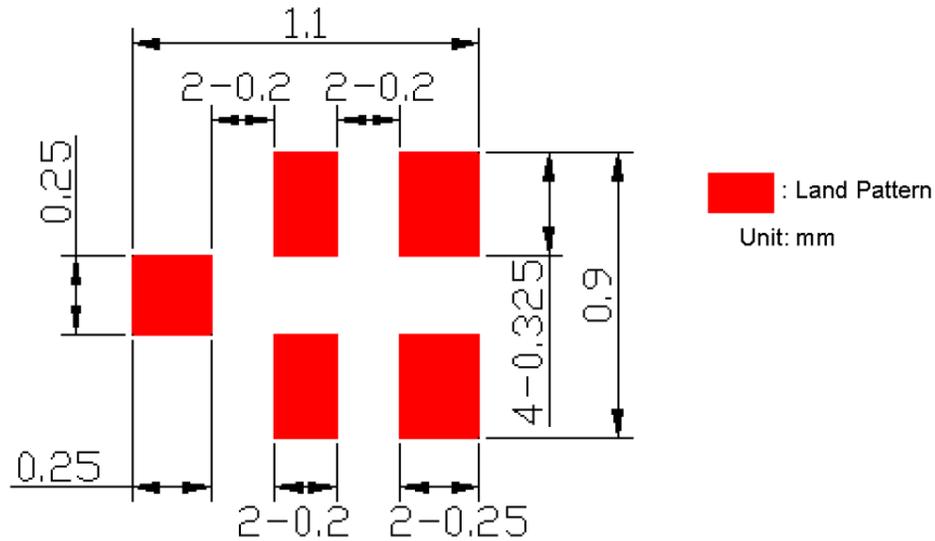


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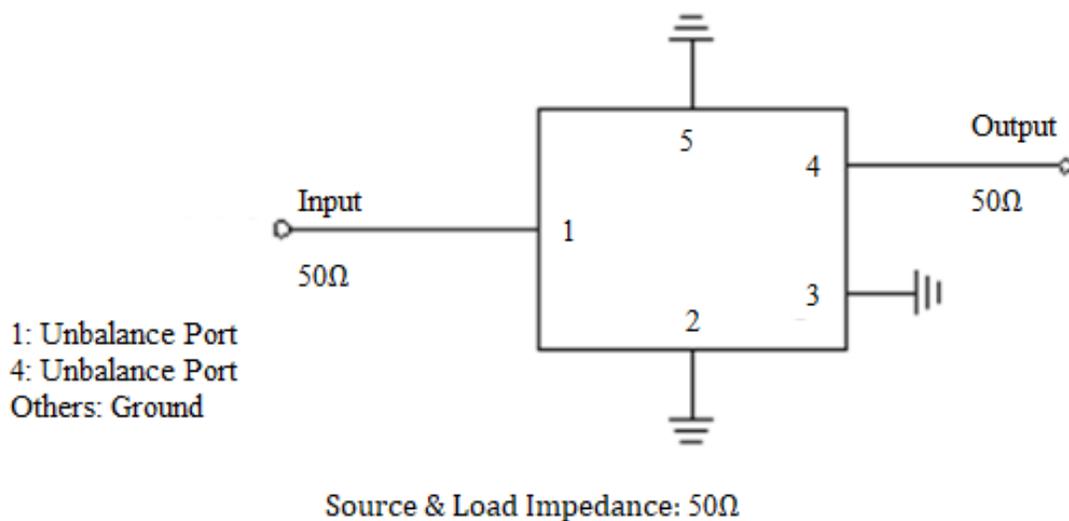


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PCB Footprint



Measurement Circuit



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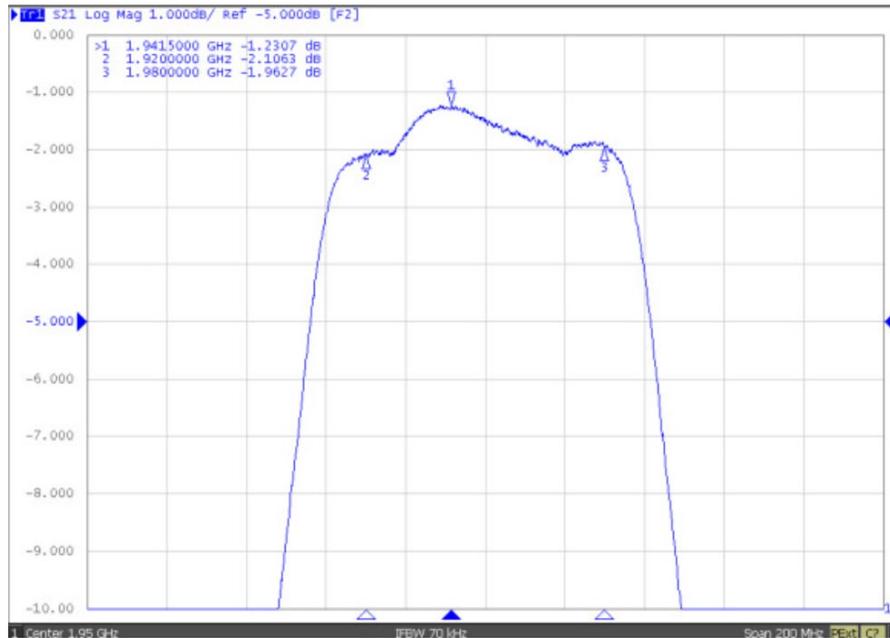
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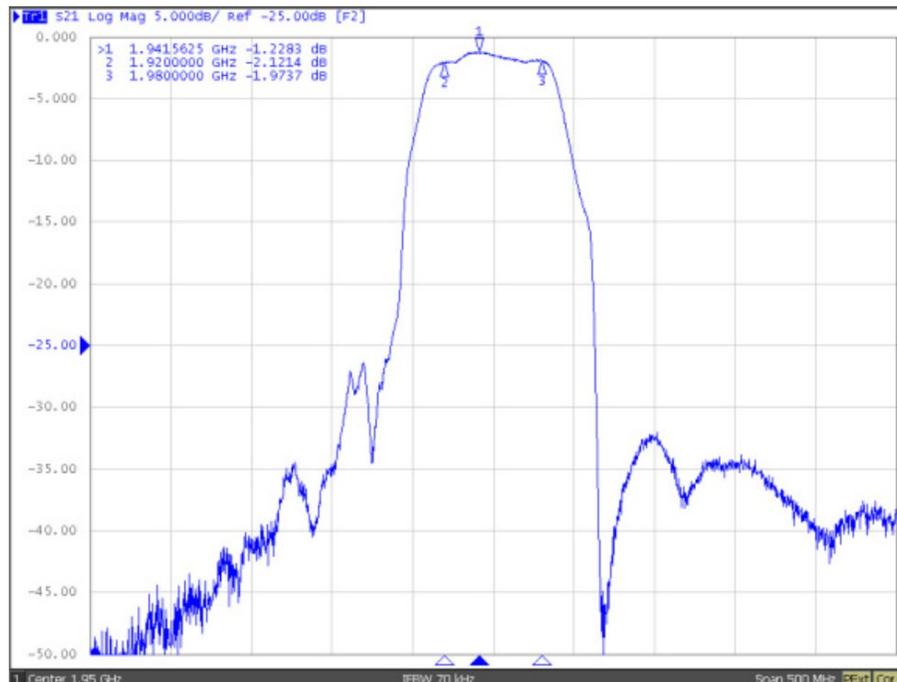
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Transmission Characteristics

S21 (Span 200 MHz)



S21 (Span 500 MHz)



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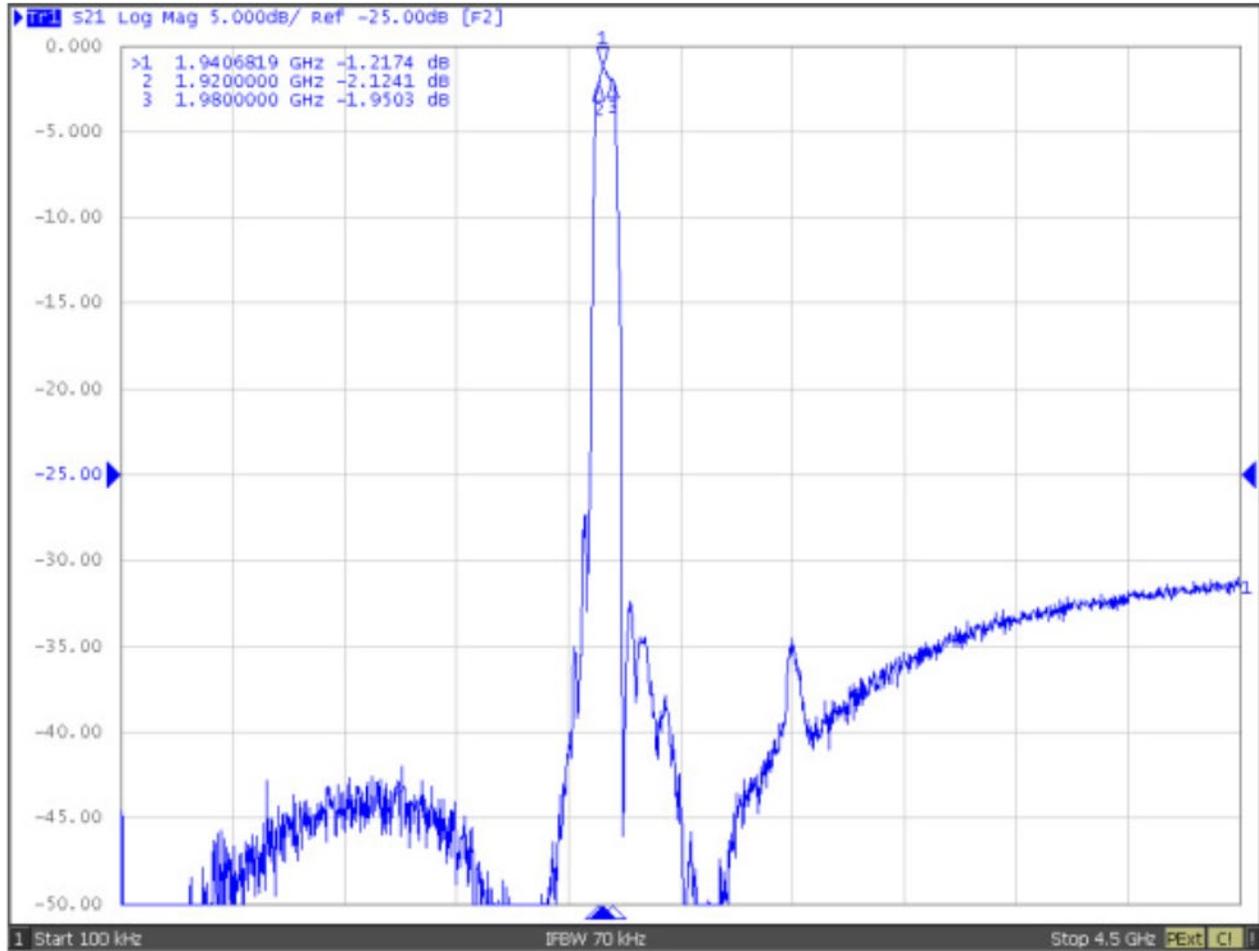


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S21 (Span 4.5 GHz)



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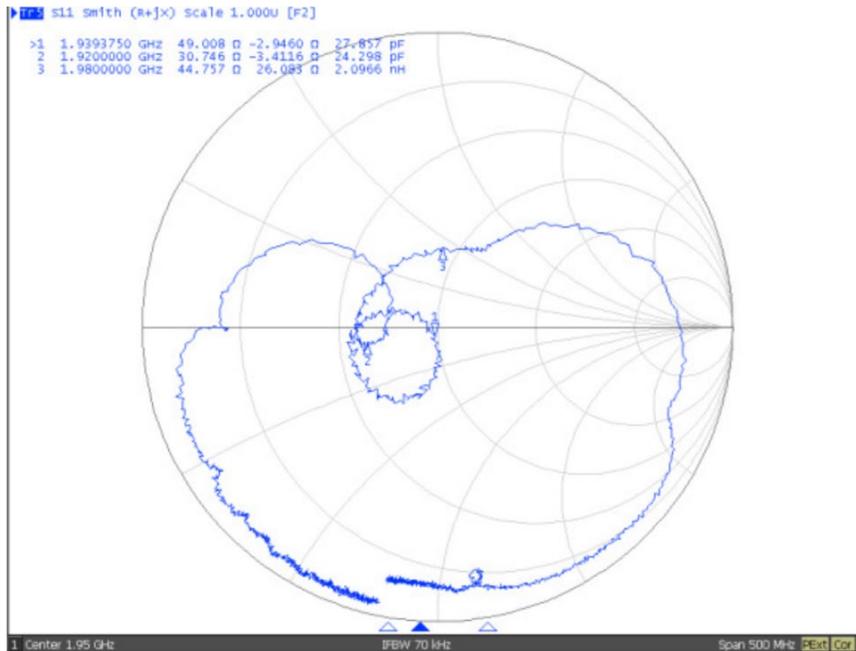
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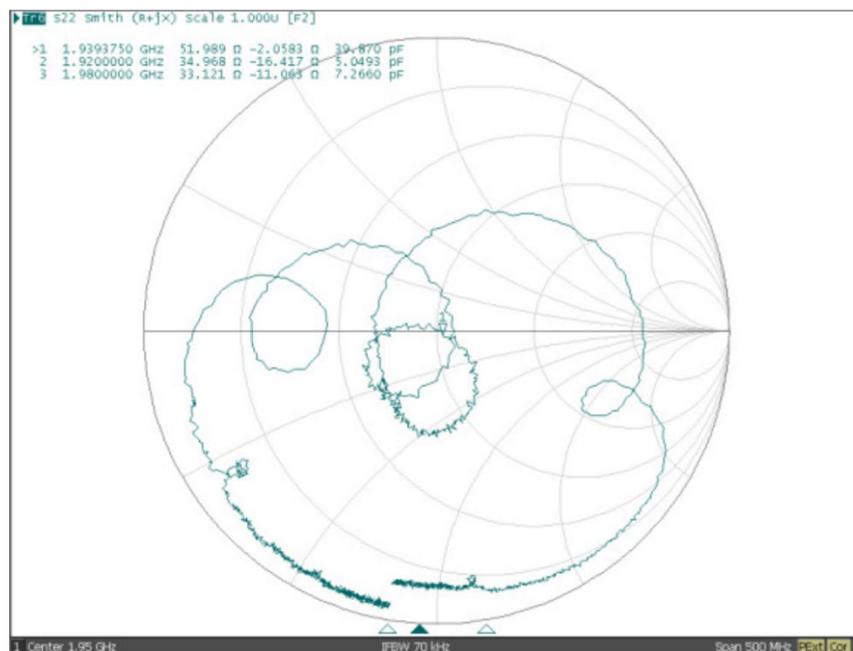
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Smith Charts

S11 (Narrowband)



S22 (Narrowband)



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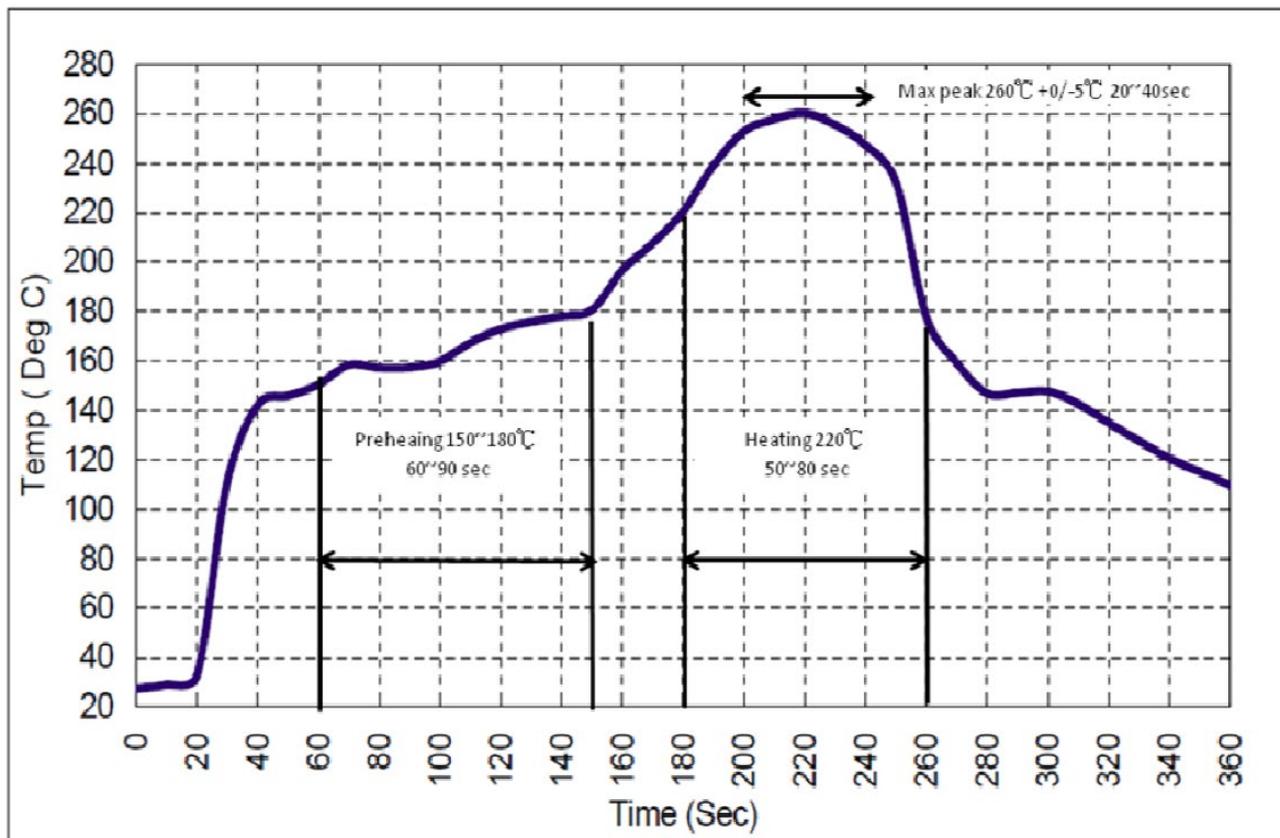
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Recommended Reflow Profile

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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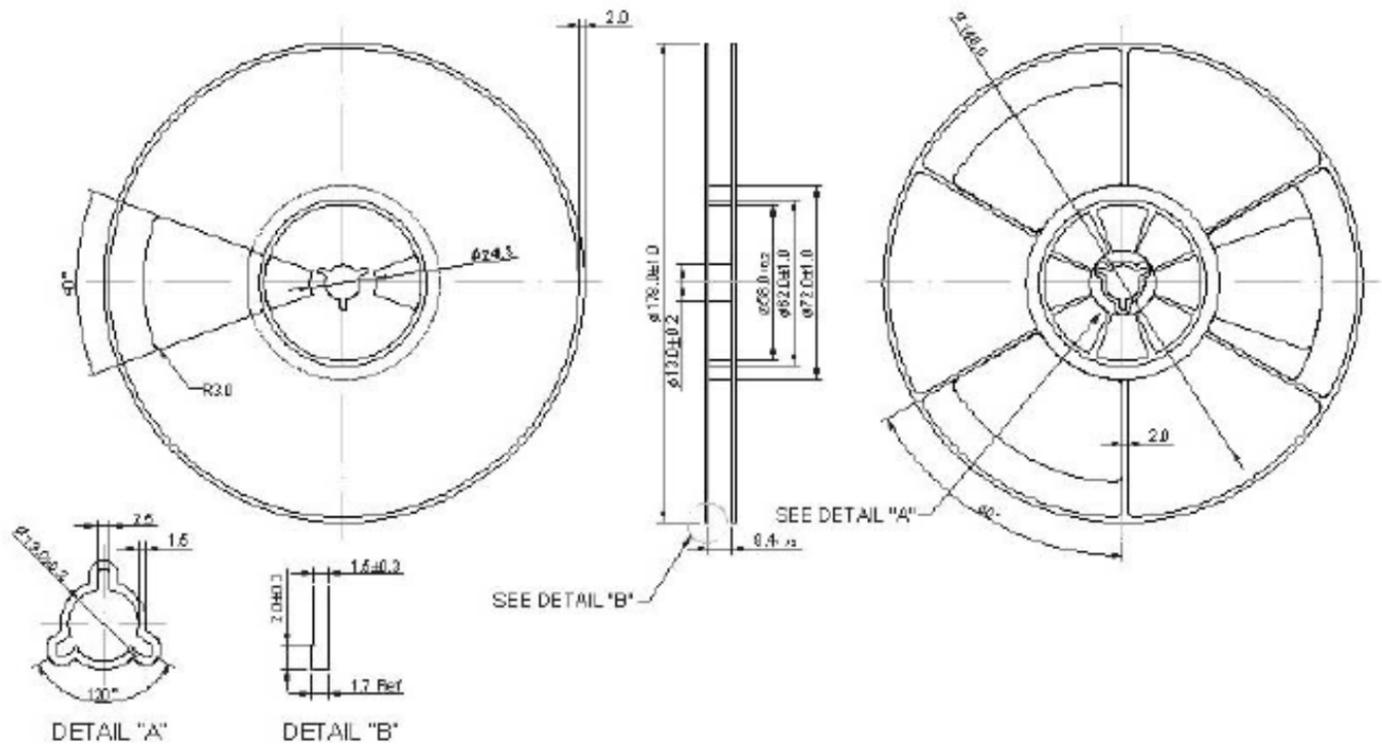


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Packaging

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

Reel Dimension



Unit: mm

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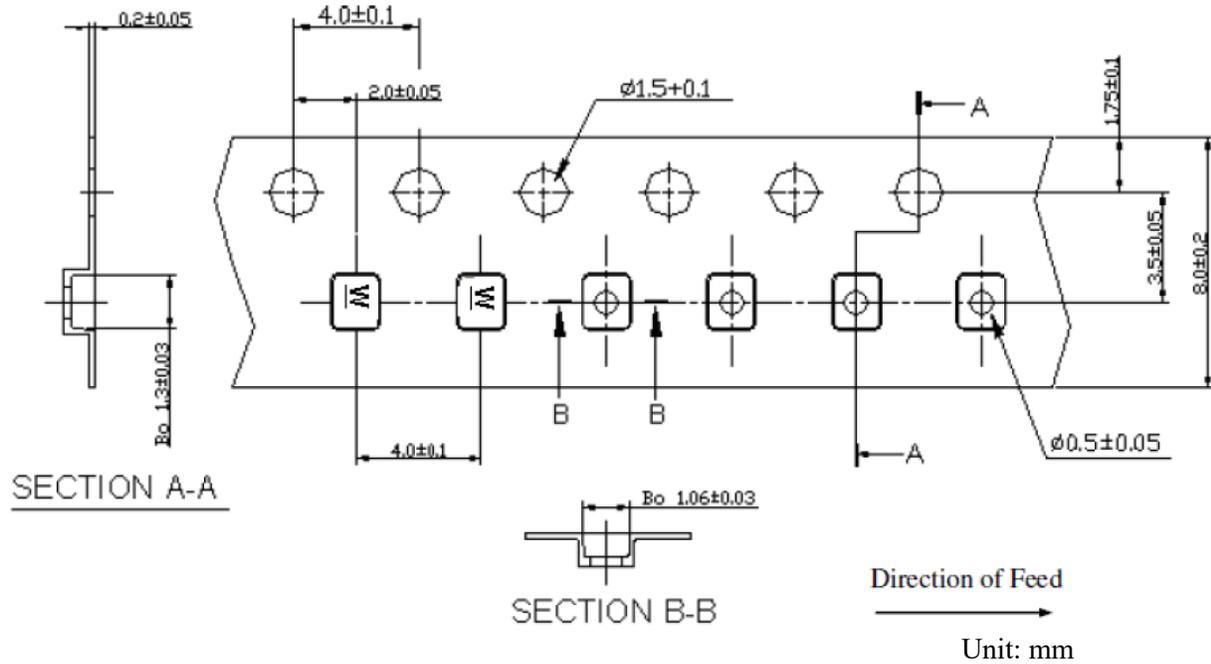


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Tape Dimension



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