

# SMD 1575.420MHz SAW FILTER

AFS1575.42S4



RoHS  
Compliant



3.8 x 3.8 x 1.5mm

## FEATURES:

- Small package 3.8 x 3.8 x 1.5mm
- Low Insertion Loss
- Excellent Attenuation Bandwidth
- 50ohm termination impedance
- High input power rating 10dBm

## APPLICATIONS:

- GPS
- RF devices

## MAXIMUM RATING

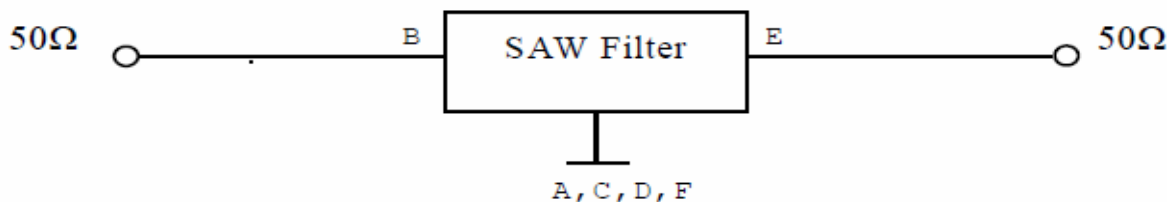
Item	Value
Operating temperature range	-40°C to +85°C
Storage temperature range	-50°C to +100°C
DC Permissive Voltage	0V DC max.
Maximum Input Power	10 dBm

## ELECTRICAL SPECIFICATIONS

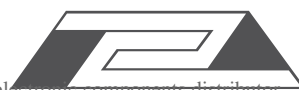
Item	Min	Typ	Max	Unit	
Center Frequency ( $F_c$ )	--	1575.42	--	MHz	
Insertion Loss (IL) 1574.22~1576.62MHz	--	1.5	2.0	dB	
Amplitude Ripple (p-p) 1574.22~1576.62MHz	--	0.15	1.0	dB	
Attenuation (reference level from 0dB)	DC ~ 1382 MHz	37	40	--	dB
	1382 ~ 397 MHz	40	47	--	
	1397 ~ 1478 MHz	40	45	--	
	1478 ~ 1487 MHz	40	47	--	
	1487 ~ 1500 MHz	30	52	--	
	1625 ~ 1640 MHz	30	49	--	
	1640 ~ 2000MHz	38	42	--	
	2000 ~ 3000 MHz	33	38.5	--	
VSWR within 1574.22~1576.62MHz	--	1.1	2.0		
Source Impedance $Z_s$	--	50	--	$\Omega$	
Load Impedance $Z_L$	--	50	--		

## TEST CIRCUIT

HP Network analyzer



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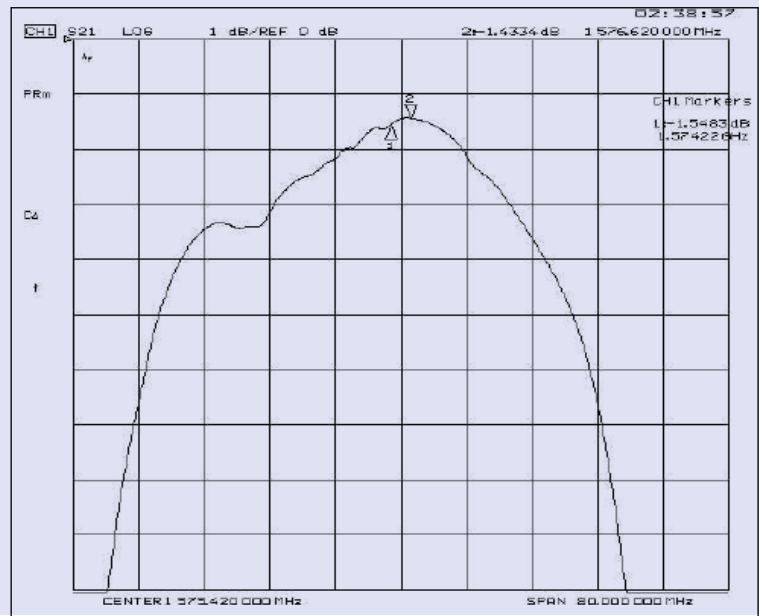
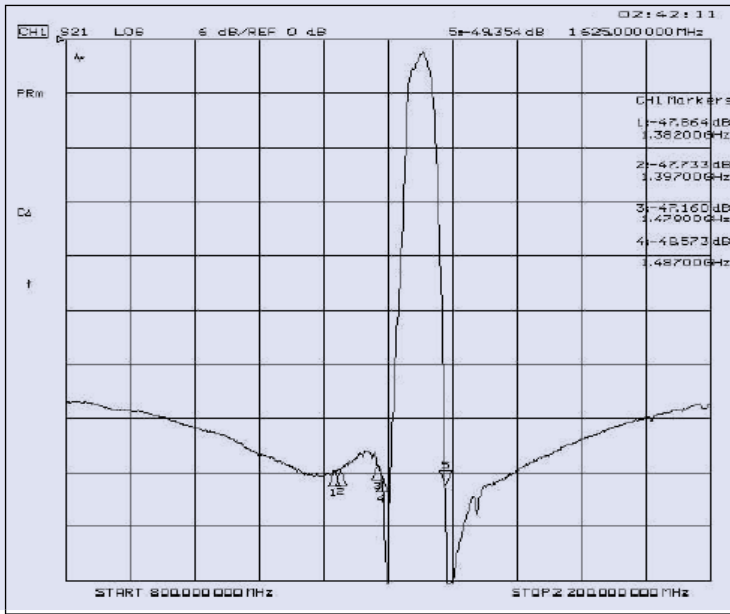
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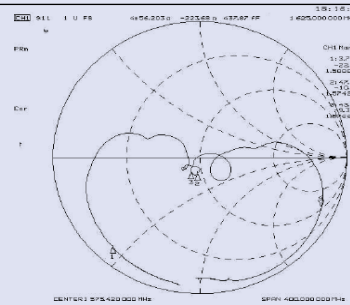
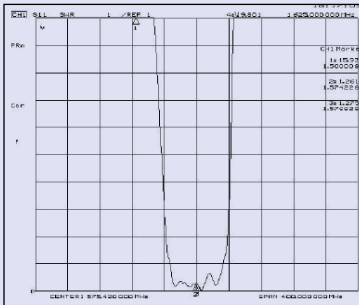
3.8 x 3.8 x 1.5mm

## FREQUENCY CHARACTERISTICS

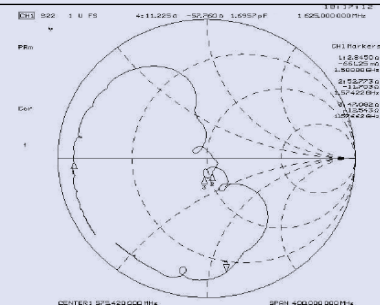
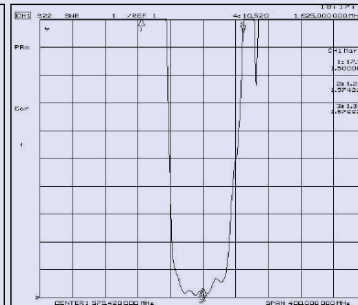


## Reflections Functions:

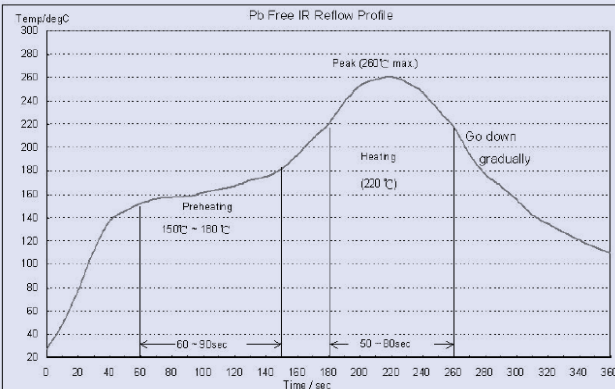
### S11 VSWR



### S22 VSWR



## 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 250±10°C peak (max. 10sec).

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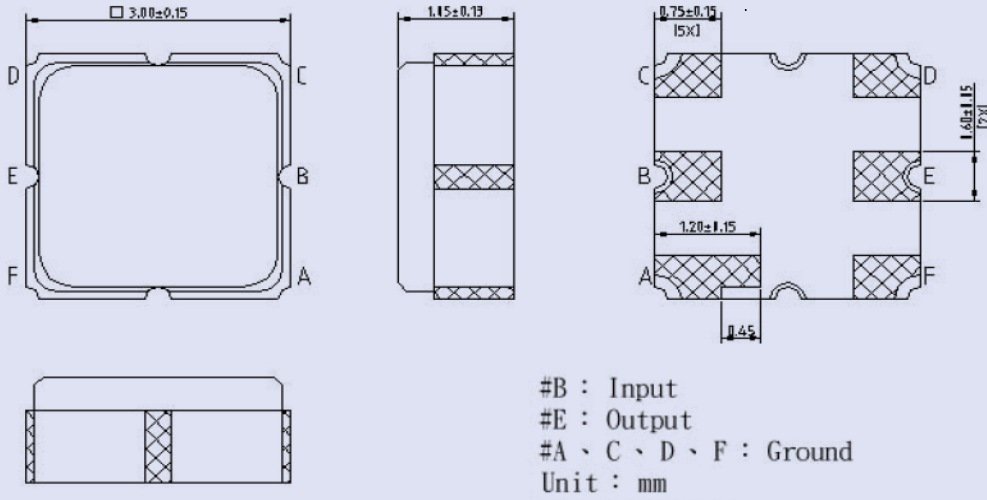
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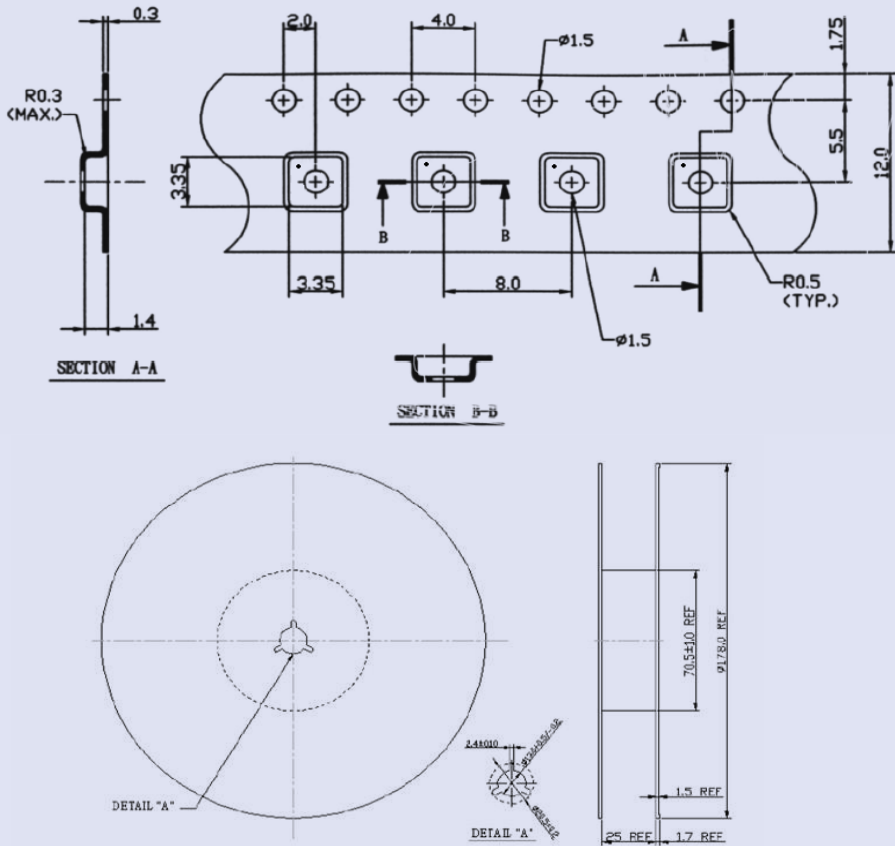


3.8 x 3.8 x 1.5mm

## OUTLINE DIMENSIONS



## PACKING Tape and reel (1,000pcs/reel)



Dimension : mm

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