

SMD 1575.420MHz SAW FILTER

AFS1575.42S4



RoHS
Compliant



3.0 x 3.0 x 1.5mm

FEATURES:

- Small package 3.0 x 3.0 x 1.5mm
- Low Insertion Loss
- Excellent Attenuation Bandwidth
- 50ohm termination impedance
- High input power rating 10dBm

APPLICATIONS:

- GPS
- RF devices

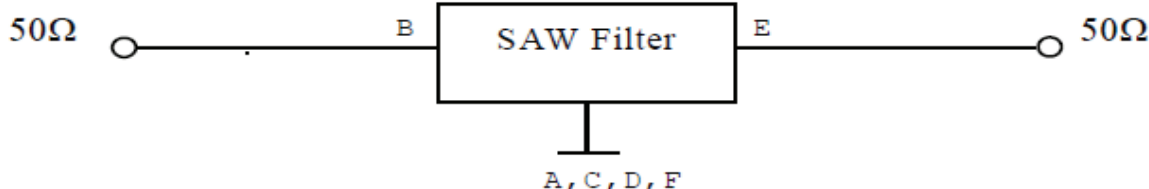
ELECTRICAL SPECIFICATIONS:

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

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	--	?
Load Impedance Z_L		--	50	--	

TEST CIRCUIT

HP Network analyzer



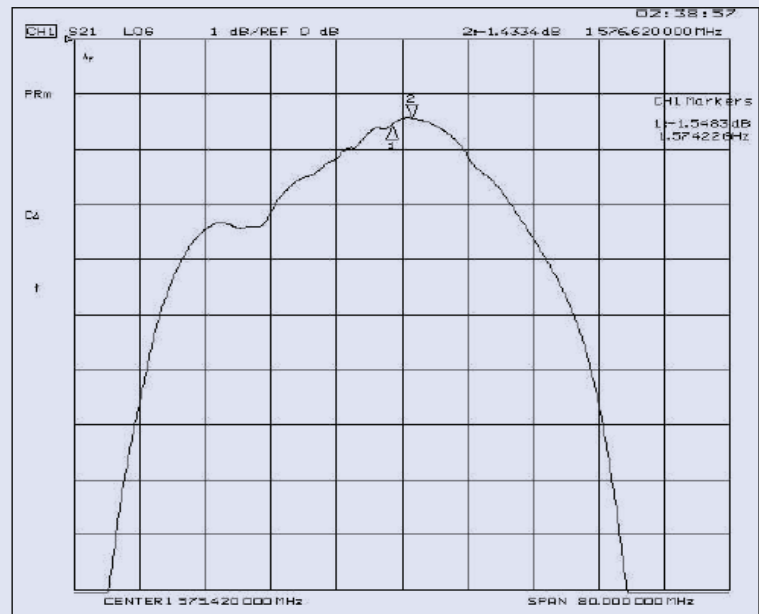
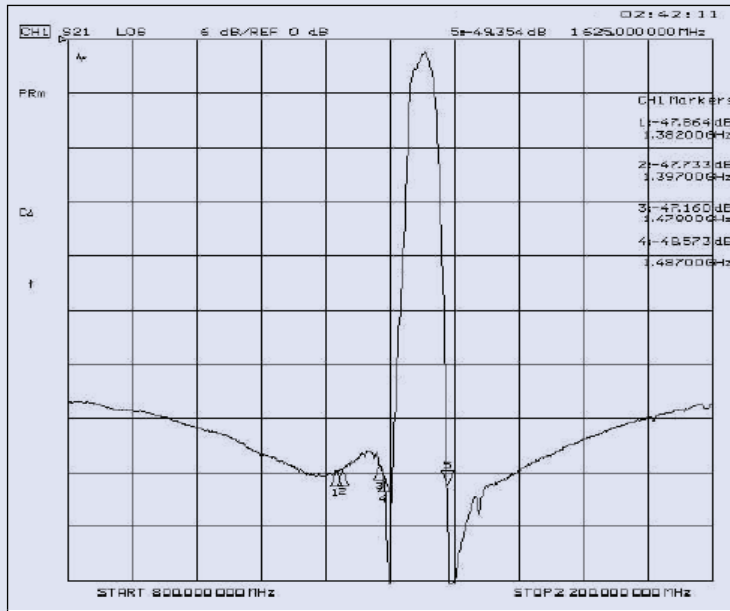
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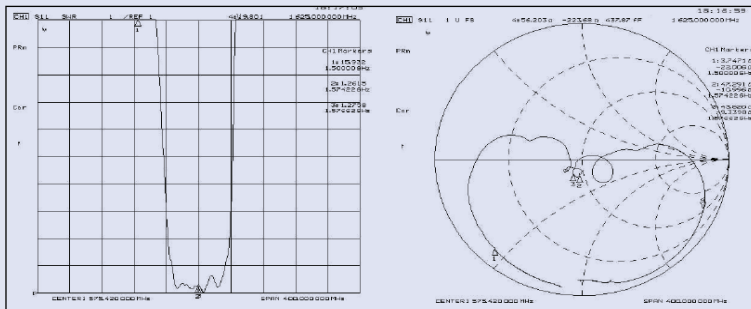
3.0 x 3.0 x 1.5mm

FREQUENCY CHARACTERISTICS:

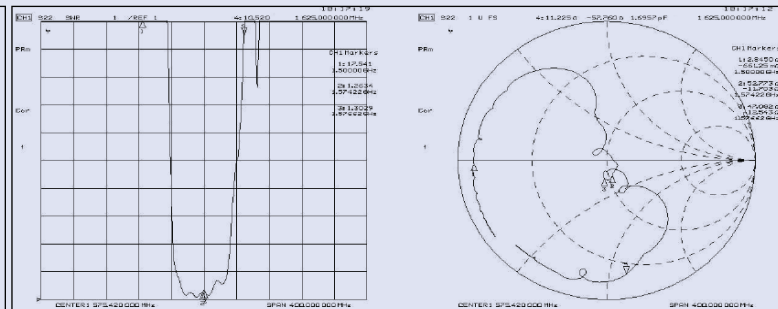


REFLECTIONS FUNCTIONS:

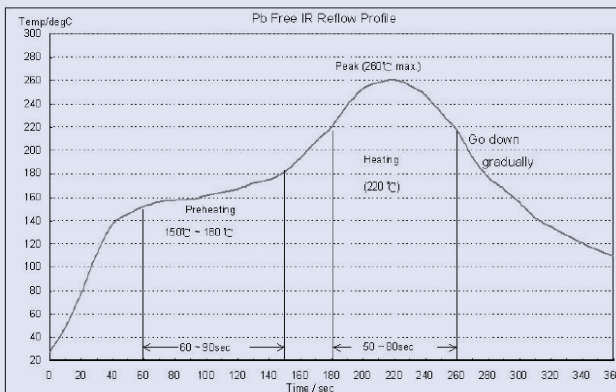
S11 VSWR



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).



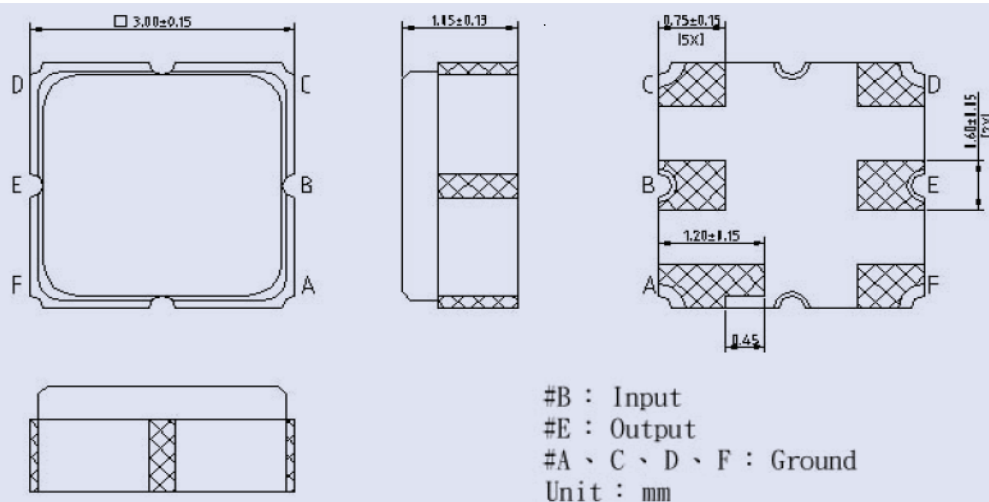
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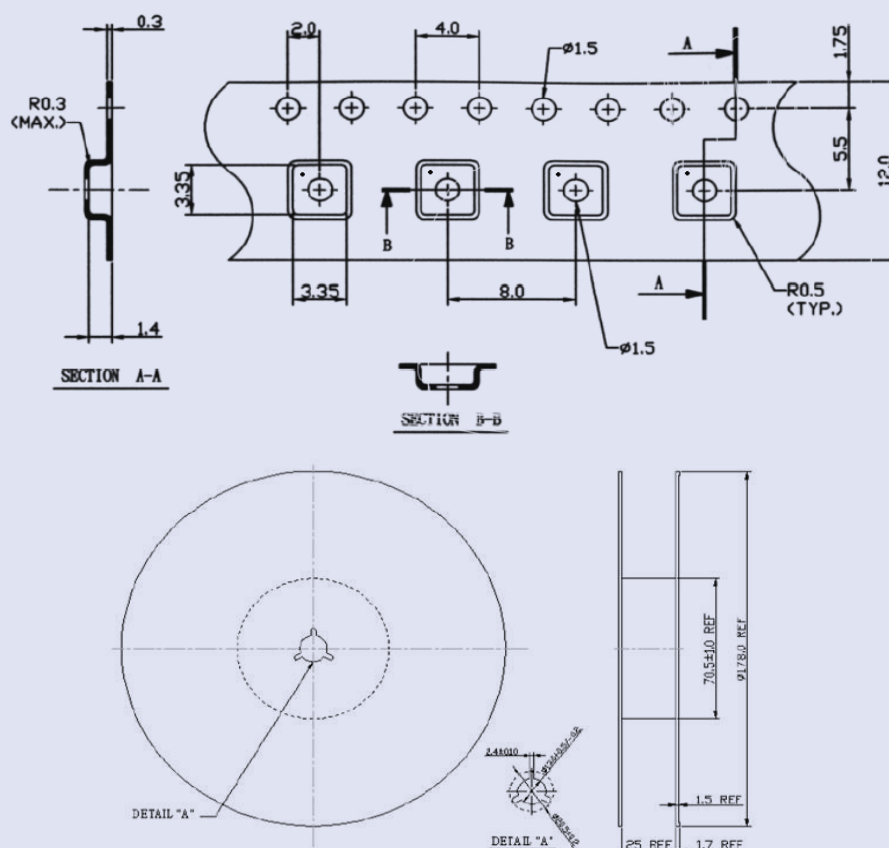


3.0 x 3.0 x 1.5mm

OUTLINE DIMENSIONS:



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



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