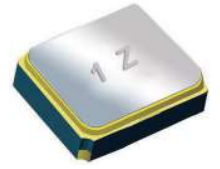


# Surface Mount 2436.00MHz SAW Filter

AFS14A72-2436.00-T2



RoHS  
Compliant



1.4 x 1.1 x 0.7 mm

## FEATURES:

- 1.4 x 1.1 x 0.7 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

## APPLICATIONS:

- Wireless Communication
- Remote Control
- Cellular Phones

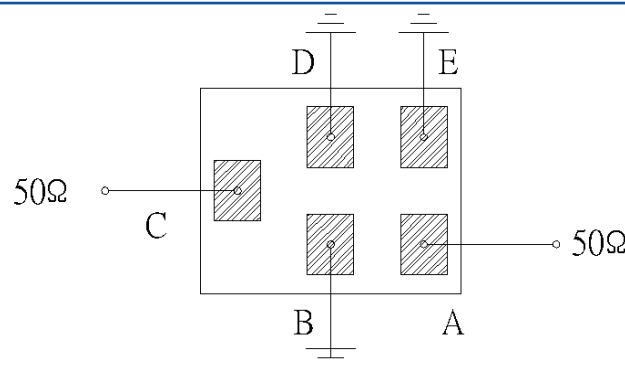
## ELECTRICAL SPECIFICATIONS:

### Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

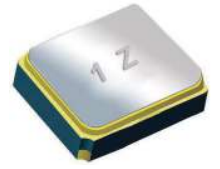
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency ( $f_c$ )		2436.00		MHz	
Insertion Loss (IL)		3.5	4.4	dB	(2400.00~2472.00MHz)
3-dB Bandwidth		72		MHz	
Amplitude Ripple		2.0	3.3	dB	(2400.00~2472.00MHz)
Worst-Case Input / Output Return Loss		9.54	7.35	dB	
Stop-band Attenuation (Referenced to 0.0 dB)	25	35		dB	DC~960 MHz
	25	33			960~1580 MHz
	25	34			1710~1990 MHz
	28	37			2110~2170 MHz
	30	40			<b>2496~2690MHz @ 25°C</b>
	10	20			2496~2690MHz over the operating temperature
	25	44			2690~4800MHz
	20	36			4800~5000MHz
	15	31			5000~6000MHz
Terminating Source Impedance ( $Z_s$ )		50		$\Omega$	
Temperature Coefficient of Frequency		-36		ppm/°C	

## TEST CIRCUIT:



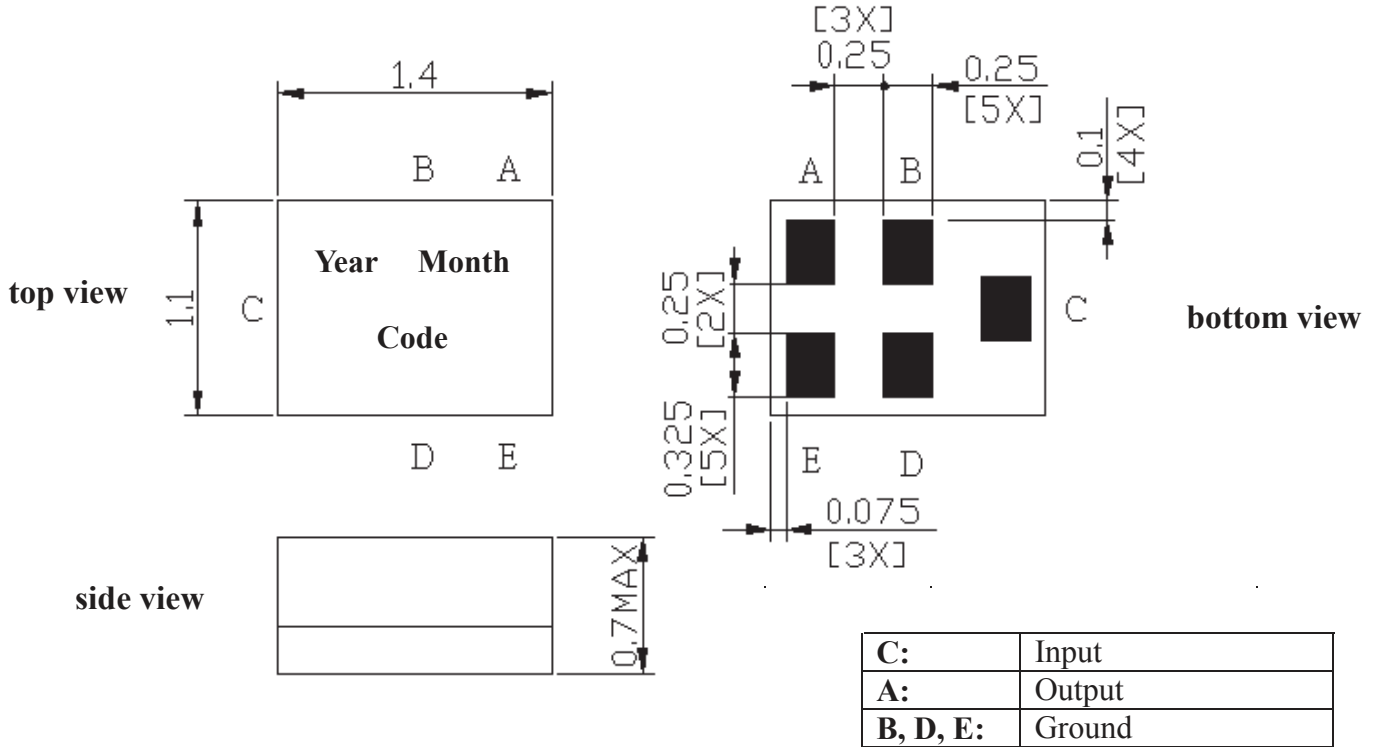
# Surface Mount 2436.00MHz SAW Filter

AFS14A72-2436.00-T2



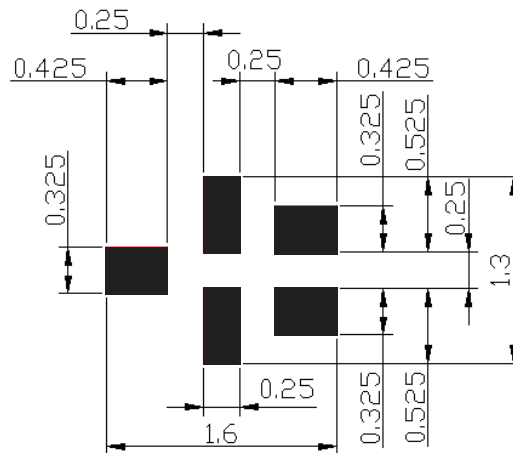
1.4 x 1.1 x 0.7 mm

## OUTLINE DIMENSIONS:



\*All Dimensions are in mm

## Recommended Land Pattern:



■ : Land Pattern

Unit : mm

# Surface Mount 2436.00MHz SAW Filter

AFS14A72-2436.00-T2



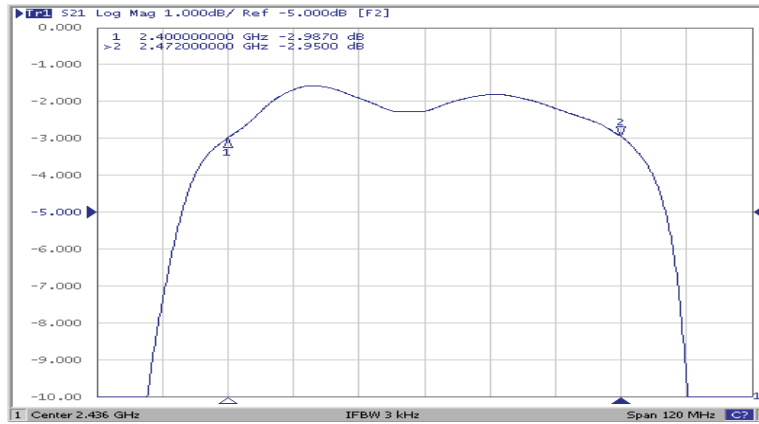
RoHS  
Compliant



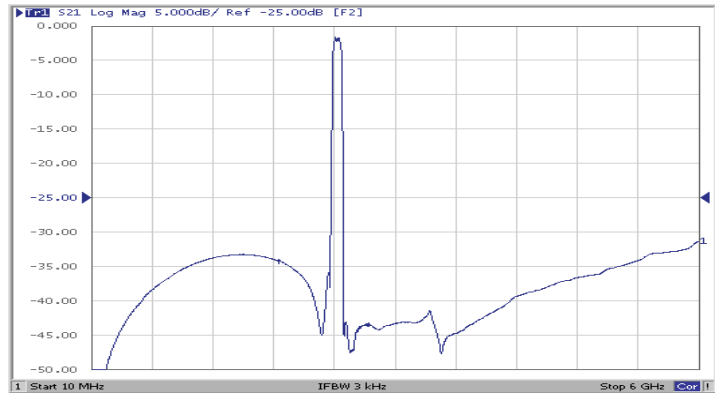
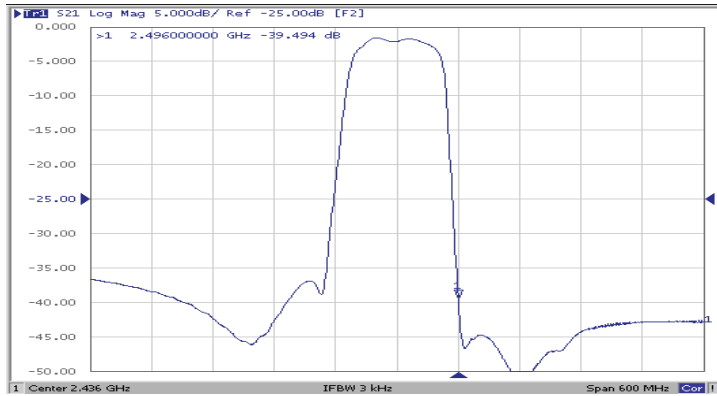
1.4 x 1.1 x 0.7 mm

## FREQUENCY CHARACTERISTICS:

### Filter Frequency Response (Narrowband)

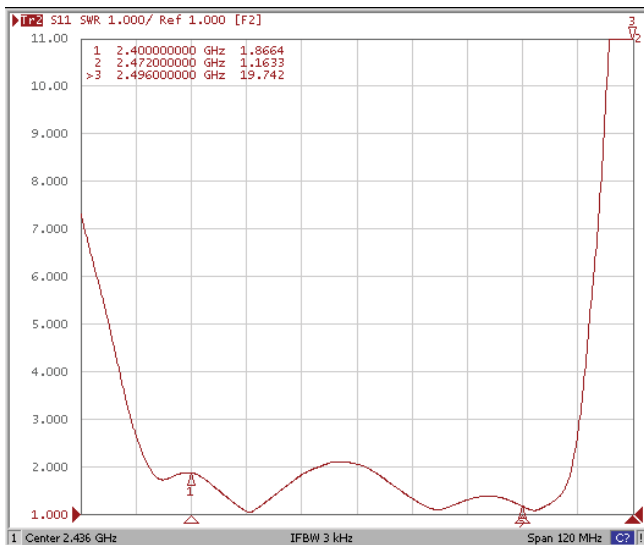


### Filter Frequency Response (Wideband)

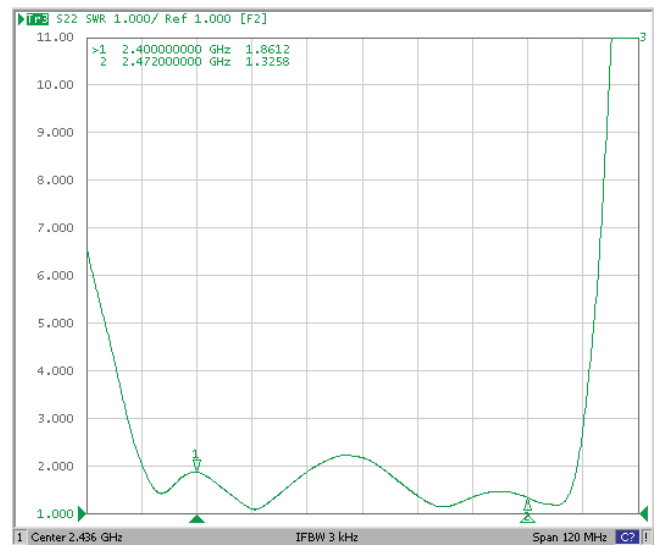


## REFLECTION FUNCTIONS:

### S11



### S22



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# Surface Mount 2436.00MHz SAW Filter

AFS14A72-2436.00-T2

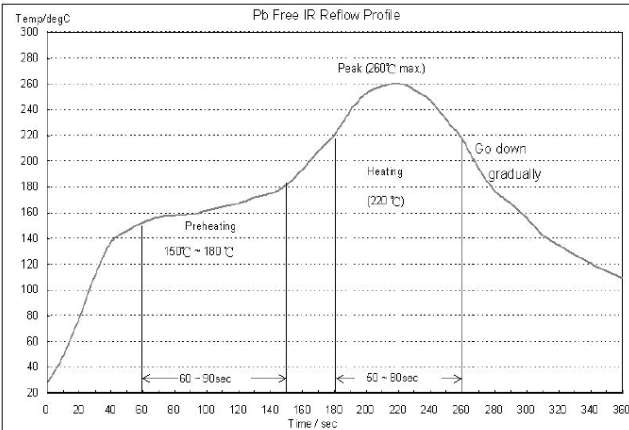


**RoHS**  
Compliant



1.4 x 1.1 x 0.7 mm

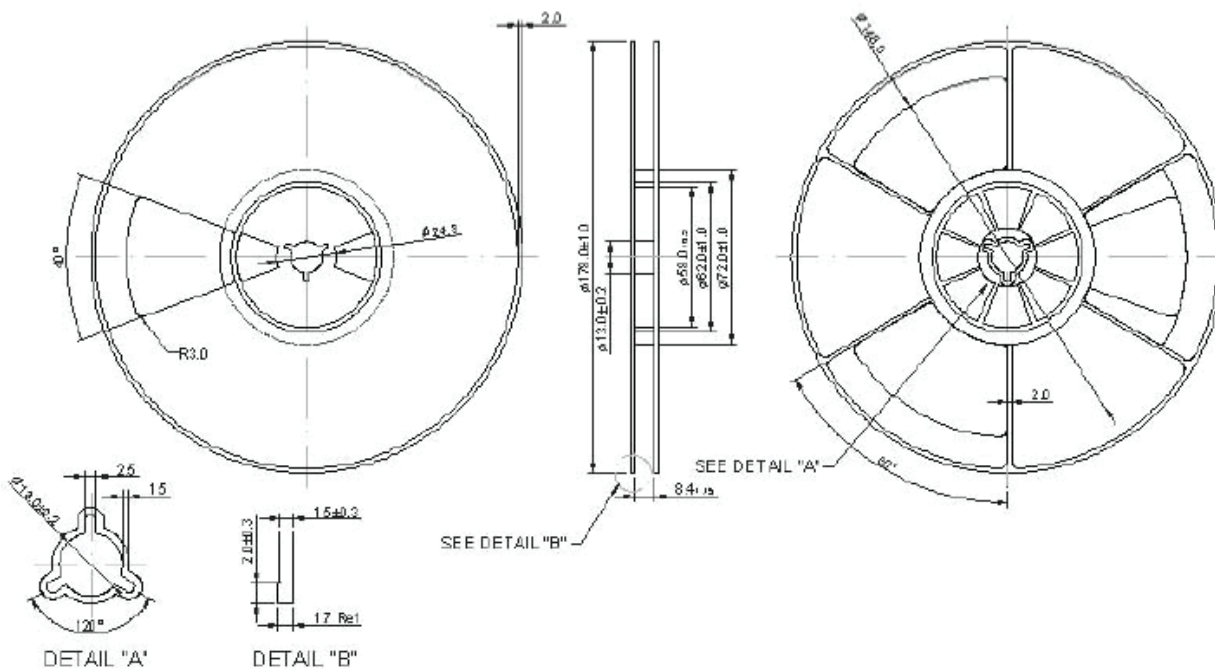
## REFLOW PROFILE:



- Preheating shall be fixed at 150~180°C for 60~90 seconds.
- Ascending time to preheating temperature 150°C shall be 30 seconds min.
- Heating shall be fixed at 220°C for 50~80 seconds and at 250±10°C peak (max. 10sec). Time : 2 times

## PACKAGING: 2000 Units/Reel

Reel Count : 7" = 2k units



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