

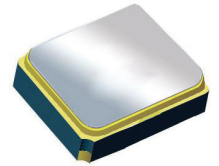
# Surface Mount 2185.00MHz SAW Filter

AFS14A30-2185.00-T3

Moisture Sensitivity Level (MSL) = 3



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

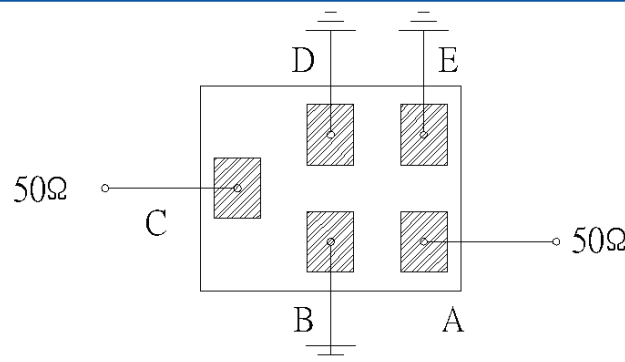
## ELECTRICAL SPECIFICATIONS:

### Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30°C to + 105°C
Storage Temperature Range	-40°C to + 105°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency ( $f_c$ )		2185		MHz	
Insertion Loss (IL)		2.0	3.50	dB	(2170.00~2200.00MHz)
Effective Bandwidth		30.00		MHz	
Amplitude Ripple		0.50	2.30	dB	(2170.00~2200.00MHz)
Worst-Case Input / Output Return Loss		12.73	10.88	dB	(2170.00~2200.00MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	29	30.5		dB	DC~1980 MHz
	32	39.4			1980~2010 MHz
	20	32			2010~2110 MHz
	20	27			2260~2300 MHz
	29	34			2300~3500 MHz
	20	23			3500~6000 MHz
Terminating Source Impedance ( $Z_S$ )		50		$\Omega$	
Temperature Coefficient of Frequency		-36		ppm/°C	

## TEST CIRCUIT:



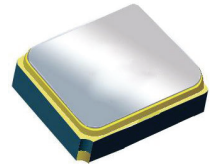
Bottom View

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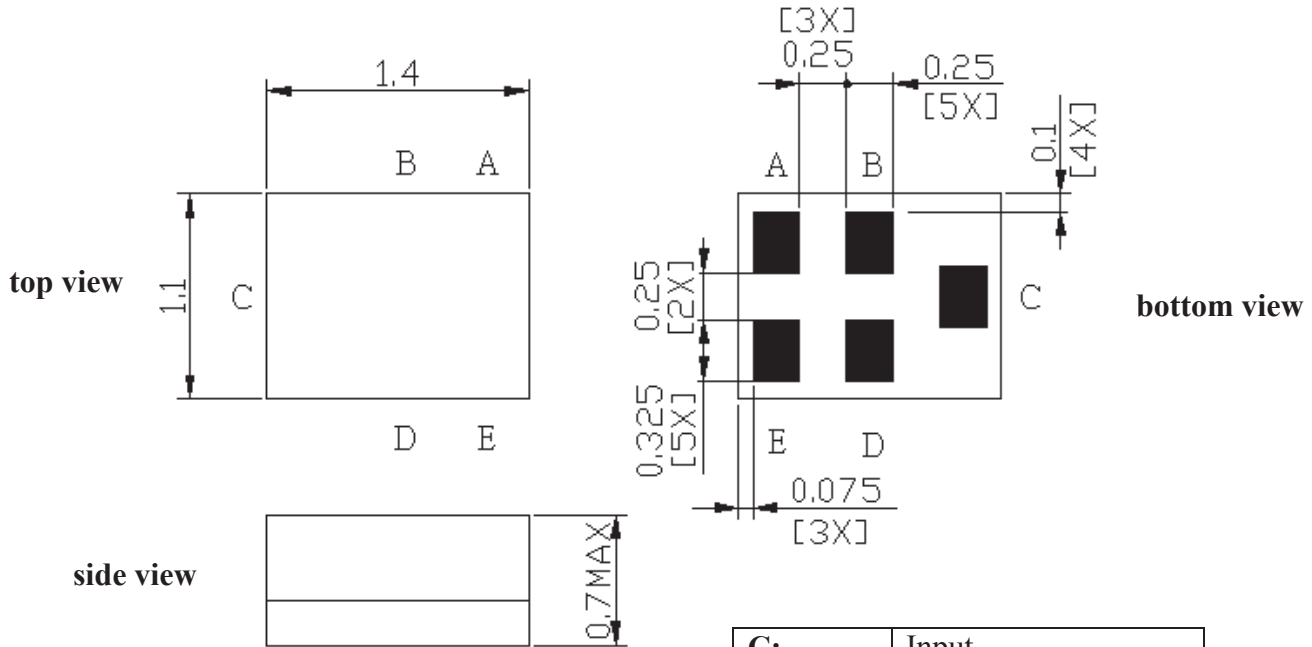


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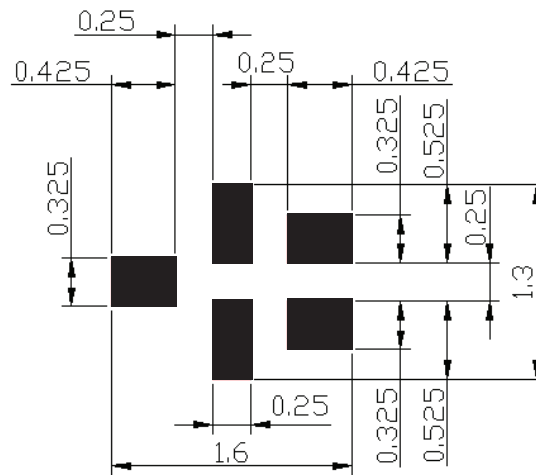
## OUTLINE DIMENSIONS:



C:	Input
A:	Output
B, D, E:	Ground

\*All Dimensions are in mm

### Recommended Land Pattern:



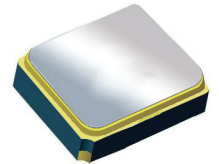
■ : Land Pattern  
Unit : mm

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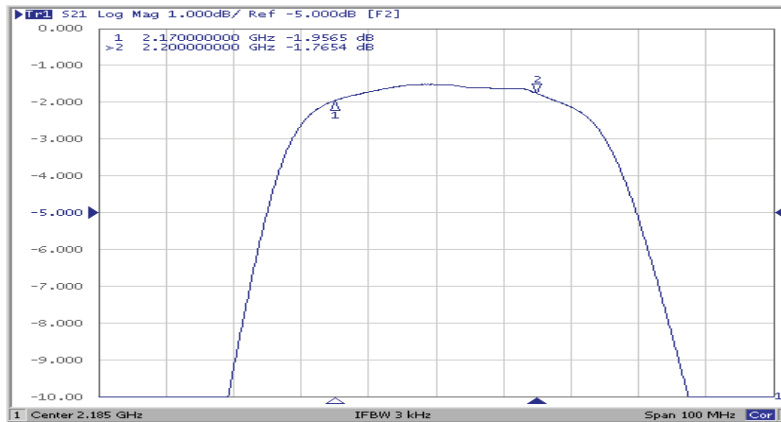
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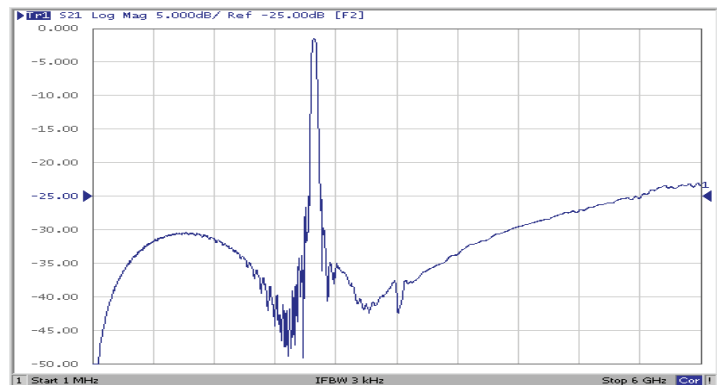
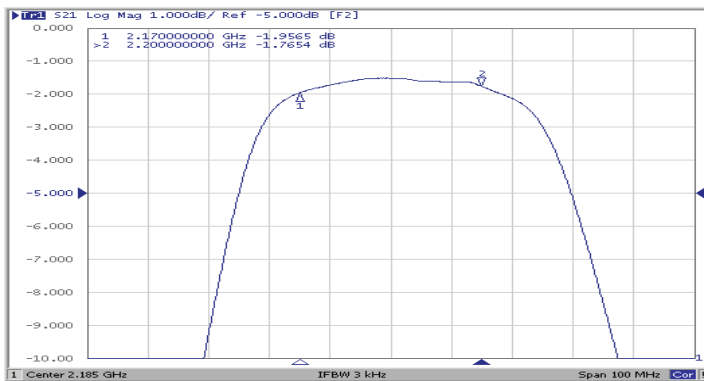
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## FREQUENCY CHARACTERISTICS:

### Filter Frequency Response (Narrowband)

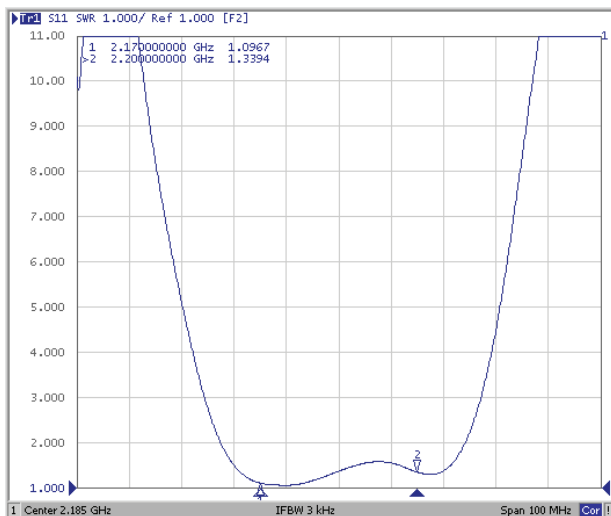


### Filter Frequency Response (Wideband)

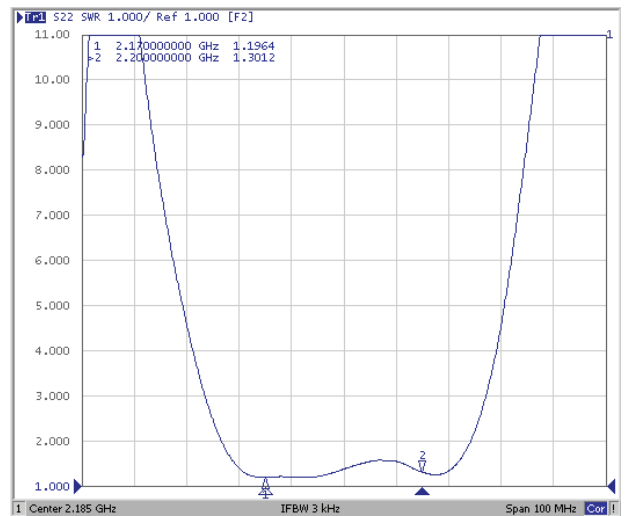


## REFLECTION FUNCTIONS:

### S11



### S22



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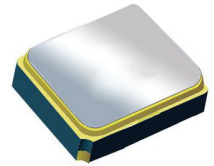
Revised: 04.16.13

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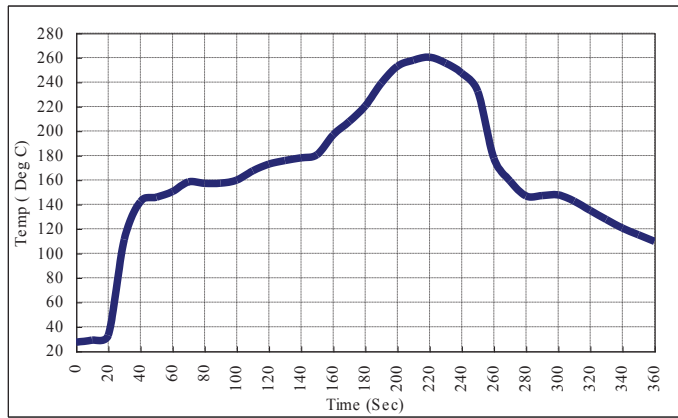


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Compliant



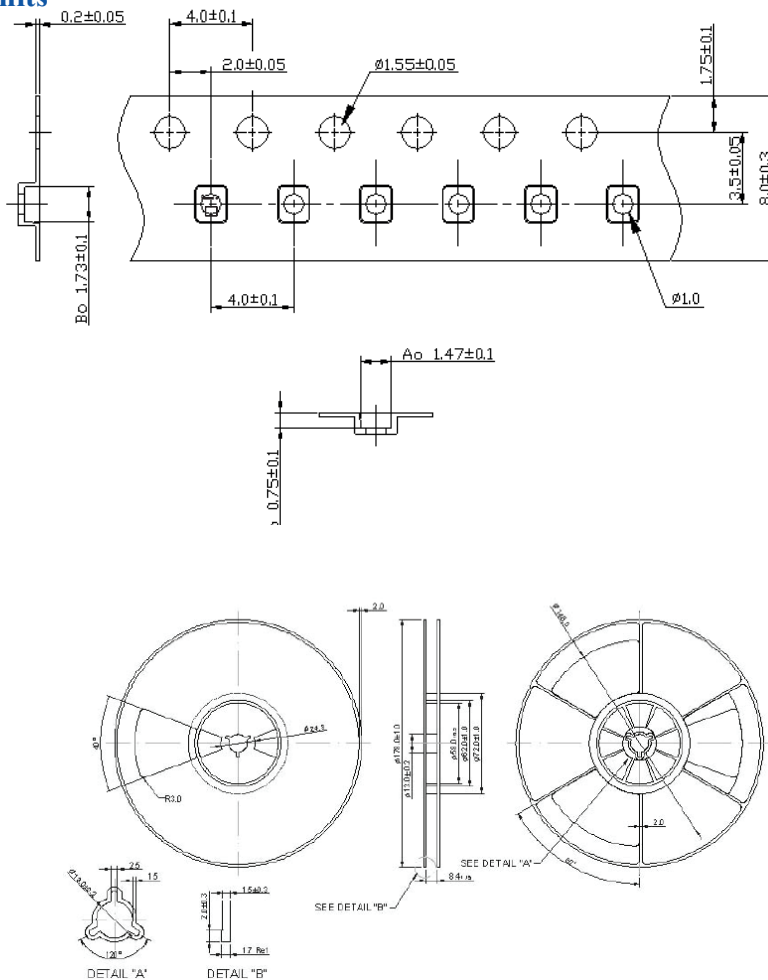
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## REFLOW PROFILE:



## PACKAGING: 3000 Units/Reel "T2" parts (2k/reel) are no longer available effective 01/01/2013

Reel Count : 7" = 3k units



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