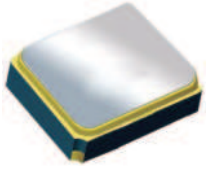
Surface Mount 2185.00MHz SAW Filter

AFS14A30-2185.00-T3

Moisture Sensitivity Level (MSL) = 3

Pb 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

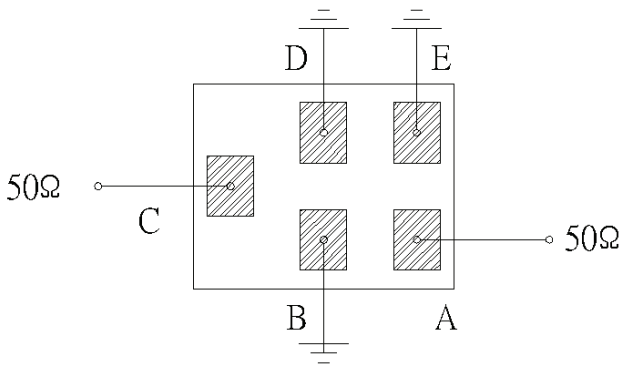
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

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

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		Ω	
Temperature Coefficient of Frequency		-36		ppm/ºC	

TEST CIRCUIT:



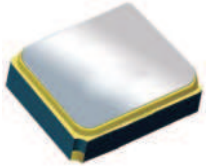
Bottom View

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Surface Mount 2185.00MHz SAW Filter

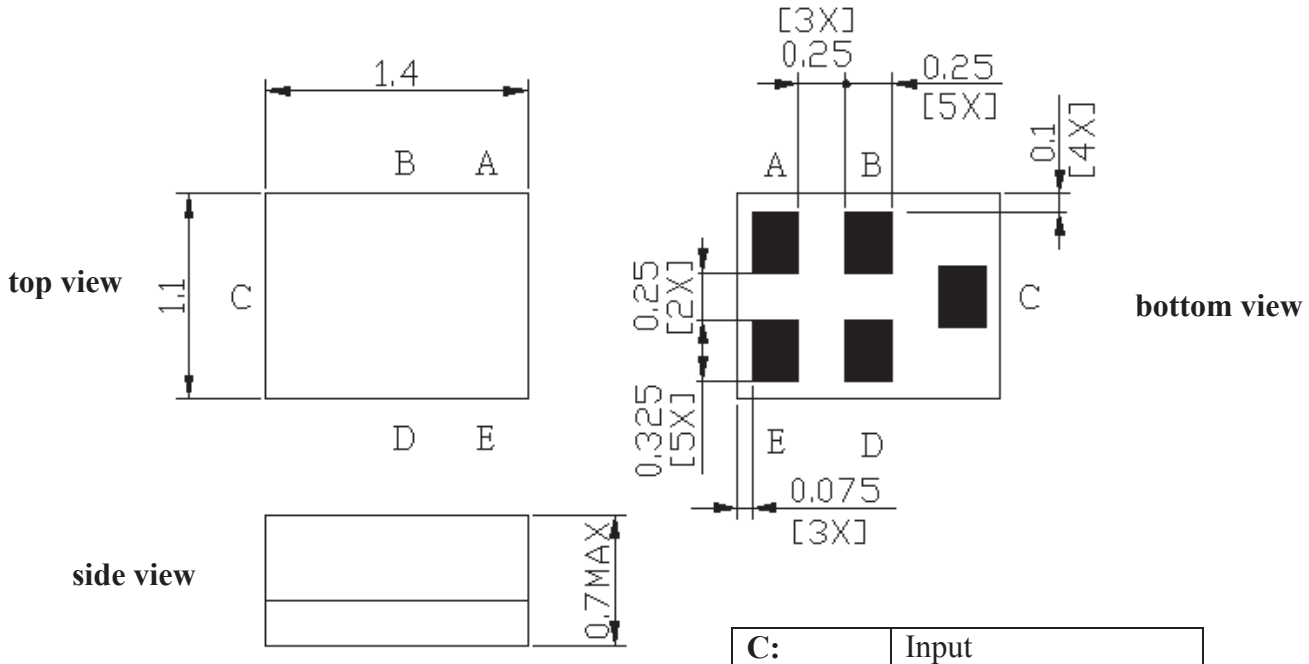
AFS14A30-2185.00-T3

Pb RoHS Compliant



1.4 x 1.1 x 0.7 mm

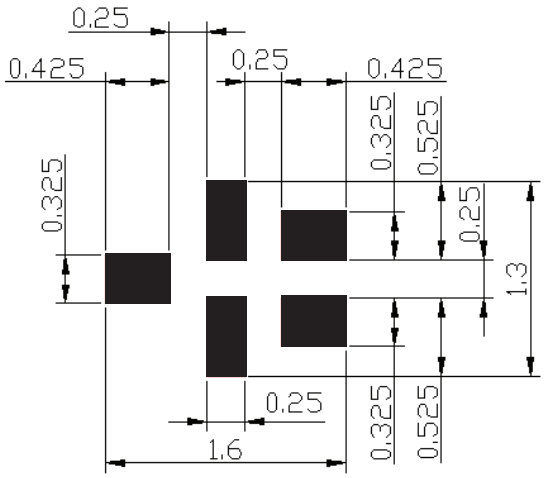
OUTLINE DIMENSIONS:



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

*All Dimensions are in mm

Recommended Land Pattern:



: Land Pattern

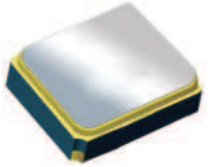
Unit : mm

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Surface Mount 2185.00MHz SAW Filter

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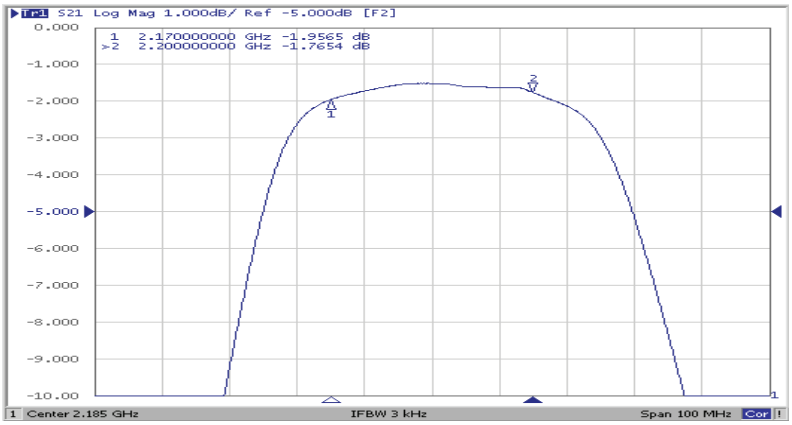
Pb RoHS Compliant



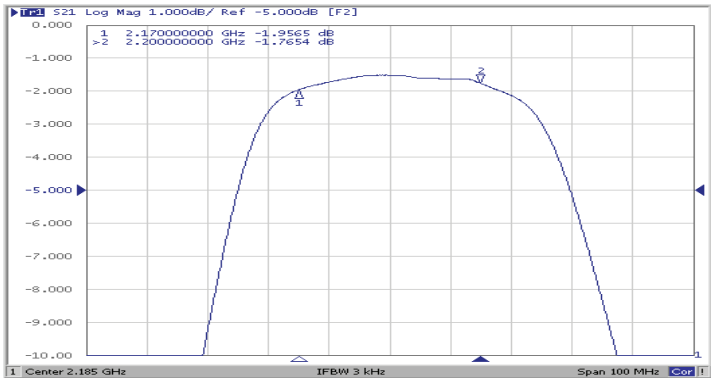
1.4 x 1.1 x 0.7 mm

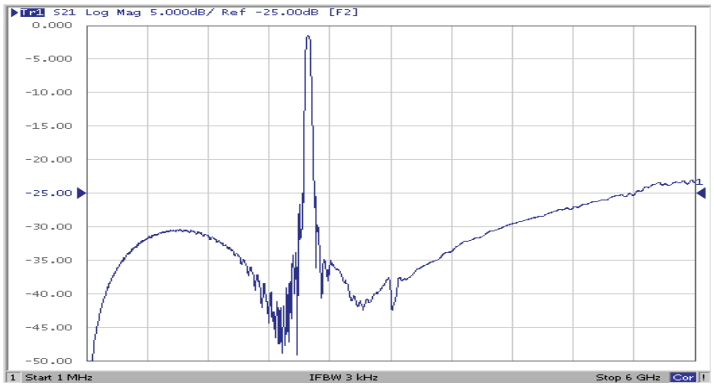
FREQUENCY CHARACTERISTICS:

Filter Frequency Response (*Narrowband*)



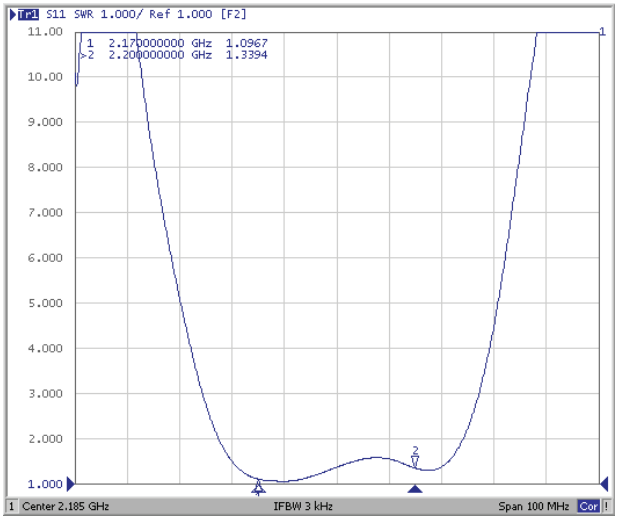
Filter Frequency Response (*Wideband*)



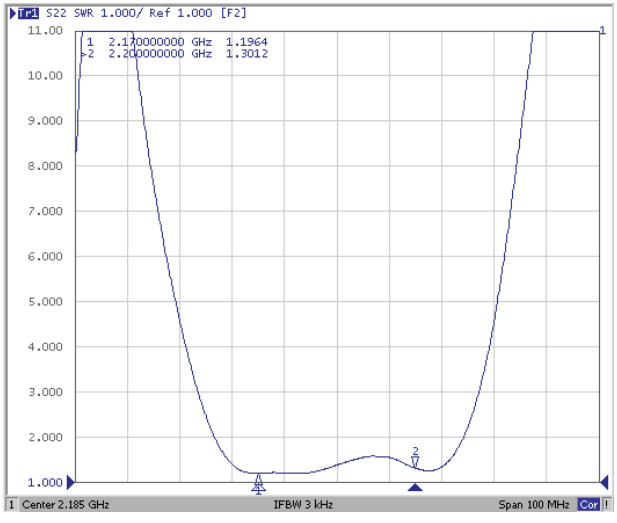


REFLECTION FUNCTIONS:

S11



S22

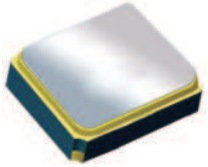


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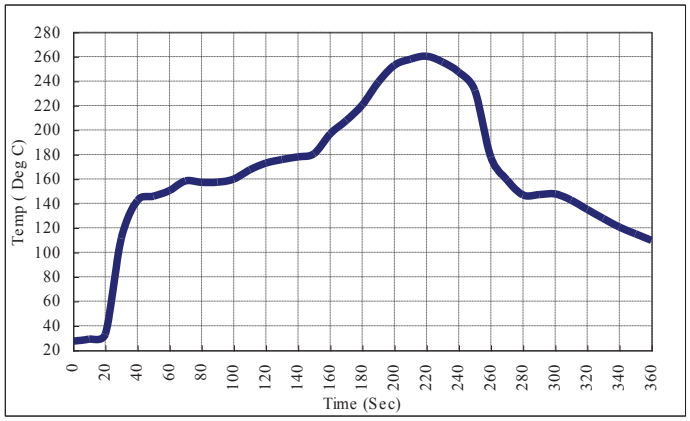
AFS14A30-2185.00-T3

Pb RoHS Compliant



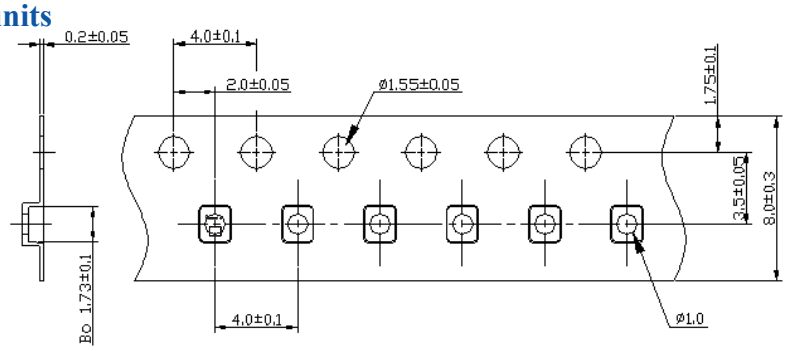
1.4 x 1.1 x 0.7 mm

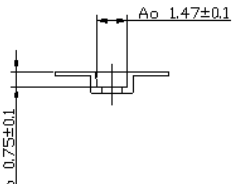
REFLOW PROFILE:

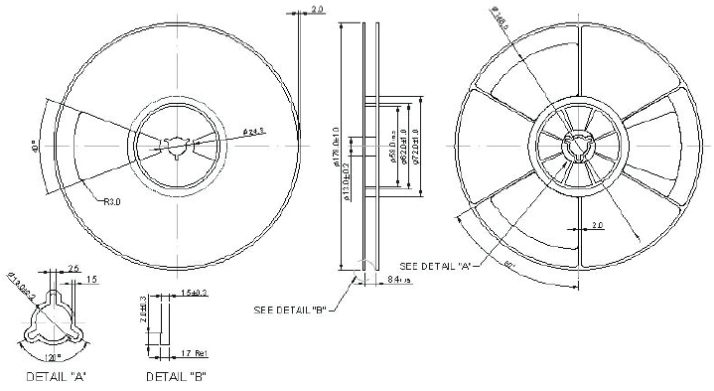


PACKAGING: 3000 Units/Reel "-T2" parts (2k/reel) are no longer available effective 01/01/2013

Reel Count : 7" = 3k units







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