



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

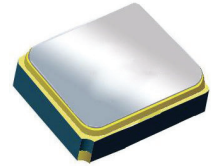
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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Surface Mount 1902.00MHz SAW Filter



1.4 x 1.1 x 0.7 mm

AFS14A35-1902.00-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



**RoHS
Compliant**

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

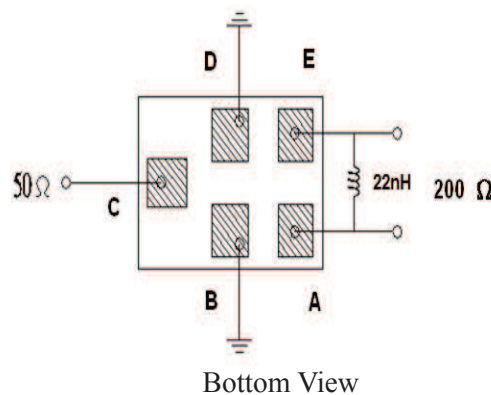
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-20°C to + 75°C
Storage Temperature Range	-30°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		1902.00		MHz	
Insertion Loss (IL)		1.8	2.4	dB	(1884.55~1919.45MHz)
Effective Bandwidth		35		MHz	
Amplitude Ripple		0.5	1.0	dB	(1884.55~1919.45MHz)
Worst-Case Input / Output Return Loss		9.54	7.35	dB	(1884.55~1919.45MHz)
Output amplitude balance ($ S_{31}/S_{21} $)	-3	+1.9	+3.0	dB	(1884.55~1919.45 MHz)
Output Phase Balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$)	-12	+6	+12	°	(1884.55~1919.45 MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	35	40		dB	1349~1455 MHz
	35	46			1614~1687 MHz
	34	36			1731~1801 MHz
	18	22			1986~2056 MHz
	25	33			2037~2039 MHz
	35	42			2113~2186 MHz
	40	48			2386~2451 MHz
	40	51			3000~3840 MHz
	35	48			4941~5760 MHz
Terminating Source Impedance (Z_s)		50		Ω	
Terminating Load Impedance (Z_L) (Differential)		200 Ω // 22nH			

TEST CIRCUIT:

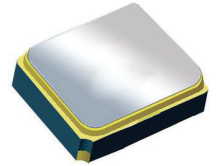


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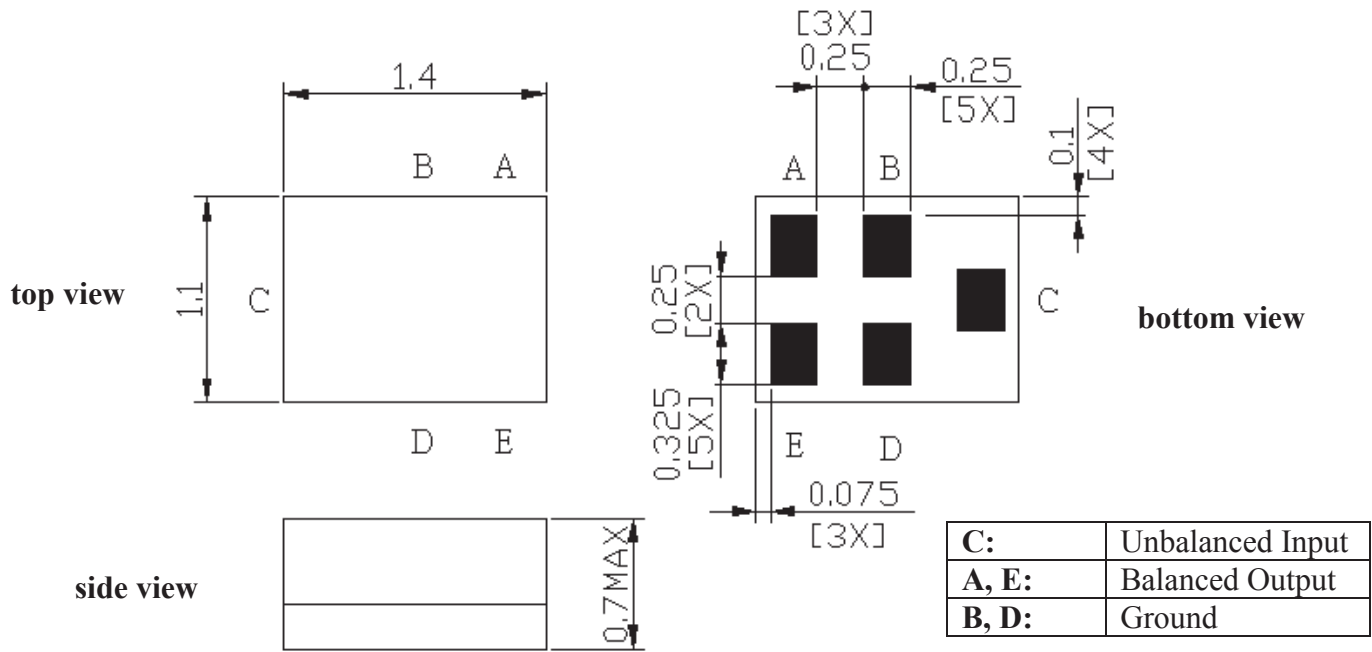


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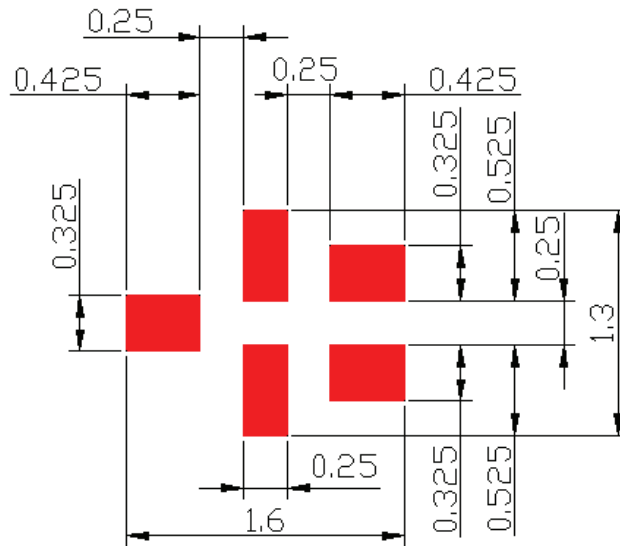


1.4 x 1.1 x 0.7 mm

OUTLINE DIMENSIONS:



Recommended Land Pattern:

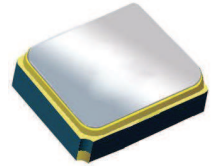


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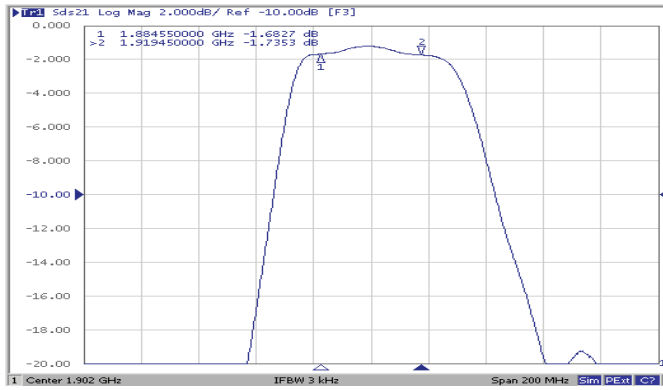
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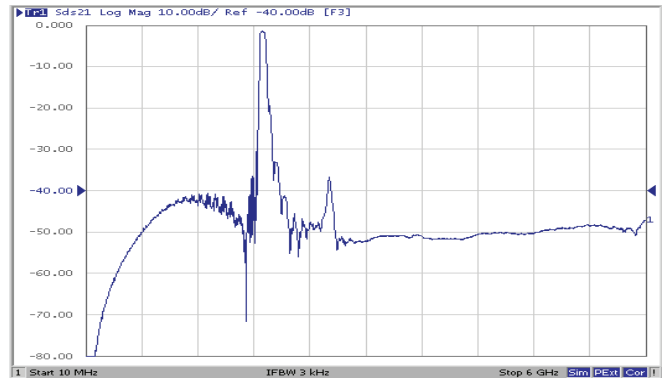
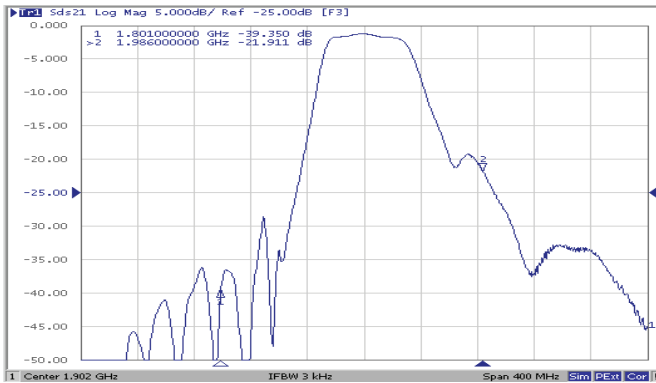
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

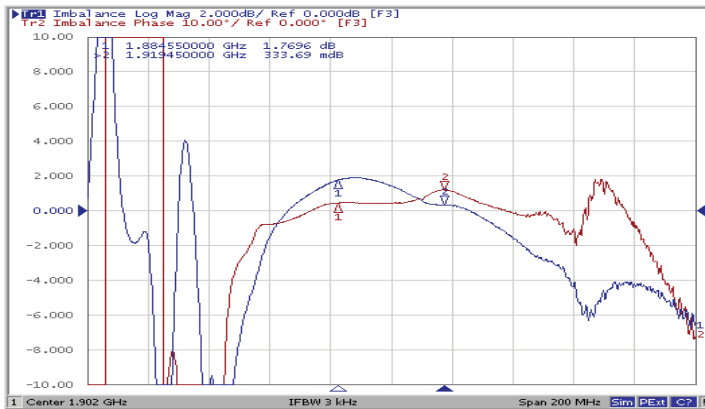


Filter Frequency Response (Wideband)

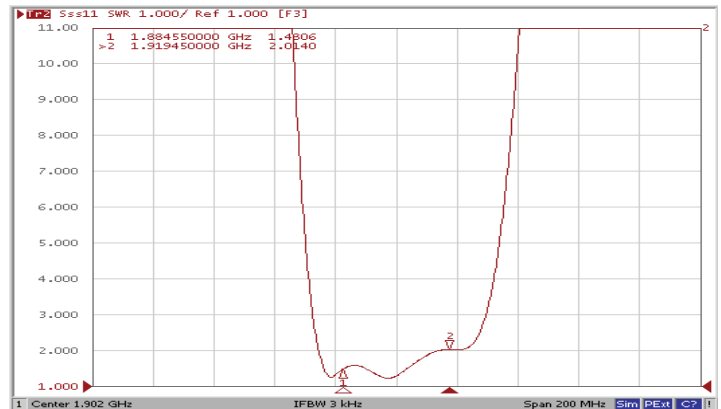


REFLECTION FUNCTIONS:

S11



S22



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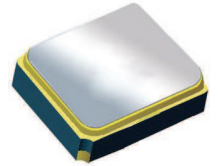
Revised: 04.16.13

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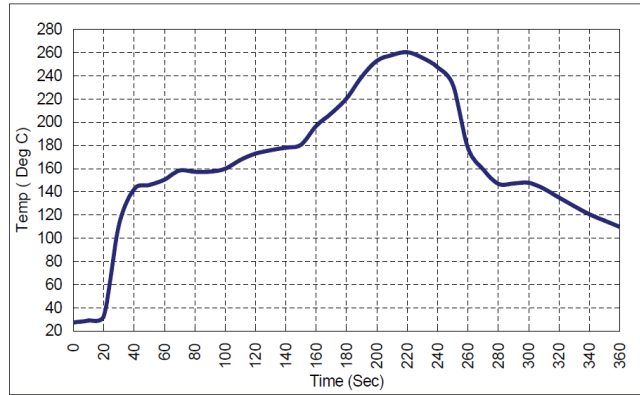


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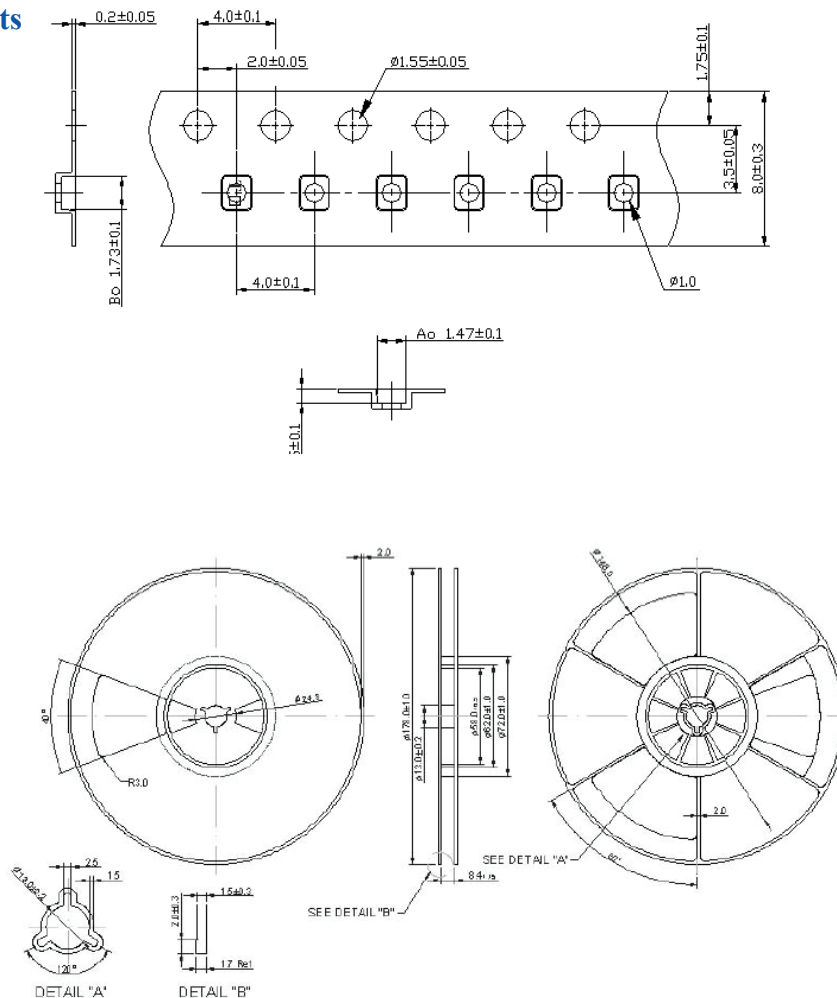
1.4 x 1.1 x 0.7 mm

REFLOW PROFILE:



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

Reel Count : 7" = 3k units



Dimensions: mm

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