

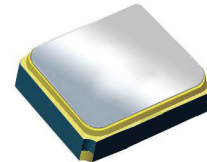
Surface Mount 1902.00MHz SAW Filter

AFS14A35-1902.00-T3

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



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

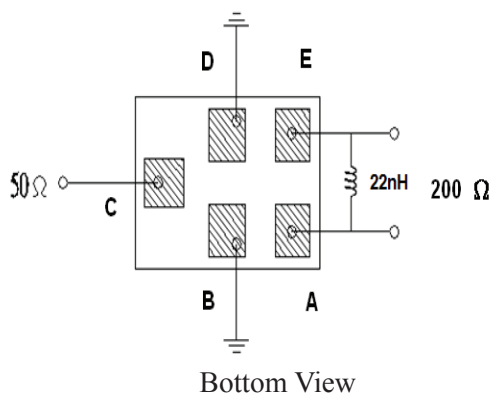
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-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:

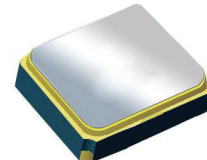


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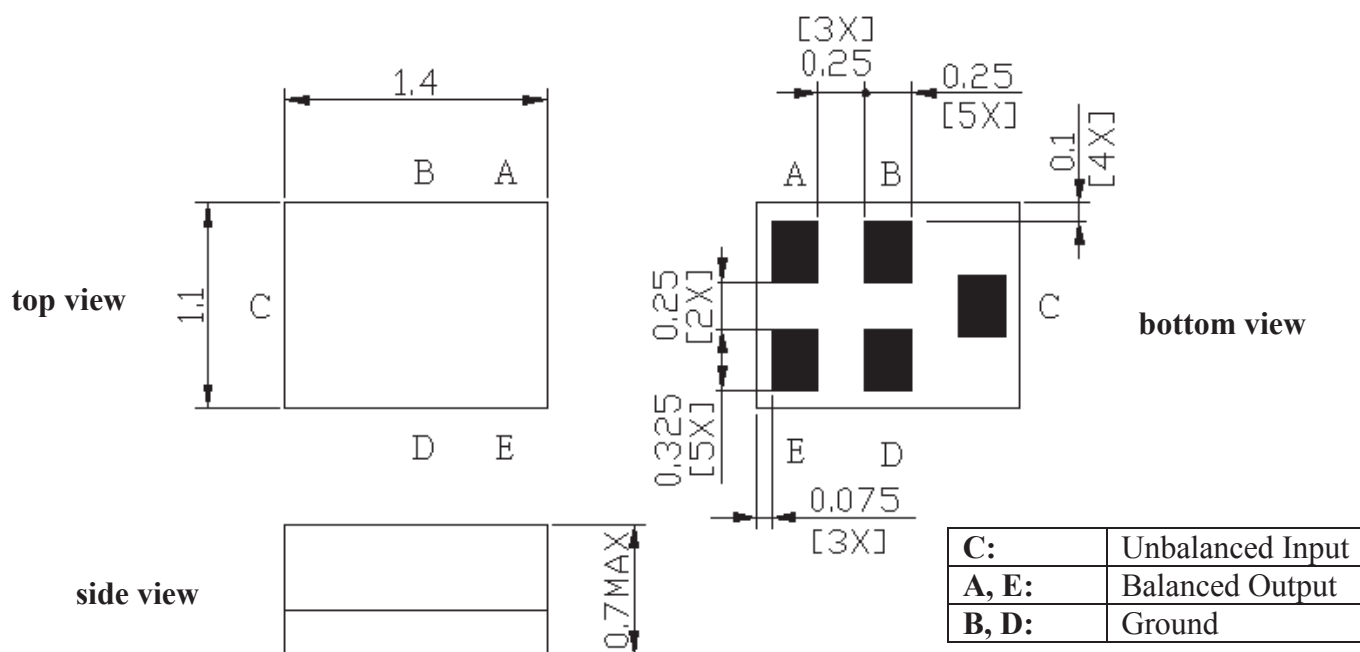


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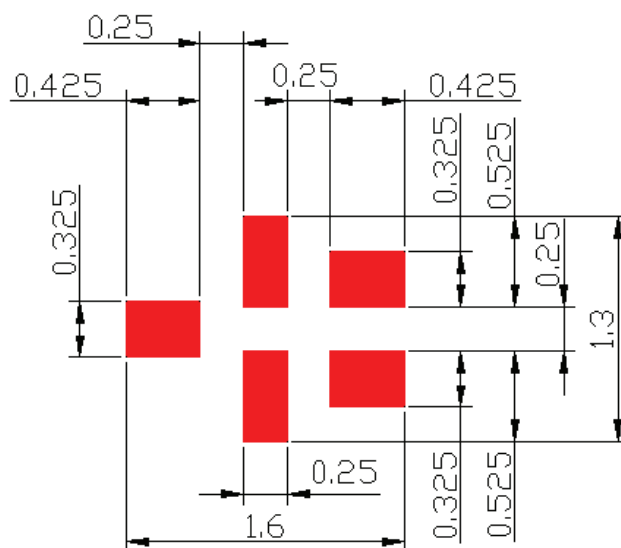
1.4 x 1.1 x 0.7 mm

OUTLINE DIMENSIONS:



Dimensions: mm

Recommended Land Pattern:



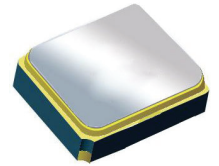
Dimensions: mm

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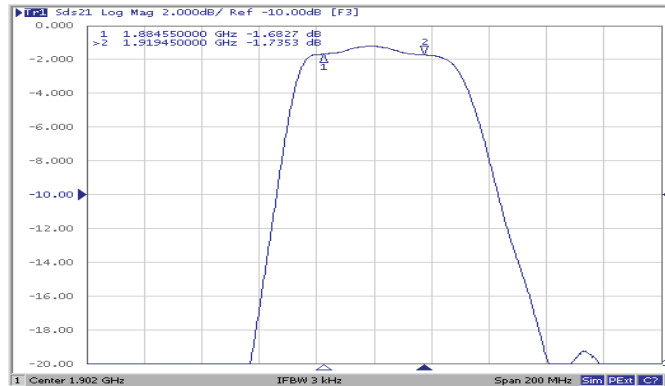
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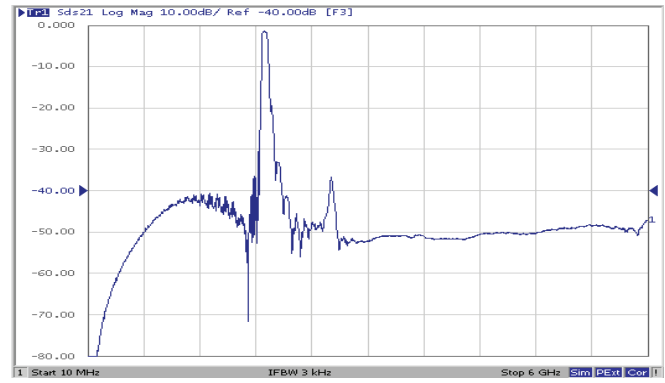
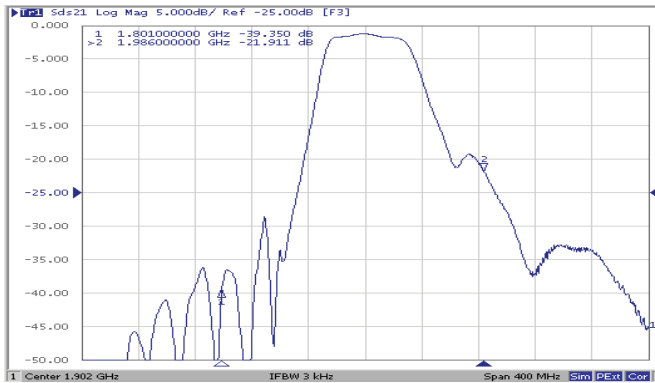
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

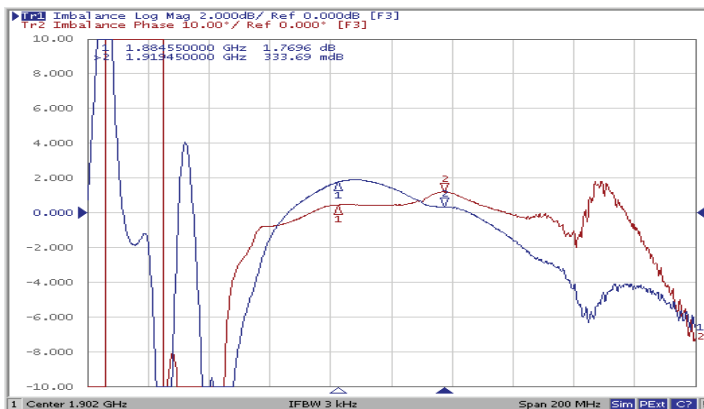


Filter Frequency Response (Wideband)

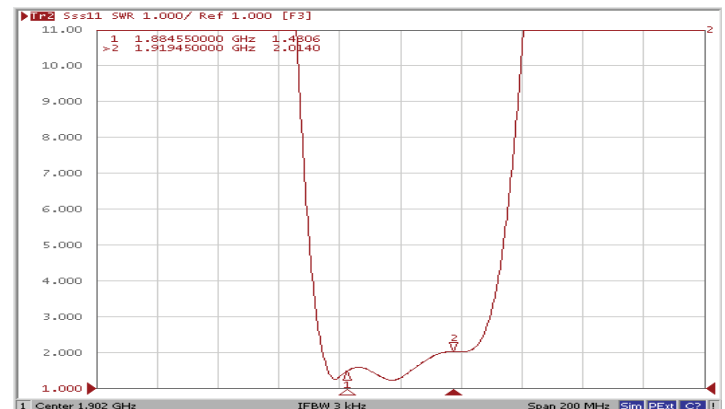


REFLECTION FUNCTIONS:

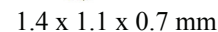
S11



S22



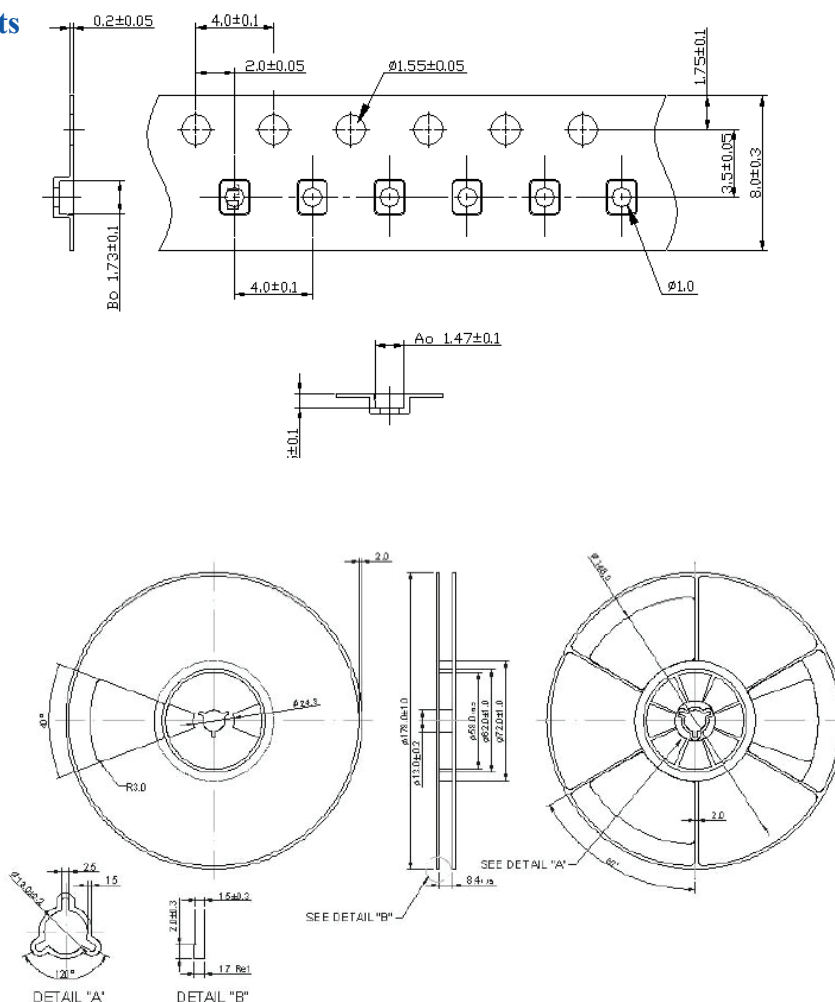
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Figure 1 is a line graph showing the temperature of water as a function of time during a heating process. The x-axis represents Time in seconds (Sec), ranging from 0 to 360. The y-axis represents Temperature in degrees Celsius (Deg C), ranging from 20 to 280. The curve starts at 20°C at 0 seconds, rises sharply to about 140°C by 40 seconds, then more gradually to a peak of approximately 260°C at 220 seconds. After the peak, the temperature drops sharply to about 140°C by 280 seconds and then continues to decrease slowly to about 100°C at 360 seconds.

Reel Count : 7" = 3k units



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AMEYA360

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