

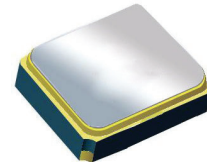
Surface Mount 722.00MHz SAW Filter

AFS14A11-722.00-T3

Moisture Sensitivity Level (MSL) = 3



RoHS
Compliant



1.4 x 1.1 x 0.7 mm

APPLICATIONS:

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

- Wireless Communication
- Remote Control
- Cellular Phones

ELECTRICAL SPECIFICATIONS:

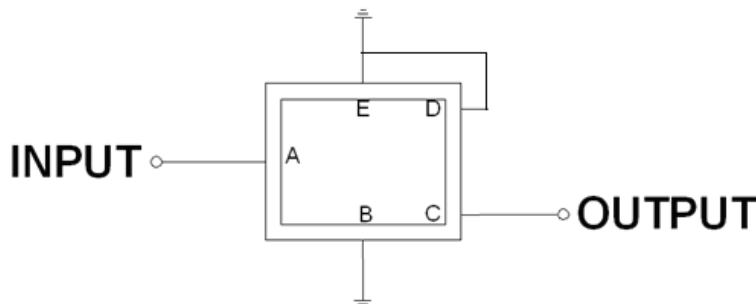
Maximum Ratings

Item	Value
Input Power Level	+15 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-10°C to + 60°C
Storage Temperature Range	-40°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		722.00		MHz	
Insertion Loss (IL)		2.1	2.8	dB	(716.29 ~ 727.71 MHz)
Effective Bandwidth		11		MHz	
Amplitude Ripple		0.4	1.2	dB	(716.29 ~ 727.71 MHz)
Group Delay Ripple		35	80	ns p-p	(716.29 ~ 727.71 MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	35	38		dB	0.1 ~ 698.0MHz
	3	7			704 ~ 710MHz
	0.5	1.5			710 ~ 716MHz
	0.5	2.0			728 ~ 734MHz
	5	11.1			734 ~ 740MHz
	23	27			740 ~ 746MHz
	30	36			746 ~ 756MHz
	40	52			776 ~ 798MHz
	40	46			824 ~ 960MHz
	32	36			1575.0MHz
	30	34			1710 ~ 1785MHz
	25	33			1920 ~ 1980MHz
	20	26			2400 ~ 2484MHz
Source Impedance (Z_s)		50		Ω	See note # 1
Load Impedance (Z_L)		50		Ω	See note # 1

Note #1: No matching network required for operation into 50 Ω 's

TEST CIRCUIT:

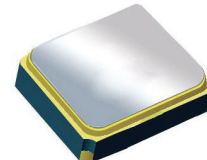


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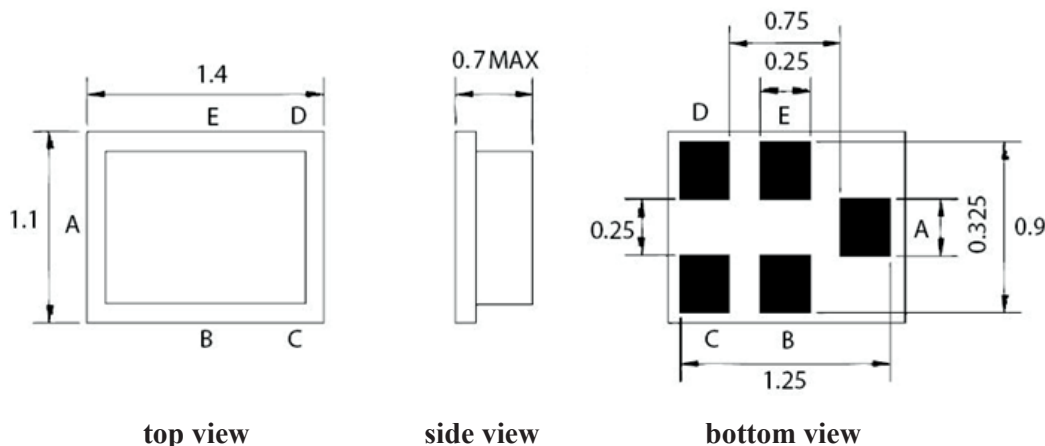


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1.4 x 1.1 x 0.7 mm

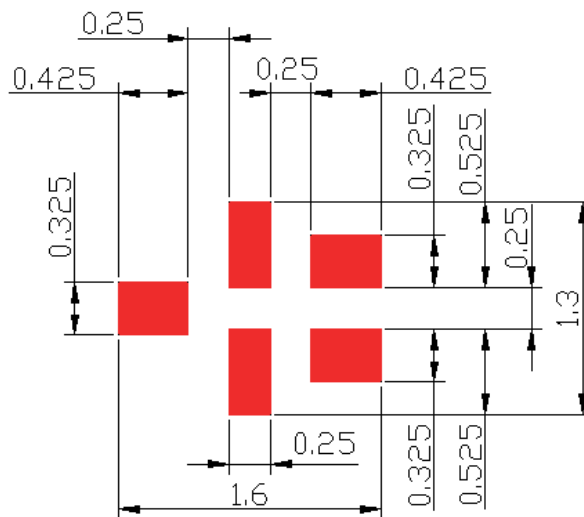
OUTLINE DIMENSIONS:



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

Dimensions: mm

Recommended Land Pattern:



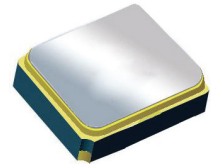
Dimensions: mm

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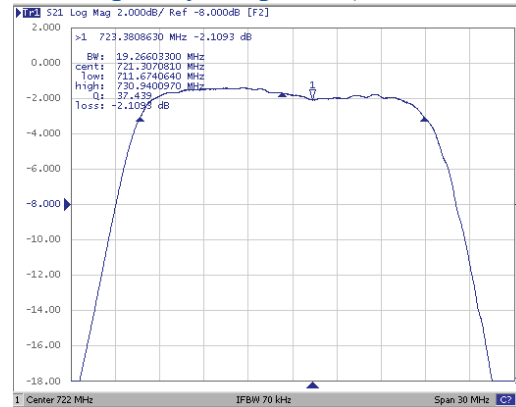
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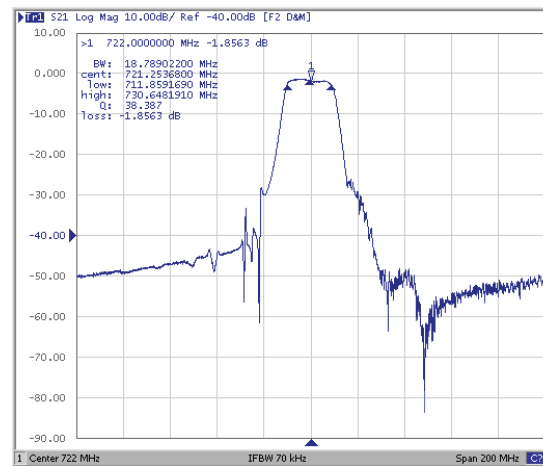
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

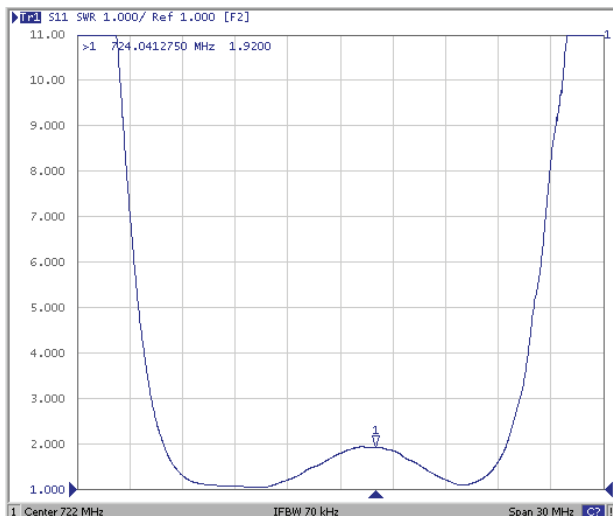


Filter Frequency Response (Wideband)

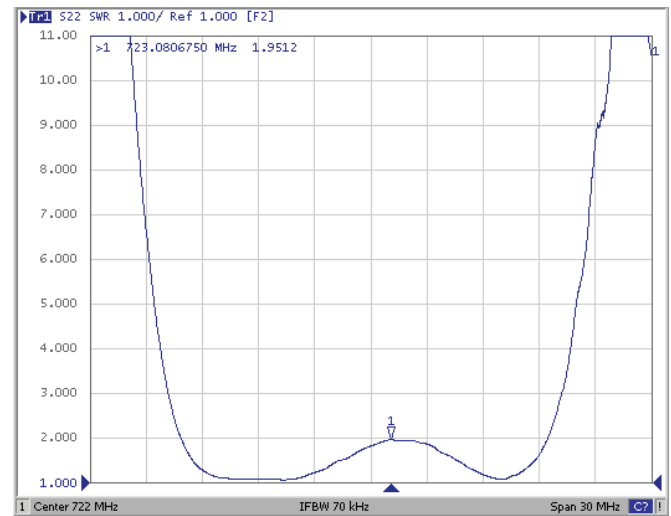


REFLECTION FUNCTIONS:

S11



S22



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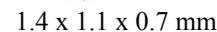


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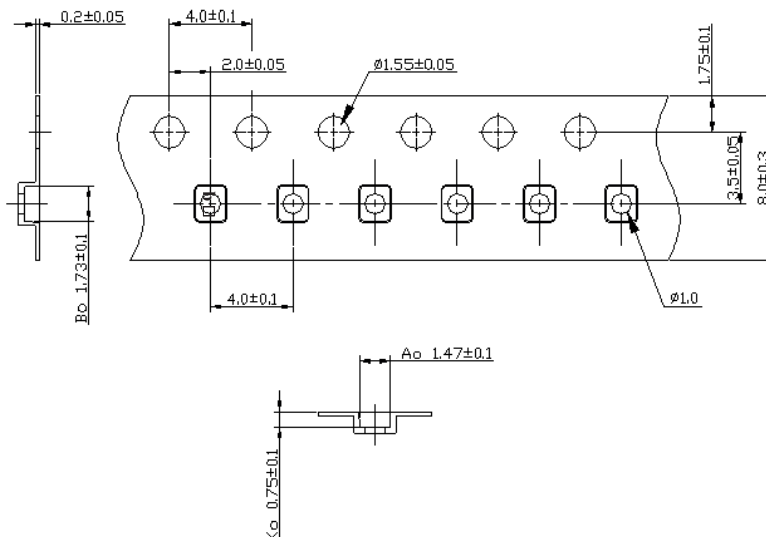


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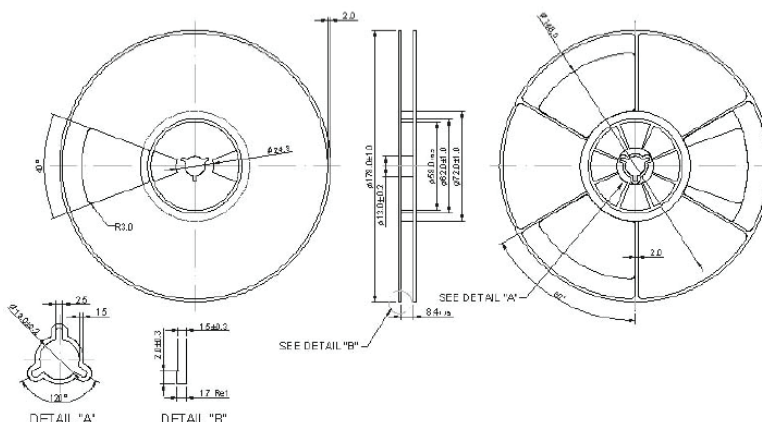
Figure 1 is a line graph showing the temperature of water over time during a heating process. The x-axis represents Time in seconds (Sec), ranging from 0 to 360. The y-axis represents Temperature in degrees Celsius (Deg C), ranging from 20 to 280. The curve shows a rapid initial increase in temperature, followed by a period of relative stability (boiling) around 145°C between 40 and 100 seconds. After this, the temperature continues to rise, reaching a peak of approximately 260°C at 220 seconds, before decreasing to about 105°C at 360 seconds.

Time (Sec)	Temp (Deg C)
0	20
20	25
40	145
60	145
80	155
100	155
120	170
140	175
160	195
180	220
200	250
220	260
240	245
260	175
280	145
300	145
320	130
340	115
360	105

Reel Count : 7" = 3k units



Dimensions: mm



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