

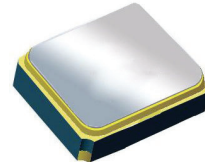
Surface Mount 722.00MHz SAW Filter

AFS14A11-722.00-T3

Moisture Sensitivity Level (MSL) = 3



RoHS
Compliant



1.4 x 1.1 x 0.7 mm

APPLICATIONS:

- Wireless Communication
- Remote Control
- Cellular Phones

ELECTRICAL SPECIFICATIONS:

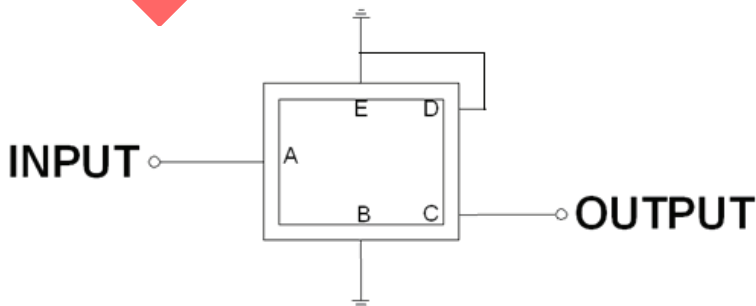
Maximum Ratings

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

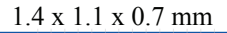
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		722.00		MHz	
Insertion Loss (IL)		2.1	2.8	dB	(716.29 ~ 727.71 MHz)
Effective Bandwidth		11		MHz	
Amplitude Ripple		0.4	1.2	dB	(716.29 ~ 727.71 MHz)
Group Delay Ripple		35	80	ns p-p	(716.29 ~ 727.71 MHz)
Stop-band Attenuation (Referenced 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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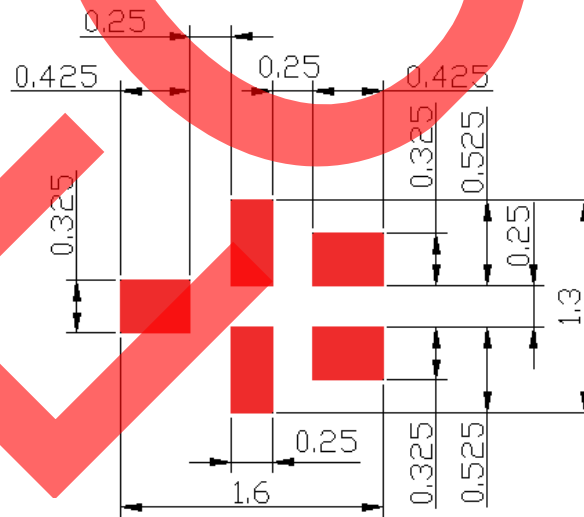
Technical drawings of a rectangular plate with a central hole and four corner holes. The drawings include top, side, and front views with dimensions in millimeters.

- Top View:** Shows a rectangular plate with overall dimensions of 1.4 mm (width) and 1.1 mm (height). The central hole has a width of 0.75 mm and a height of 0.25 mm. The distance from the center of the central hole to the center of each corner hole is 0.25 mm. The corner holes have a width of 0.25 mm and a height of 0.25 mm. The distance from the center of the central hole to the center of the corner holes is 0.25 mm. The distance from the center of the central hole to the center of the corner holes is 0.25 mm.
- Side View:** Shows the profile of the plate with a thickness of 0.7 MAX mm.
- Front View:** Shows the plate with a width of 1.25 mm and a height of 0.9 mm. The central hole has a width of 0.25 mm and a height of 0.25 mm. The corner holes have a width of 0.25 mm and a height of 0.25 mm. The distance from the center of the central hole to the center of each corner hole is 0.25 mm.

bottom view

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

Recommended Land Pattern:



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Revised: 04.16.13

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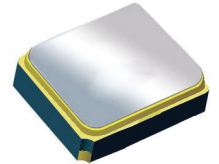
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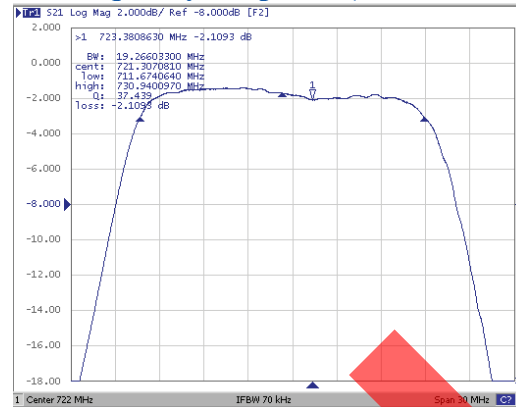
RoHS
Compliant



1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

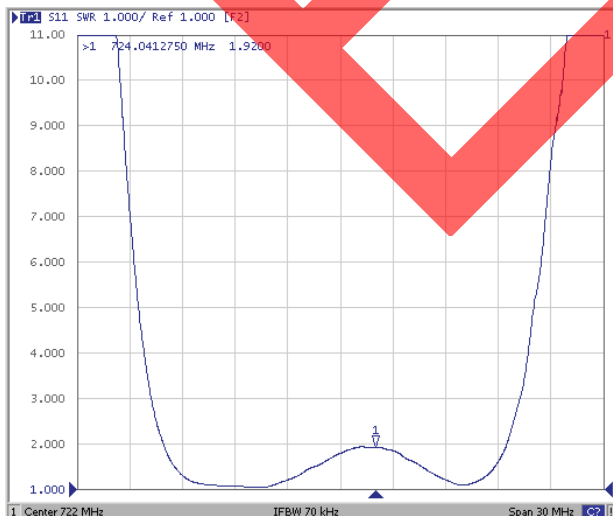


Filter Frequency Response (Wideband)

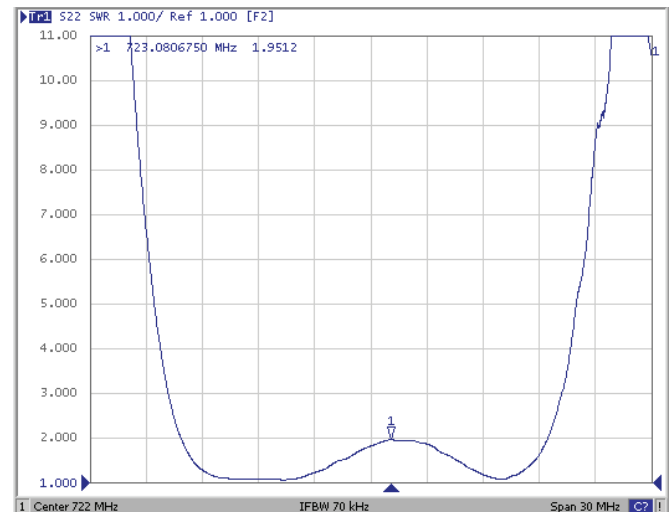


REFLECTION FUNCTIONS:

S11



S22



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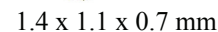


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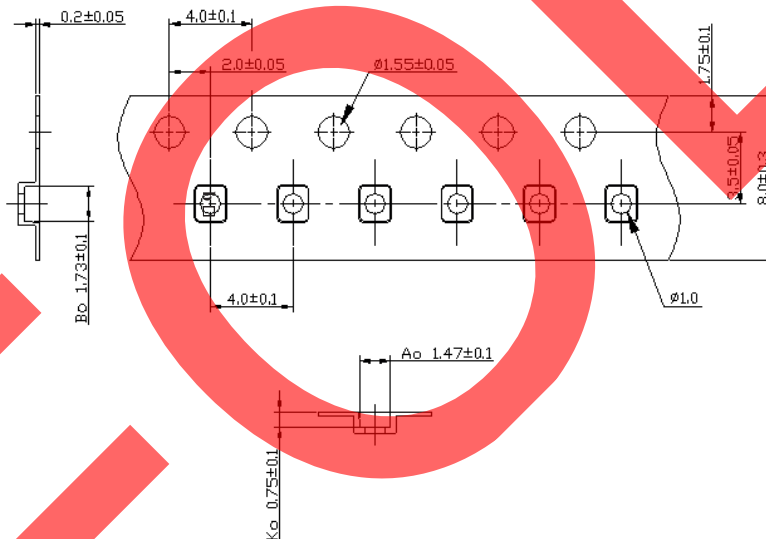


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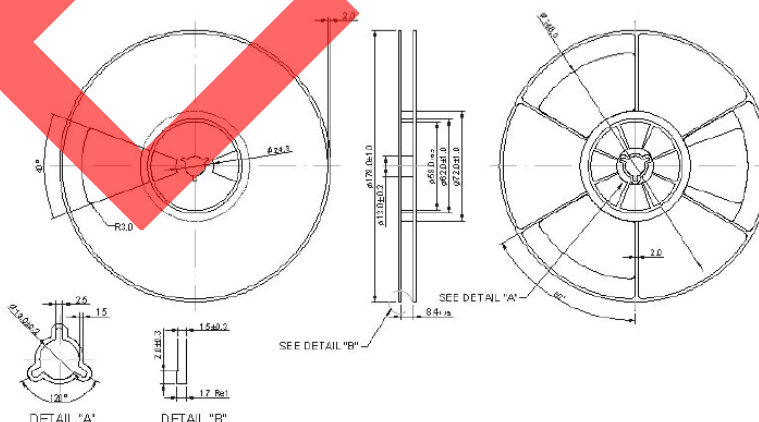
The graph shows the temperature of a substance over time. The temperature starts at 25°C, rises to a peak of 260°C at 220 seconds, and then falls to 105°C at 360 seconds. A red triangle highlights the cooling phase from 220 to 300 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	25
40	140
60	145
80	155
100	155
120	165
140	175
160	185
180	215
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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