

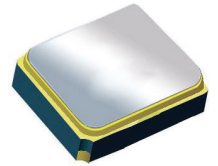
Surface Mount 1588.66 MHz SAW Filter

AFS14A34-1588.66-T3

Moisture Sensitivity Level (MSL) = 3



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:

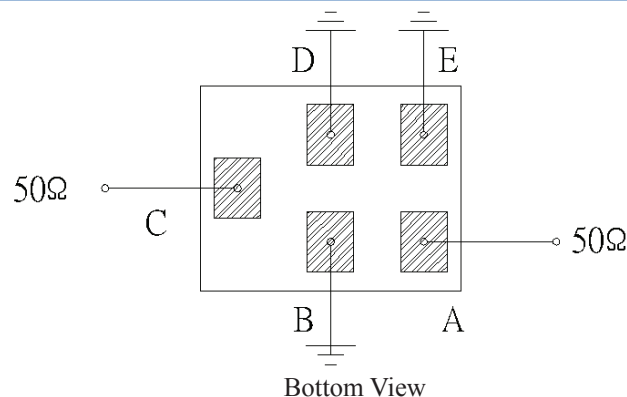
Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		1588.66		MHz	
Insertion Loss (IL)		1.25	1.70	dB	1573.42~1577.42 MHz
Insertion Loss (IL)		1.7	2.5	dB	1571.42~1605.89 MHz
Effective Bandwidth		34		MHz	
Amplitude Ripple		0.25	0.8	dB	1573.42~1577.42 MHz
Amplitude Ripple		0.7	1.5	dB	1571.42~1605.89 MHz
Worst-Case Input / Output Return Loss	9.54	20.8		dB	1573.42~1577.42 MHz
Worst-Case Input / Output Return Loss	12.7	20.8		dB	1571.42~1605.89 MHz
Stop-band Attenuation (Referenced to 0.0 dB)	32	35		dB	D.C~824 MHz
	32	35			824~849 MHz
	32	34.5			849~880 MHz
	32	34.5			880~915 MHz
	30	34			915~1452 MHz
	32	37			1452~1525 MHz
	32	36			1710~1785 MHz
	32	36			1785~1850 MHz
	25	36			1850~6000 MHz
Temperature Coefficient of frequency		-36		ppm/°C	
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:

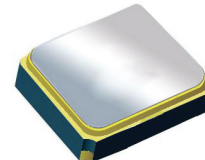


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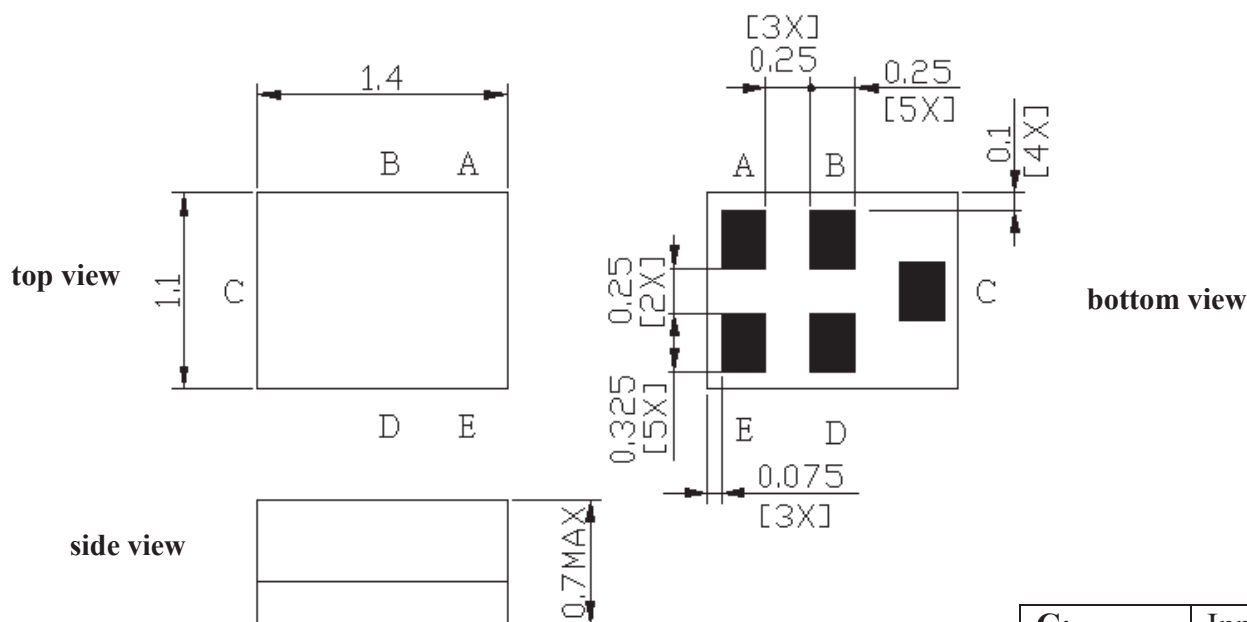


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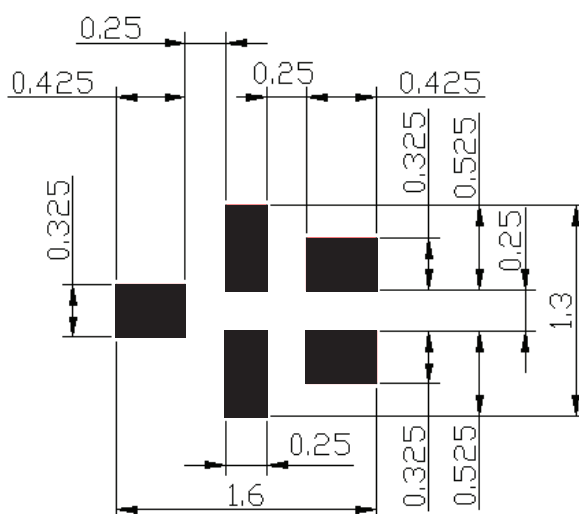
1.4 x 1.1 x 0.7 mm

OUTLINE DIMENSIONS:



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

Recommended Land Pattern:



■ : Land Pattern
Unit : mm

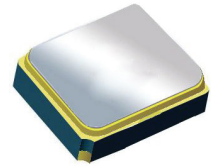
*All Dimensions are in mm

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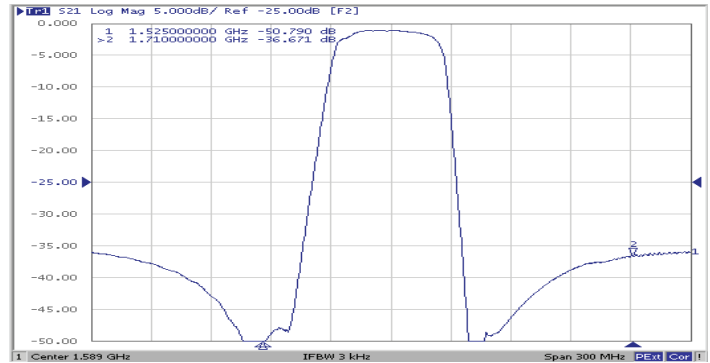
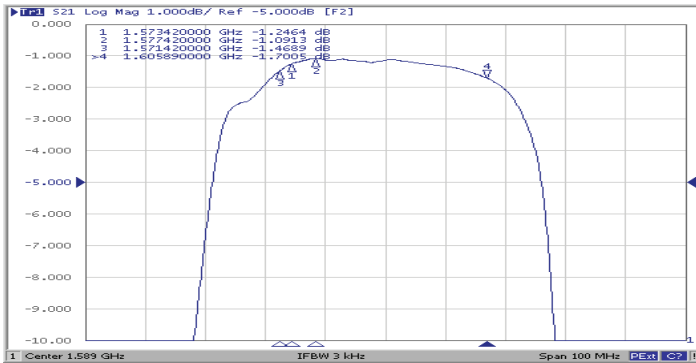
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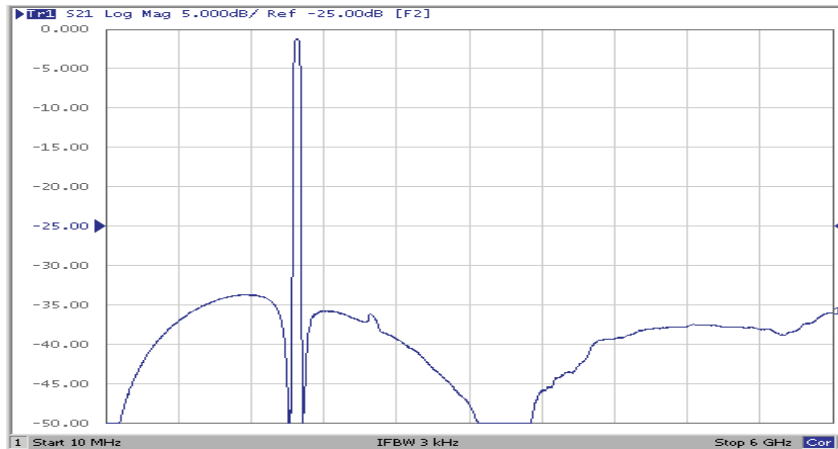
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

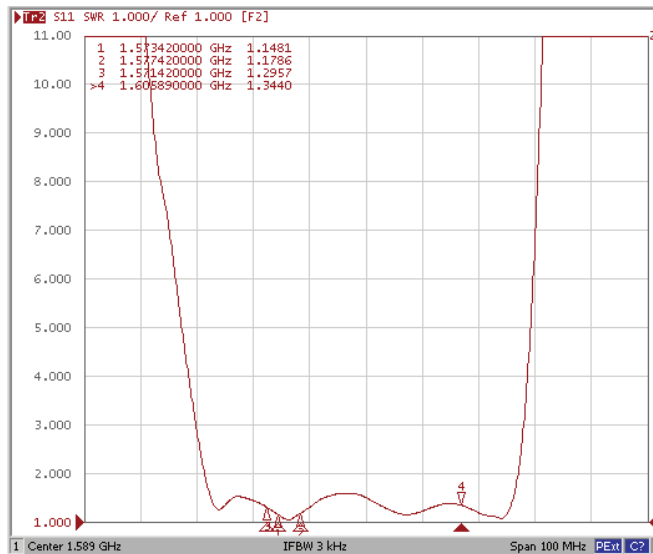


Filter Frequency Response (Wideband)

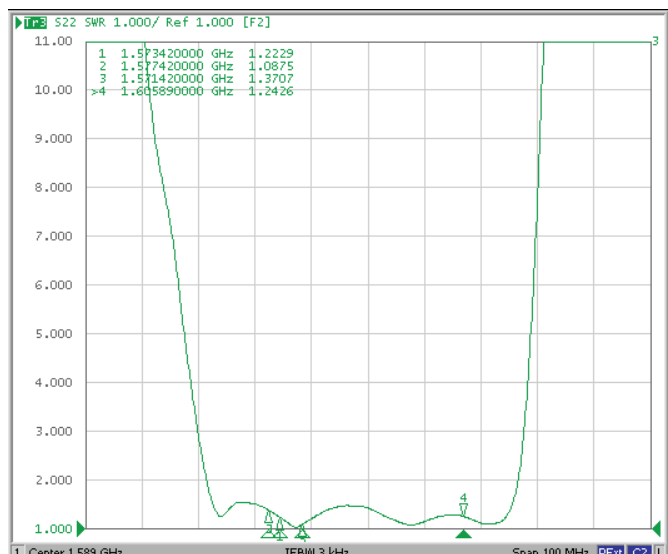


REFLECTION FUNCTIONS:

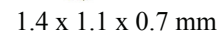
S11



S22



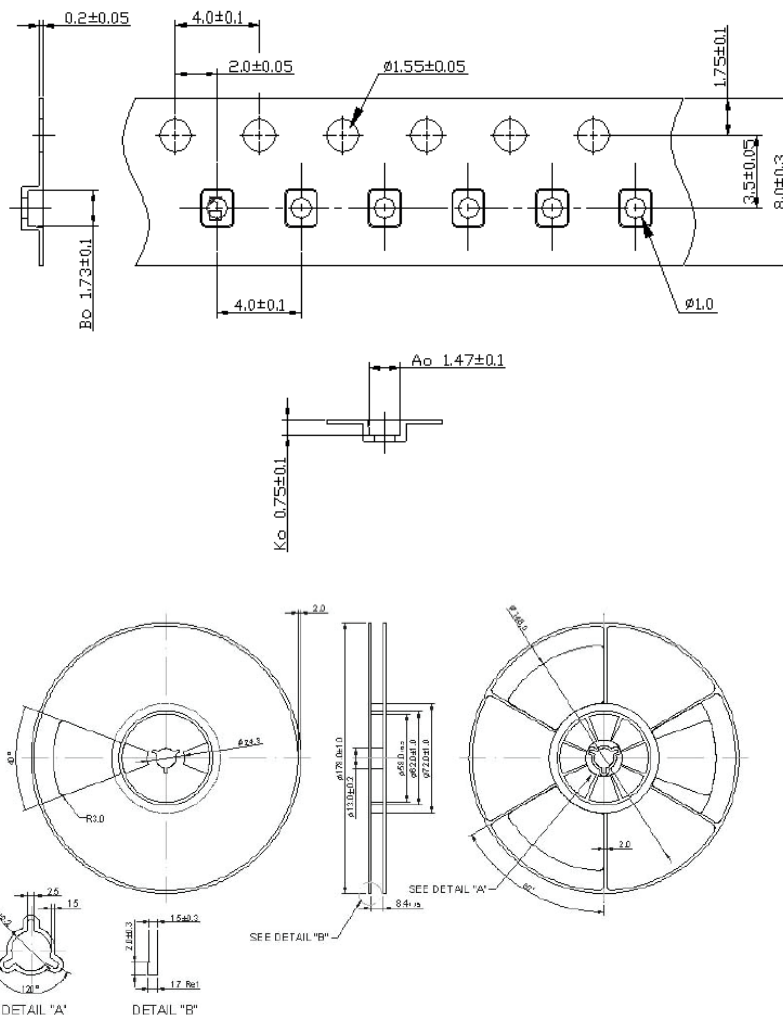
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Time (Sec)	Temp (Deg C)
0	20
20	20
40	140
60	145
80	155
100	155
120	165
140	175
160	195
180	220
200	250
220	260
240	245
260	175
280	140
300	145
320	130
340	115
360	105

Reel Count : 7" = 3k units



Dimensions: mm



REVISÉ: 02-8-19

ABRACON IS
ISO9001-2015
CERTIFIED