

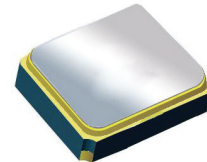
Surface Mount 1591.5 MHz SAW Filter

AFS14A35-1591.5-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:

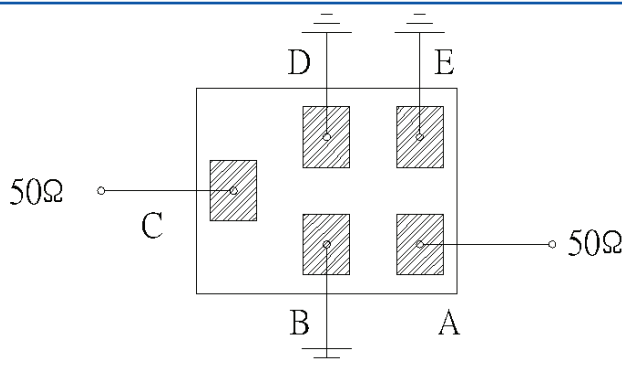
Maximum Ratings

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

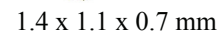
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		1591.5		MHz	
Insertion Loss (IL)		2.4	3.7	dB	1574~1609 MHz
Effective Bandwidth		35		MHz	
Amplitude Ripple		1.3	2.6	dB	1574~1609 MHz
Worst-Case Input / Output Return Loss	7.7	9.5		dB	1574~1609 MHz
Group Delay Variation		17	50	ns	1574~1609 MHz
Stop-band Attenuation (Referenced to 0.0 dB)	28	34		dB	10 ~1200 MHz
	28	34			1200~1450 MHz
	20	37			1450~1540 MHz
	9	31			1626~1710 MHz
	30	37			1710~2000 MHz
	30	37			2000~2500 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:

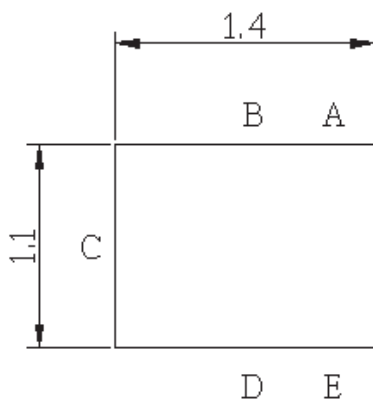


AFS14A35-1591.5-T3

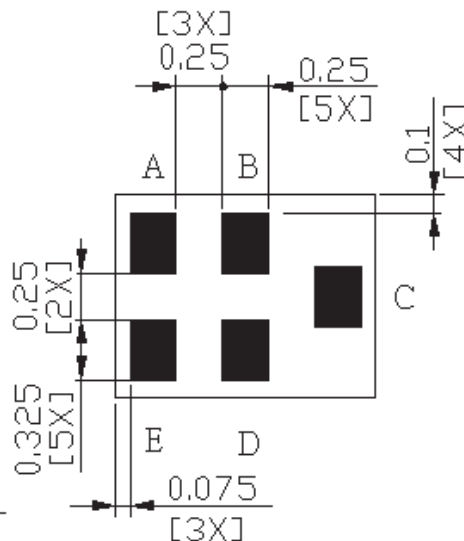
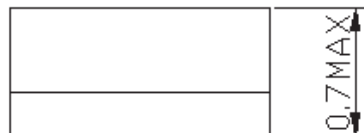


RoHS
Compliant

top view



side view



bottom view

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

Technical drawing of a stepped shaft with dimensions in mm. The shaft has a total length of 1.3 mm. The diameter is 0.25 mm for the first 0.425 mm, then 0.325 mm for the next 0.325 mm, and finally 0.525 mm for the remaining 0.525 mm. The drawing shows the shaft with its steps and the corresponding dimensions.

Unit : mm

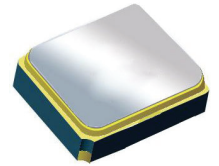
*All Dimensions are in mm

Surface Mount 1591.5 MHz SAW Filter

AFS14A35-1591.5-T3



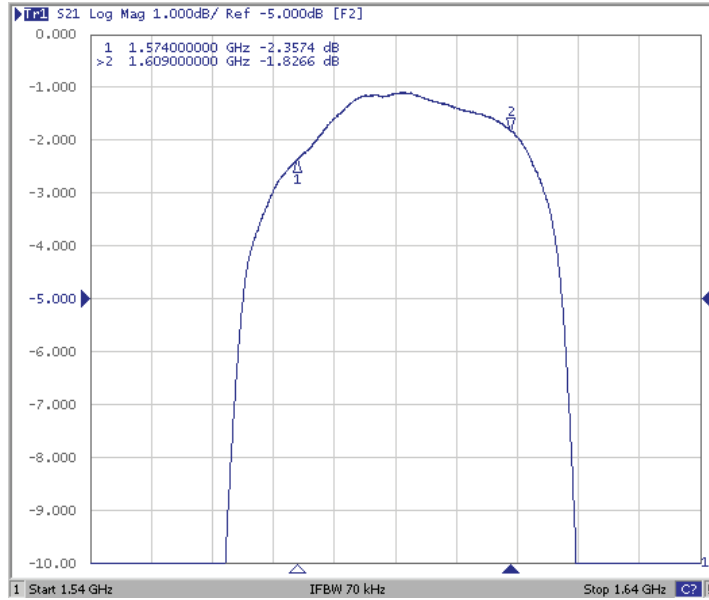
RoHS
Compliant



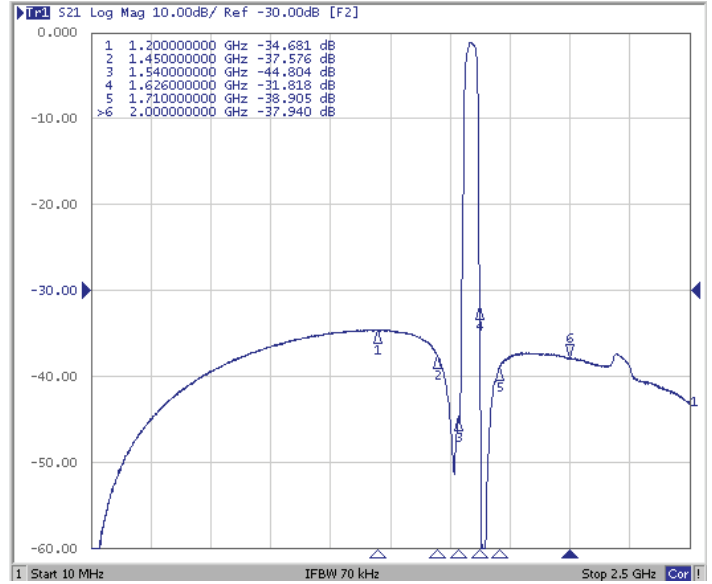
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

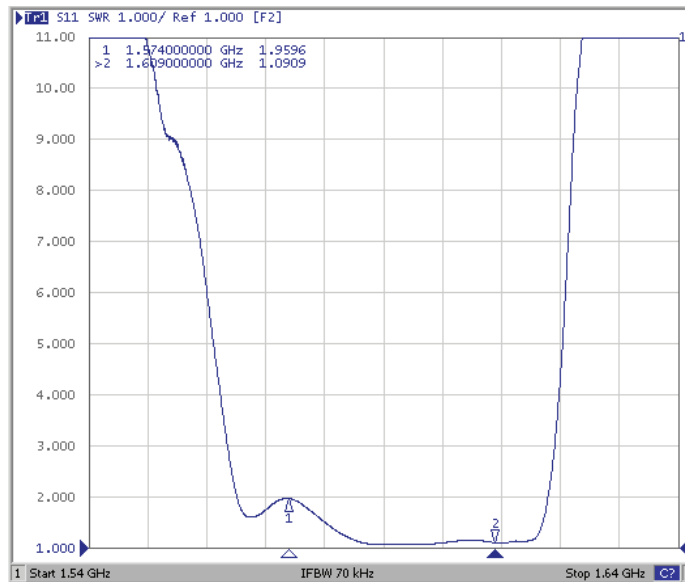


Filter Frequency Response (Wideband)

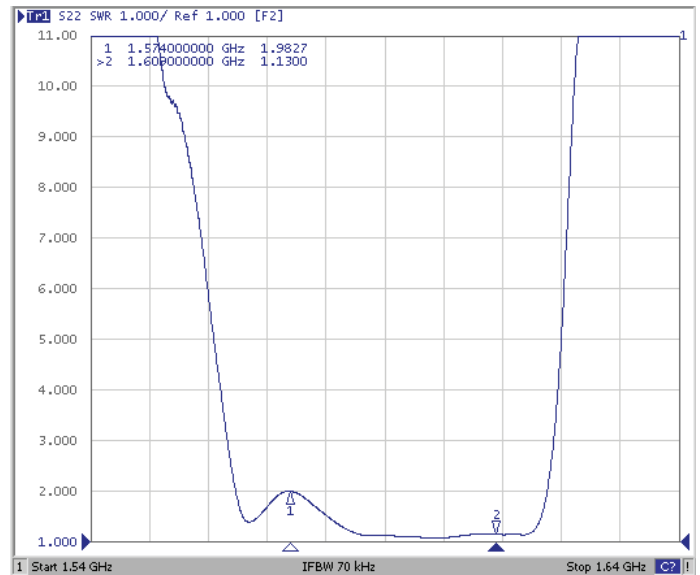


REFLECTION FUNCTIONS:

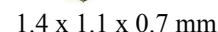
S11



S22



AFS14A35-1591.5-T3



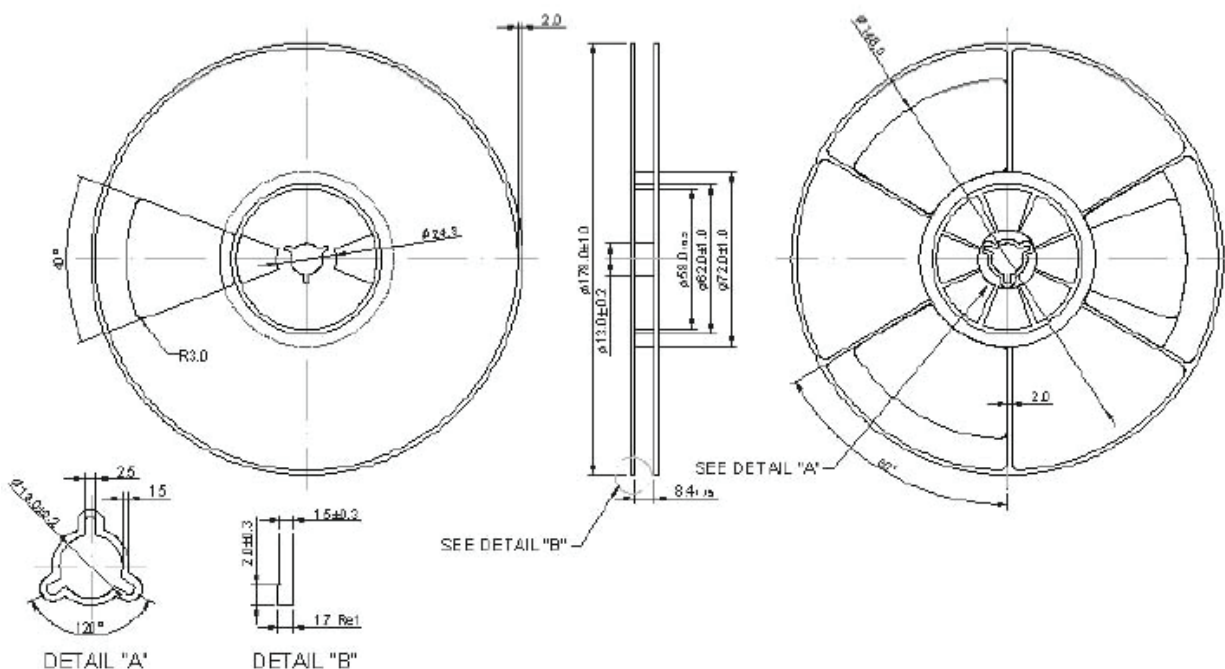
Pb

RoHS
Compliant

The graph shows the temperature profile over a 360-second period. The temperature starts at 25°C, rises to a peak of 260°C at 220 seconds, and then decreases to 110°C at 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	25
40	145
60	145
80	155
100	155
120	165
140	175
160	185
180	215
200	255
220	260
240	245
260	175
280	145
300	145
320	130
340	115
360	110

Reel Count : 7" = 3k units



ABRACON IS
ISO 9001:2008
CERTIFIED



ABRACON CORPORATION

30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 01.22.13

30332 Esperanza, Rancho Santa Margarita, California 92688

tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

AMEYA360

Components Supply Platform

Authorized Distribution Brand :



Website :

Welcome to visit www.ameya360.com

Contact Us :

➤ Address :

401 Building No.5, JiuGe Business Center, Lane 2301, Yishan Rd
Minhang District, Shanghai , China

➤ Sales :

Direct +86 (21) 6401-6692
Email amall@ameya360.com
QQ 800077892
Skype ameyasales1 ameyasales2

➤ Customer Service :

Email service@ameya360.com

➤ Partnership :

Tel +86 (21) 64016692-8333
Email mkt@ameya360.com