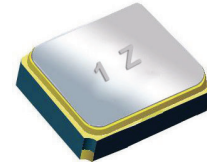


Surface Mount 1902.00MHz SAW Filter

AFS14A35-1902.00-T2



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

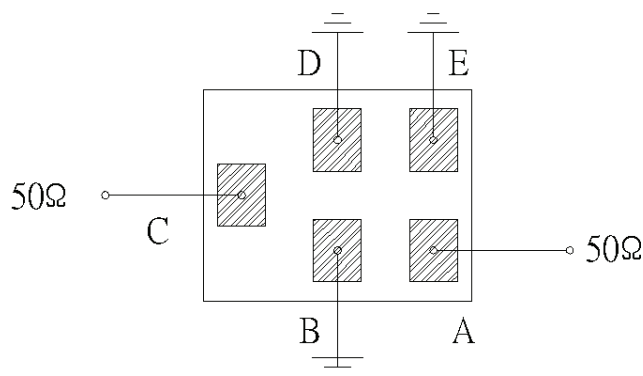
ELECTRICAL SPECIFICATIONS:

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)
3-dB 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:

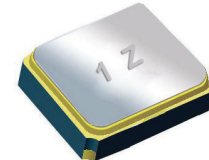


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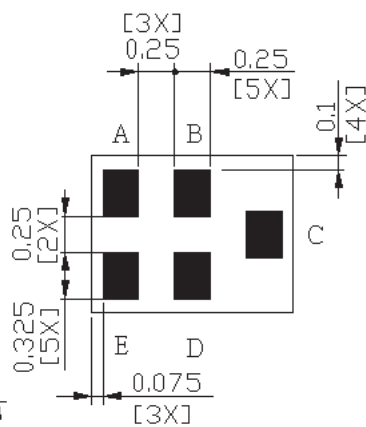
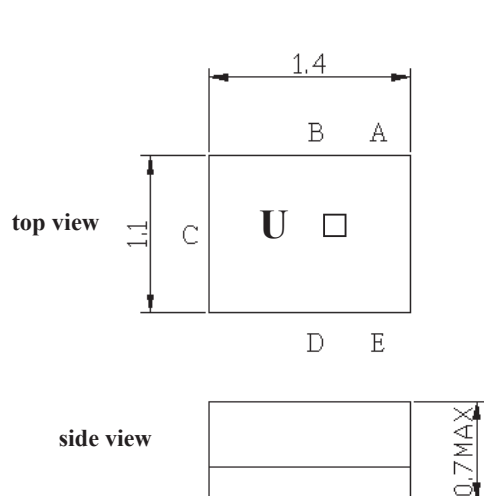


RoHS
Compliant



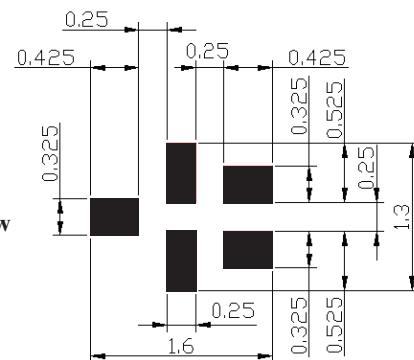
1.4 x 1.1 x 0.7 mm

OUTLINE DIMENSIONS:



bottom view

Recommended Land Pattern:



■ : Land Pattern
Unit : mm

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

*All Dimensions are in mm

□ Year/Month Code (Follow the table)

Year/Month	1	2	3	4	5	6	7	8	9	10	11	12
2009	A	B	C	D	E	F	G	H	J	K	L	M
2010	N	P	Q	R	S	T	U	V	W	X	Y	Z
2011	A	B	C	D	E	F	G	H	J	K	L	M
2012	N	P	Q	R	S	T	U	V	W	X	Y	Z
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z

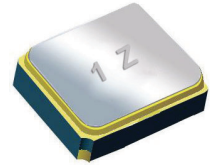


Surface Mount 1902.00MHz SAW Filter

AFS14A35-1902.00-T2



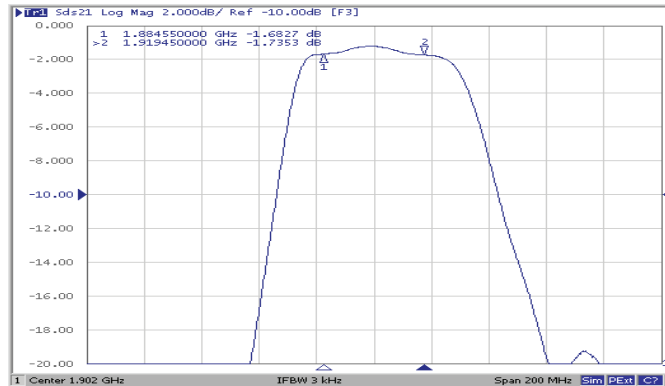
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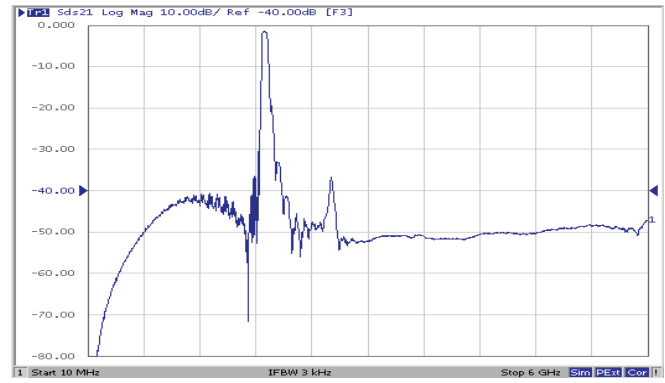
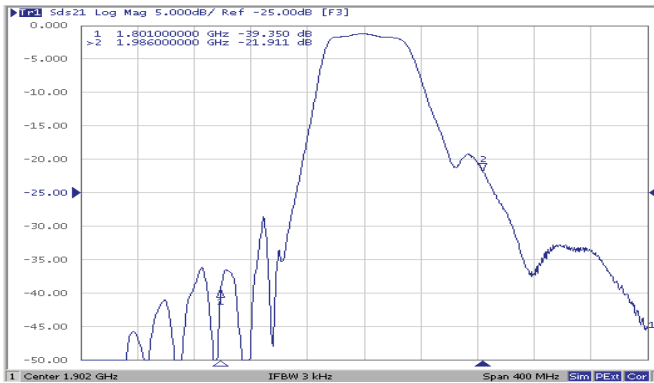
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

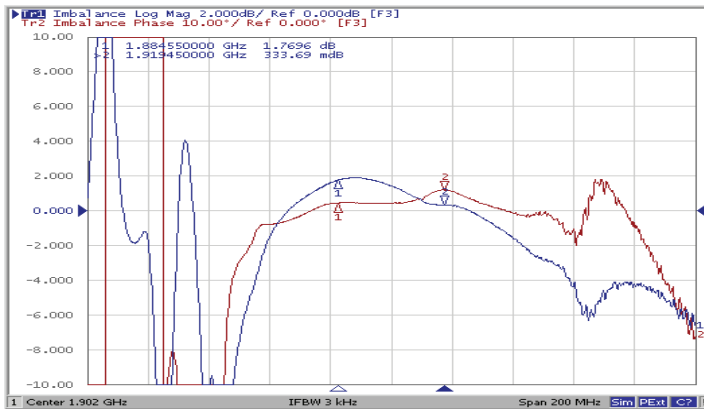


Filter Frequency Response (Wideband)

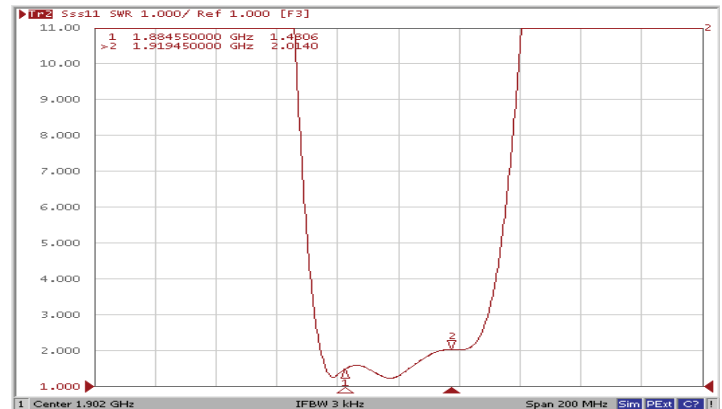


REFLECTION FUNCTIONS:

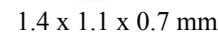
S11



S22



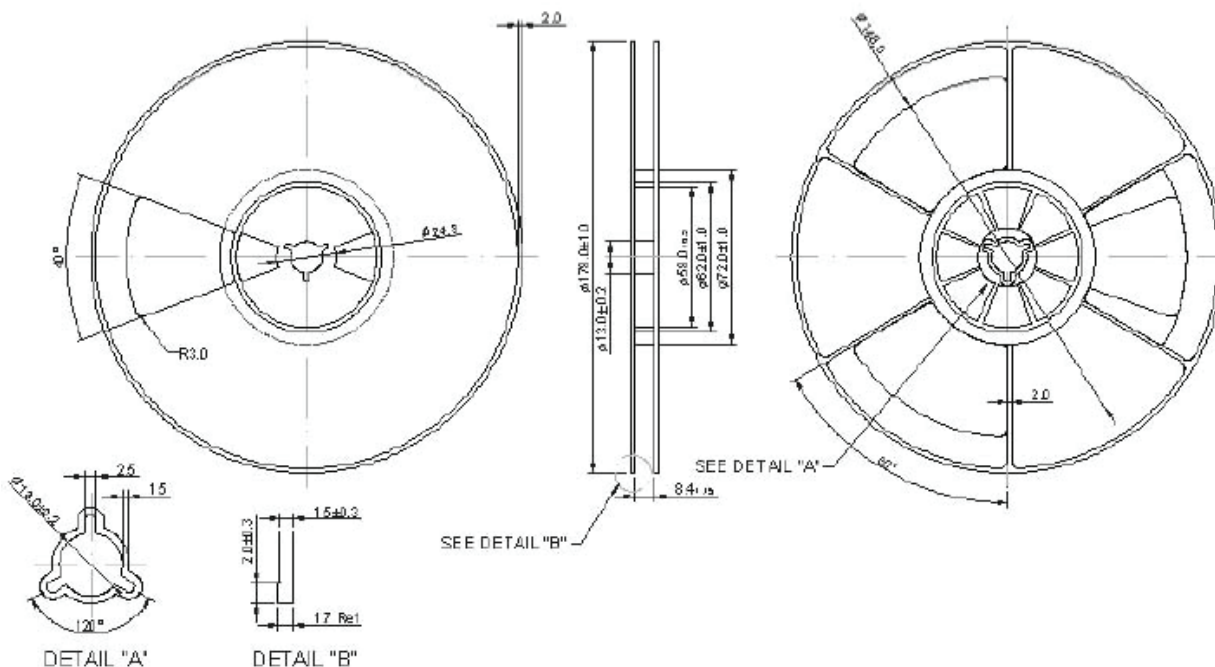
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Time (Sec)	Temp (Deg C)
0	20
20	20
40	140
60	145
80	150
100	150
120	160
140	170
160	180
180	210
200	250
220	260
240	240
260	170
280	140
300	145
320	130
340	110
360	100

Reel Count : 7" = 2k units



ABRACON IS
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