

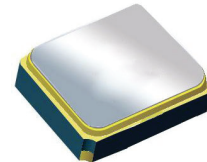
Surface Mount 2185.00MHz SAW Filter

AFS14A30-2185.00-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

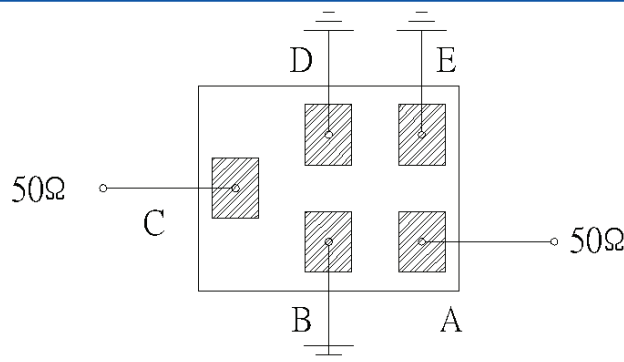
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

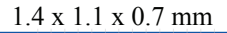
Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30°C to + 105°C
Storage Temperature Range	-40°C to + 105°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		2185		MHz	
Insertion Loss (IL)		2.0	3.50	dB	(2170.00~2200.00MHz)
Effective Bandwidth		30.00		MHz	
Amplitude Ripple		0.50	2.30	dB	(2170.00~2200.00MHz)
Worst-Case Input / Output Return Loss		12.73	10.88	dB	(2170.00~2200.00MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	29	30.5		dB	DC~1980 MHz
	32	39.4			1980~2010 MHz
	20	32			2010~2110 MHz
	20	27			2260~2300 MHz
	29	34			2300~3500 MHz
	20	23			3500~6000 MHz
Terminating Source Impedance (Z_S)		50		Ω	
Temperature Coefficient of Frequency		-36		ppm/°C	

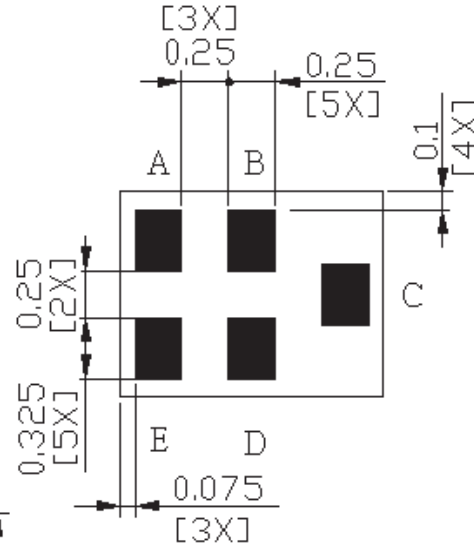
TEST CIRCUIT:



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top view



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

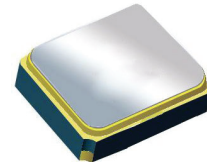
 : Land Pattern
 Unit : mm

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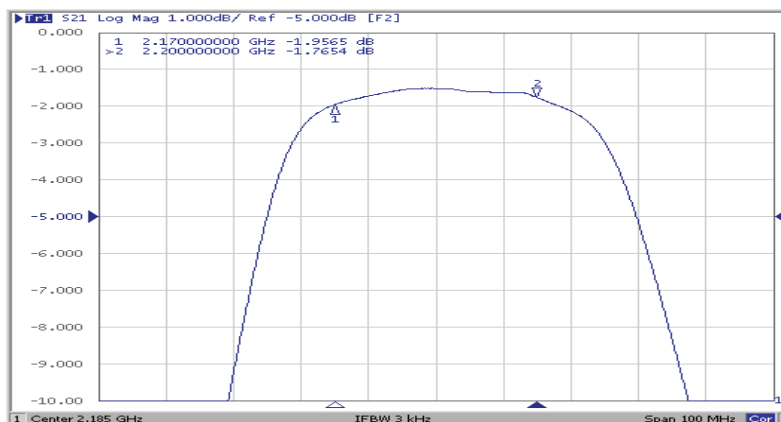
RoHS
Compliant



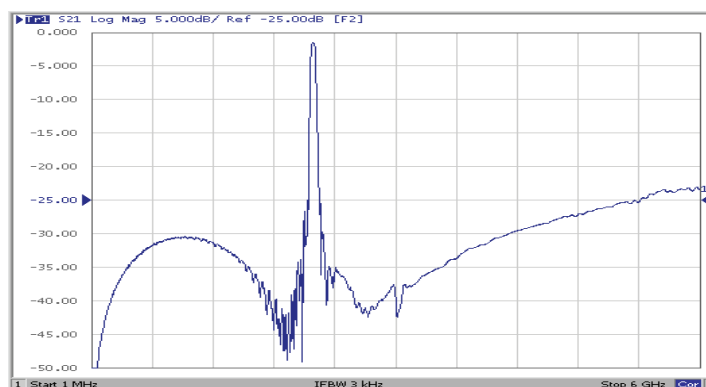
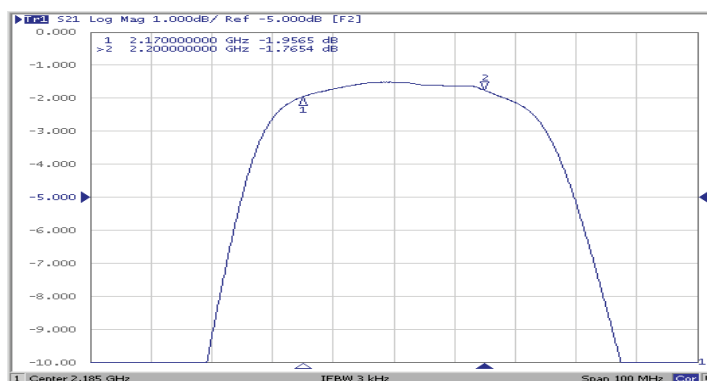
1.4 x 1.1 x 0.7 mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

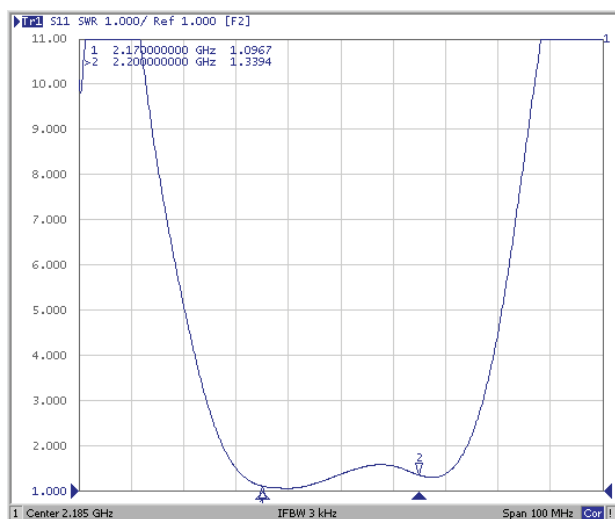


Filter Frequency Response (Wideband)

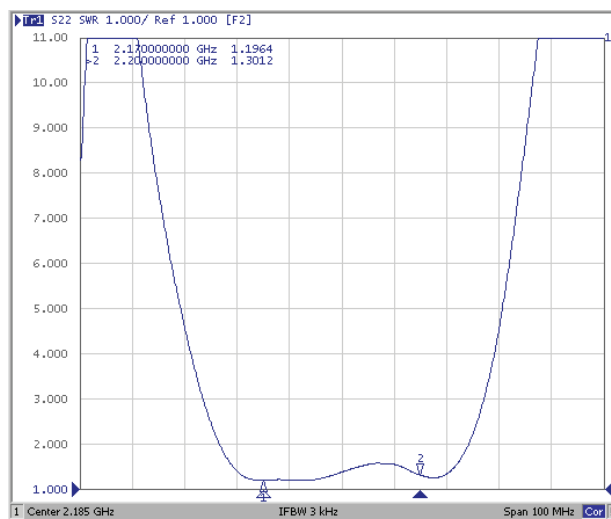


REFLECTION FUNCTIONS:

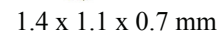
S11



S22



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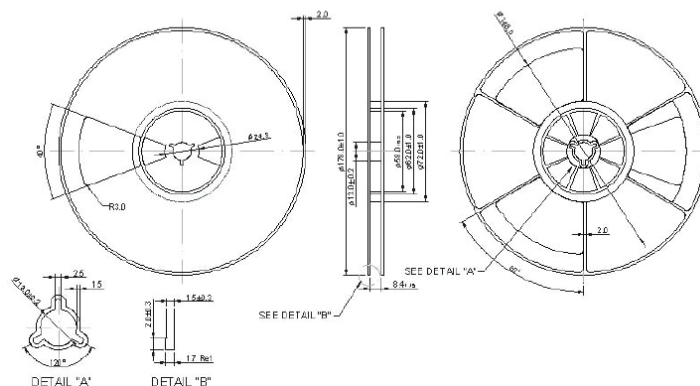
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Time (Sec)	Temp (Deg C)
0	25
20	25
40	150
60	150
80	155
100	155
120	170
140	180
160	200
180	230
200	255
220	260
240	245
260	170
280	145
300	145
320	130
340	115
360	110

Technical drawing of a mechanical part, likely a bracket or support, showing dimensions and tolerances. The drawing includes a side view and a top view.

Dimensions and Tolerances:

- Top view (left side):
 - Overall width: 0.2 ± 0.05
 - Distance from left edge to first hole center: 4.0 ± 0.1
 - Distance between hole centers: 2.0 ± 0.05
 - Hole diameter: $\phi 1.55 \pm 0.05$
 - Distance from last hole center to right edge: 4.0 ± 0.1
- Side view (left side):
 - Overall height: 1.73 ± 0.1
 - Distance from bottom edge to hole center: 0.75 ± 0.1
- Top view (right side):
 - Overall width: 1.75 ± 0.1
 - Distance from right edge to hole center: 3.5 ± 0.05
 - Hole diameter: $\phi 1.0$



ABRACON IS
ISO 9001:2008
CERTIFIED



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