

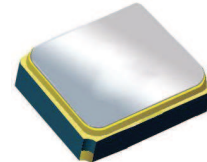
Surface Mount 2017.50MHz SAW Filter

AFS20A15-2017.50-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



RoHS
Compliant



2.0 x 1.6 x 0.9 mm

FEATURES:

- 2.0 x 1.6 x 0.9 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:

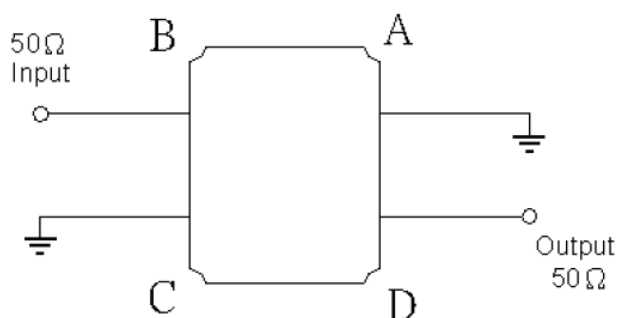
Maximum Ratings

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 + 95°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		2017.50		MHz	
Insertion Loss (IL)		1.25	2.20	dB	(2010 ~ 2025MHz)
Effective Bandwidth		15.00		MHz	
Amplitude Ripple		0.10	1.00	dB	(2010 ~ 2025MHz)
Worst-Case Input / Output Return Loss		16.54	10.16	dB	(2010 ~ 2025MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	30	33		dB	(DC ~ 1020MHz)
	20	33			(1220 ~ 1570MHz)
	30	34			(1570 ~ 1590MHz)
	20	34			(1590 ~ 1820MHz)
	31	34			(1820 ~ 1850MHz)
	20	27			(1850 ~ 1950MHz)
	19	21			(2085 ~ 2400MHz)
	29	33			(2400 ~ 2430MHz)
	25	32			(2430 ~ 2790MHz)
	30	32			(2790 ~ 2820MHz)
	25	34			(2820 ~ 3000MHz)
	20	32			(3000 ~ 4010MHz)
	25	32			(4010 ~ 4060MHz)
	10	22			(4060 ~ 6000MHz)
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:

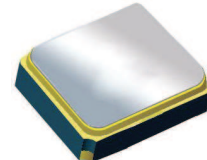


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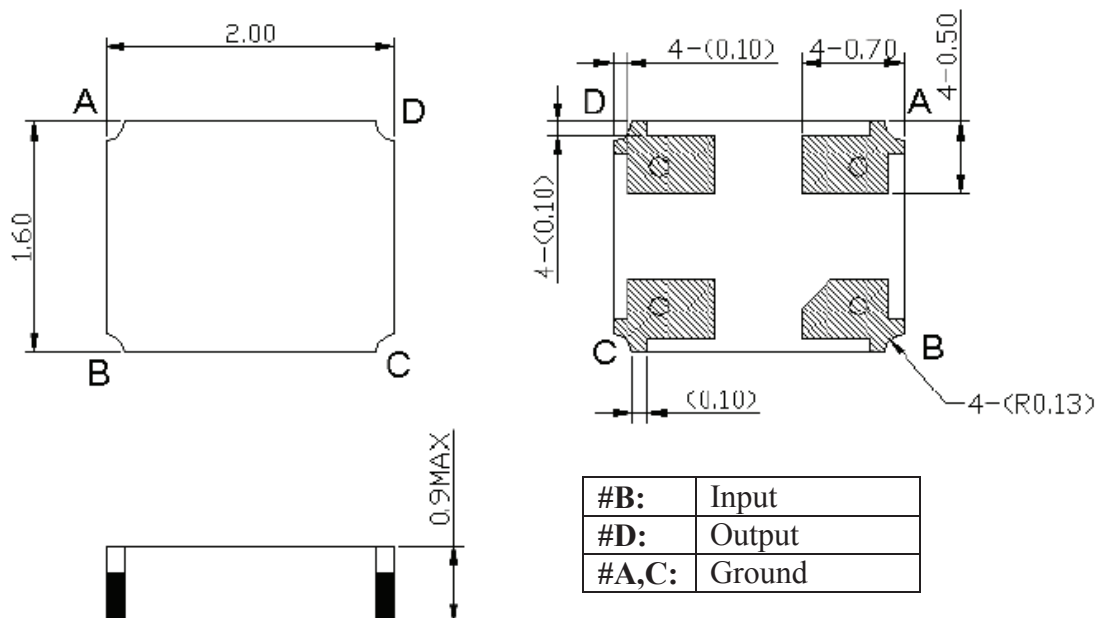


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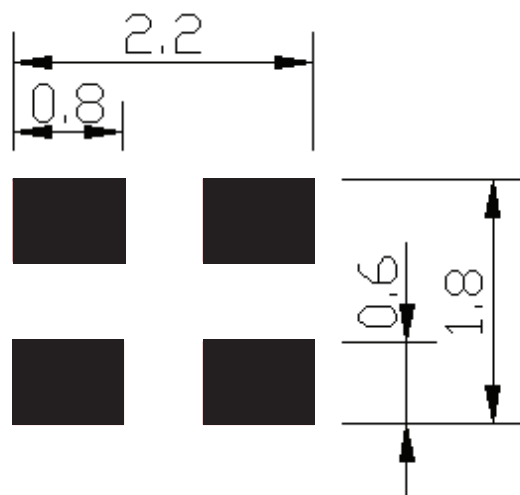
2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:



*All Dimensions are in mm

Recommended Land Pattern:

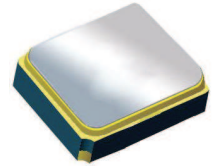


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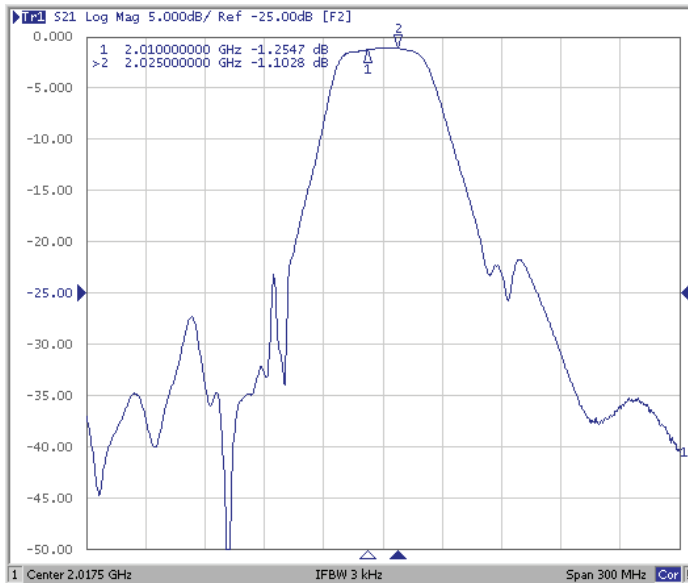
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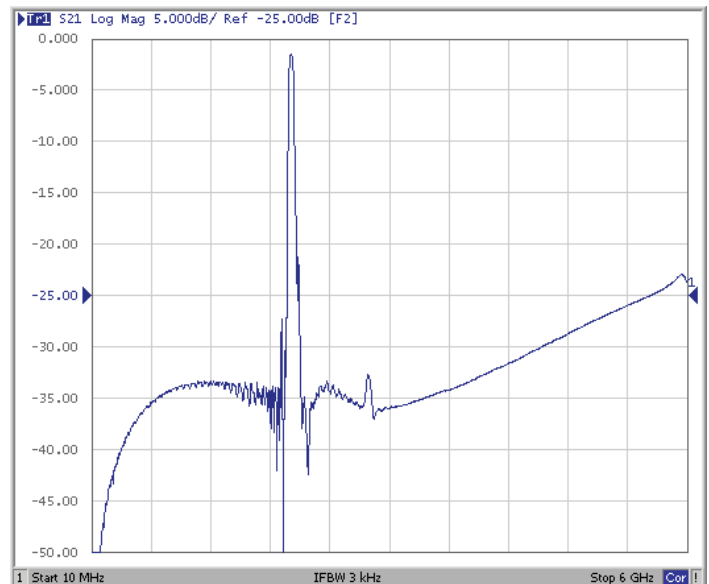
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

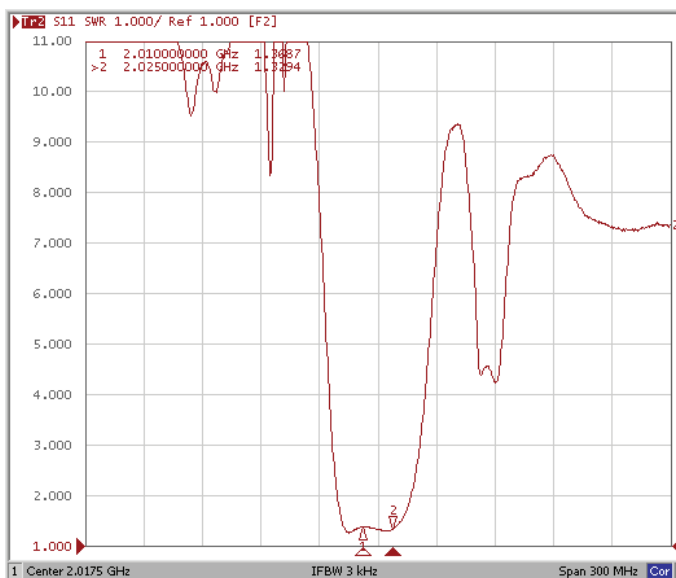


Filter Frequency Response (Wideband)

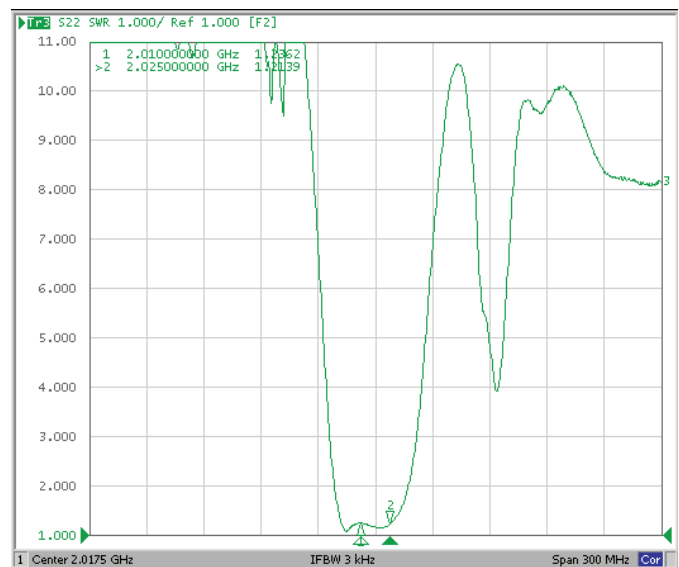


REFLECTION FUNCTIONS:

S11



S22



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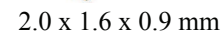
ABRACON
CORPORATION

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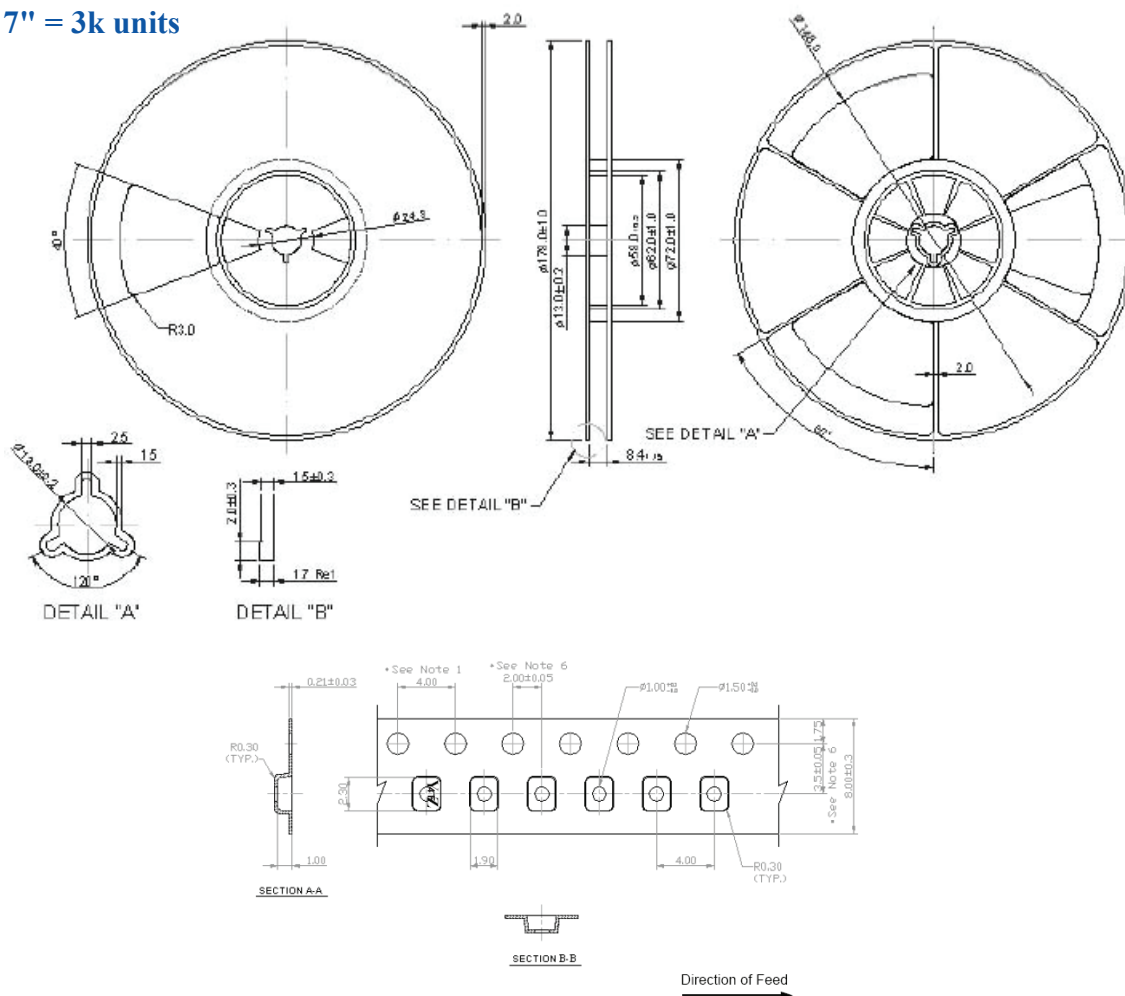


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The graph illustrates the temperature profile over time. The temperature starts at 25°C at 0 seconds, rises sharply to 145°C by 40 seconds, then more gradually to a peak of 265°C at 220 seconds. After the peak, the temperature drops sharply to 145°C by 280 seconds and continues to decrease to 110°C at 360 seconds.

Time (Sec)	Temp (Deg C)
0	25
20	25
40	145
60	150
80	155
100	160
120	170
140	175
160	190
180	210
200	250
220	265
240	245
260	170
280	145
300	145
320	130
340	115
360	110

Reel Count : 7" = 3k units



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