

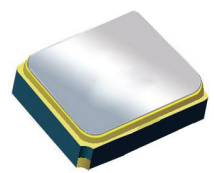
Surface Mount 1910.00MHz SAW Filter

AFS20A20-1910.00-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:

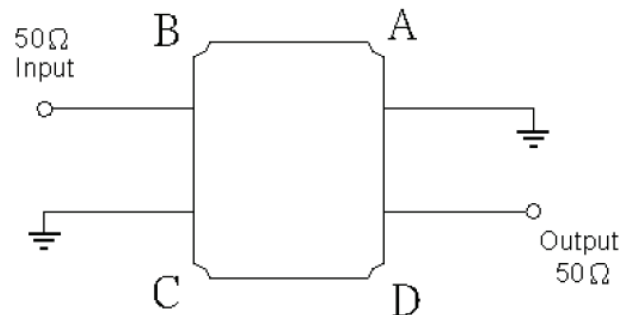
Maximum Ratings

Item	Value
Input Power Level	+15 dBm max.
DC Permissive Voltage	5.0V DC max.
Operating Temperature Range	0°C to + 70°C
Storage Temperature Range	-30°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		1910.00		MHz	
Insertion Loss (IL)		1.20	1.80	dB	(1900 ~ 1920MHz)
Effective Bandwidth		20.00		MHz	
Amplitude Ripple		0.4	2.00	dB	(1900 ~ 1920MHz)
Worst-Case Input / Output Return Loss		16.0	8.0	dB	(1900 ~ 1920MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	15	32		dB	(925 ~ 1600MHz)
	25	28			(1600 ~ 1825MHz)
	20	29			(1825 ~ 1840MHz)
	10	35			(1840 ~ 1850MHz)
	5	13.50			(1850 ~ 1880MHz)
	25	32			(2040 ~ 2660MHz)
	25	33			(2660 ~ 3000MHz)
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:

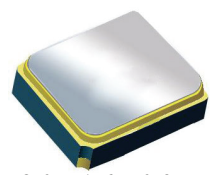


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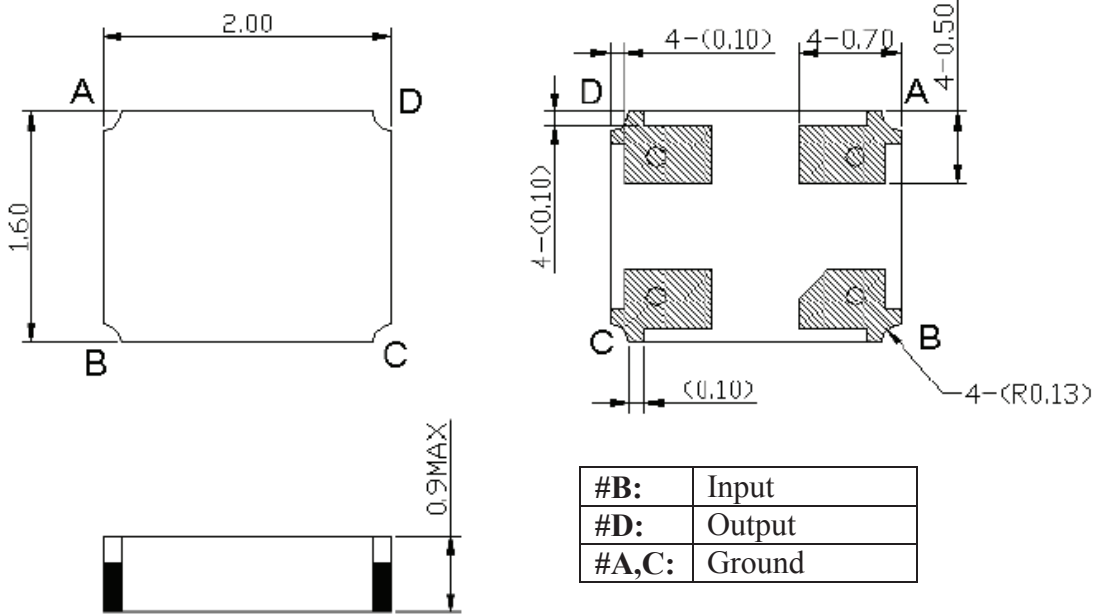


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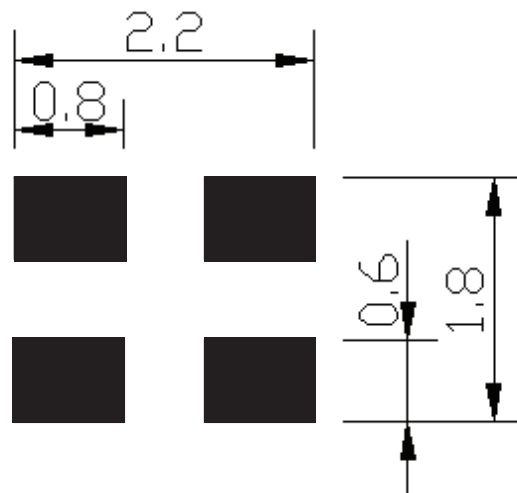
2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:



*All Dimensions are in mm

Recommended Land Pattern:

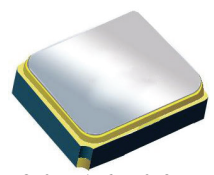


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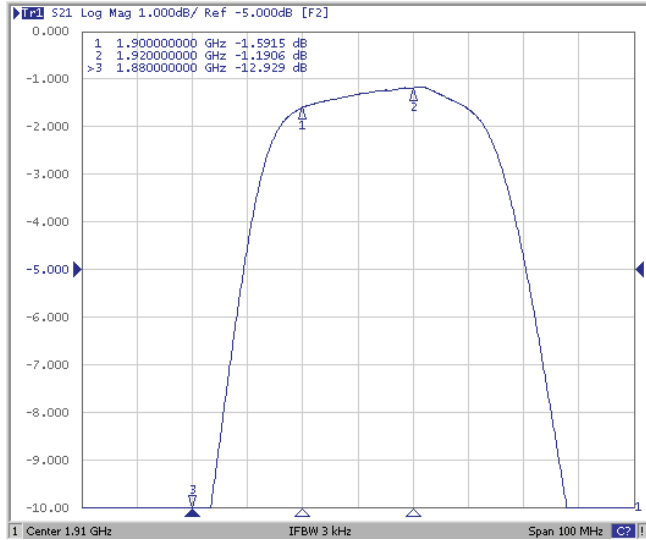
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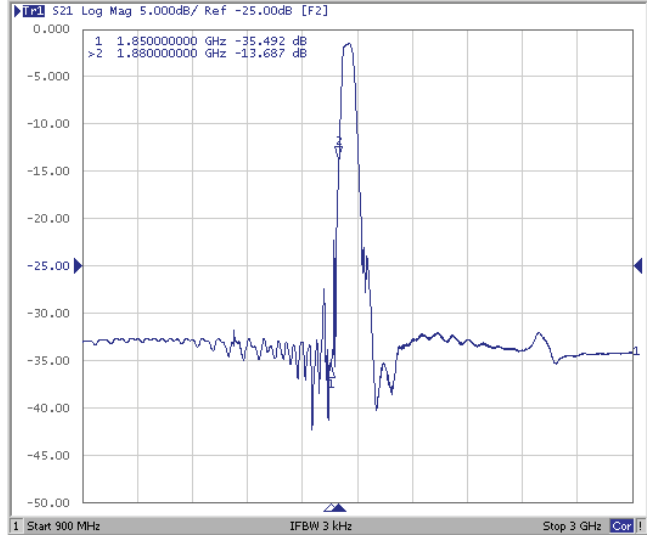
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

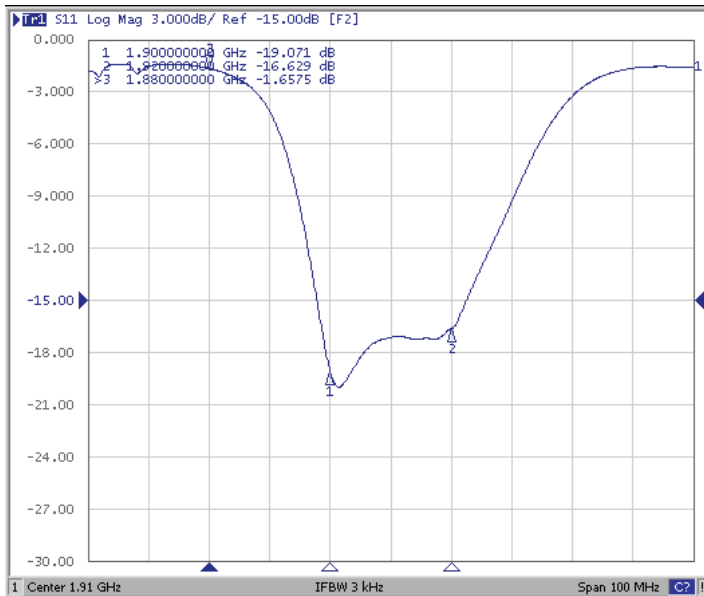


Filter Frequency Response (Wideband)

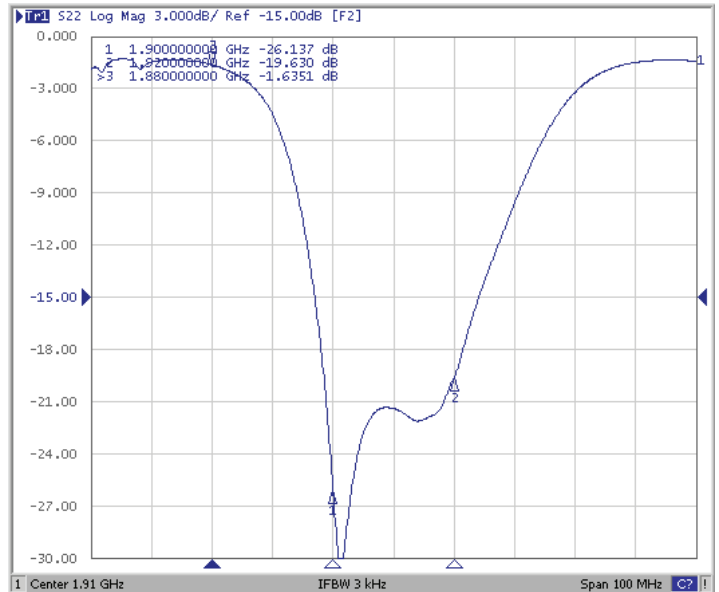


REFLECTION FUNCTIONS:

S11



S22

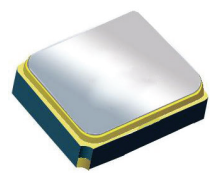


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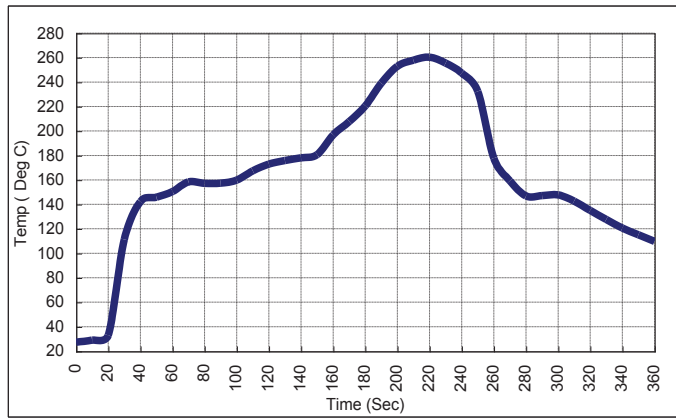


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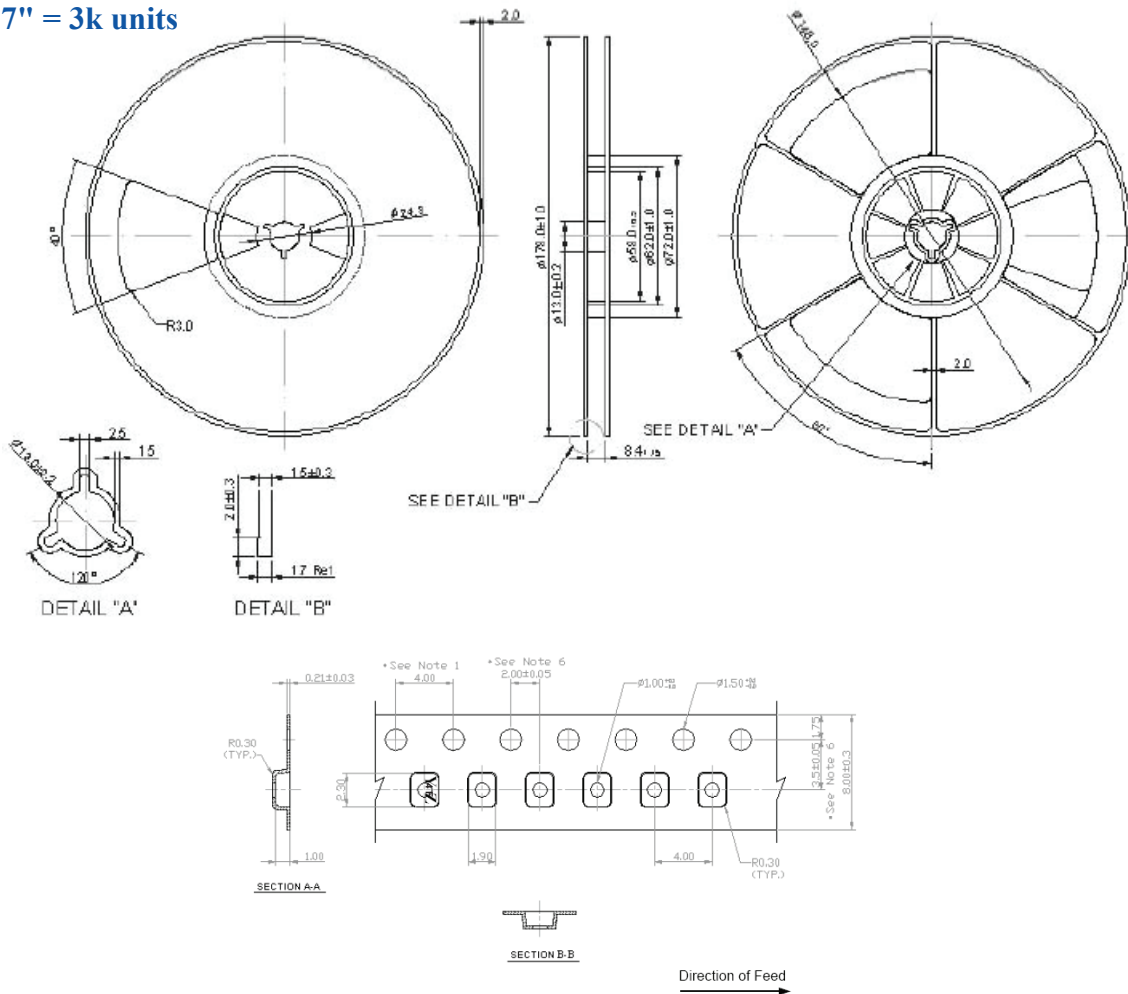
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REFLOW PROFILE:



PACKAGING: 3000 Units/Reel "T2" parts (2k/reel) are no longer available effective 01/01/2013

Reel Count : 7" = 3k units



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