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Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China

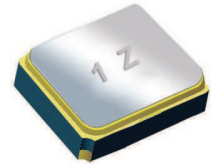


# Surface Mount 1672.50MHz SAW Filter

AFS20A05-1672.50-T2



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:

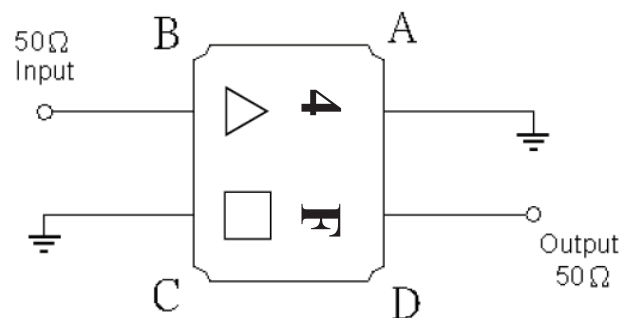
### Maximum Ratings

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

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency ( $f_c$ )		1672.50		MHz	
Insertion Loss (IL)		1.60	2.20	dB	(1670 ~ 1675MHz)
3-dB Bandwidth		2.00		MHz	
Amplitude Ripple		0.20	0.50	dB	(1670 ~ 1675MHz)
Worst-Case Input / Output Return Loss		17.70	10.88	dB	(1670 ~ 1675MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	33	35.5		dB	(824 ~ 849MHz)
	30	35.5			(849 ~ 1500MHz)
	36	40			(1850 ~ 1910MHz)
	25	41			(1930 ~ 1990MHz)
	25	33			(2180 ~ 4000MHz)
Source Impedance ( $Z_s$ )		50		$\Omega$	See note # 1
Load Impedance ( $Z_L$ )		50		$\Omega$	See note # 1

**Note #1:** No matching network required for operation into 50 $\Omega$ 's

## TEST CIRCUIT:

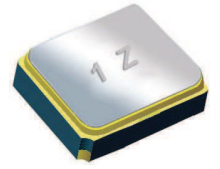


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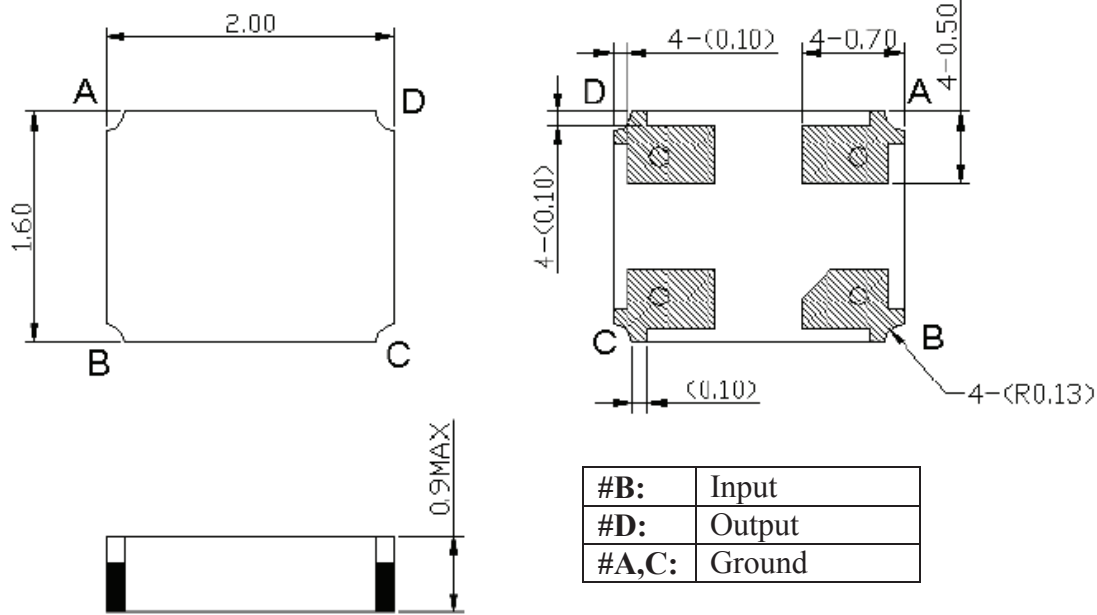


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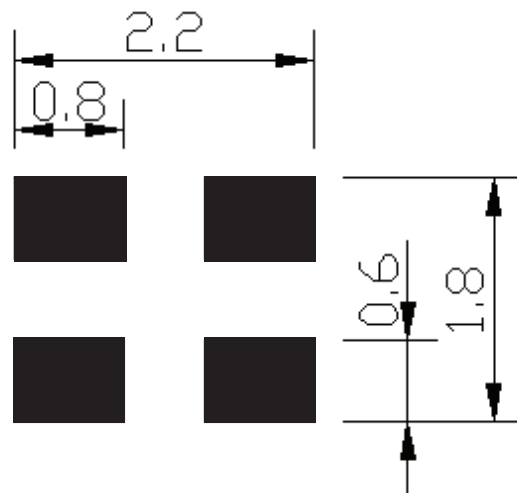
2.0 x 1.6 x 0.9 mm

## OUTLINE DIMENSIONS:



\*All Dimensions are in mm

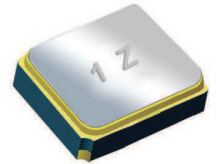
## Recommended Land Pattern:





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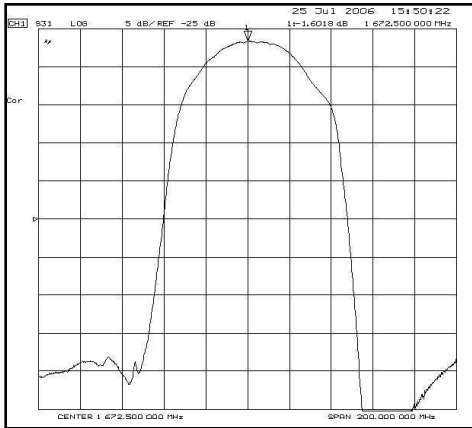
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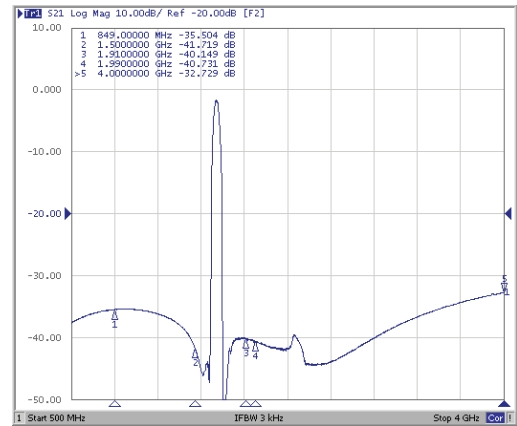
2.0 x 1.6 x 0.9 mm

## FREQUENCY CHARACTERISTICS:

### Filter Frequency Response (Narrowband)

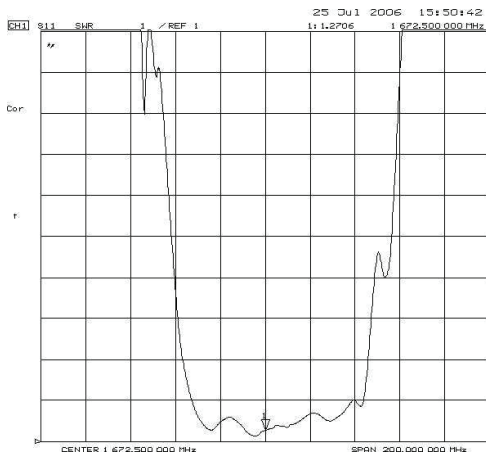


### Filter Frequency Response (Wideband)

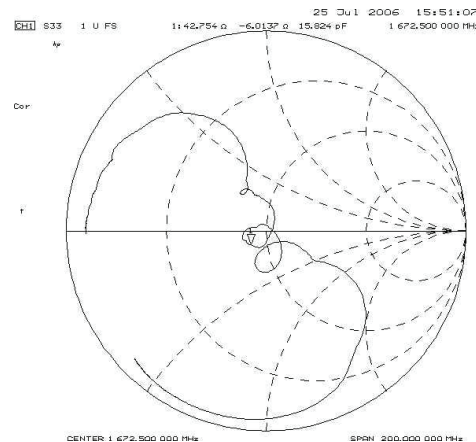
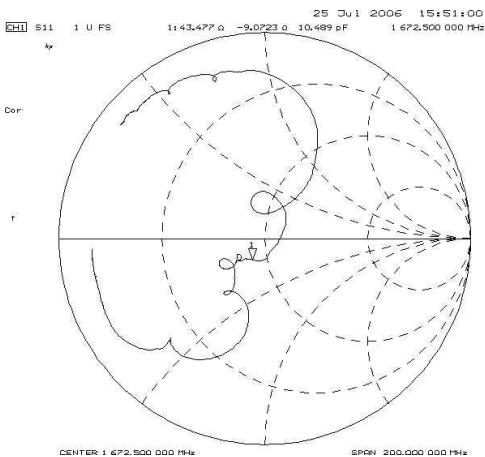
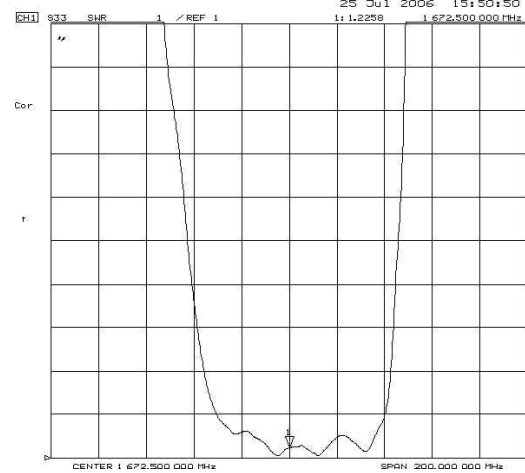


## REFLECTION FUNCTIONS:

### S11



### S22



Detail S-parameter information (.s2p file) available upon request

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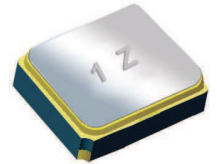
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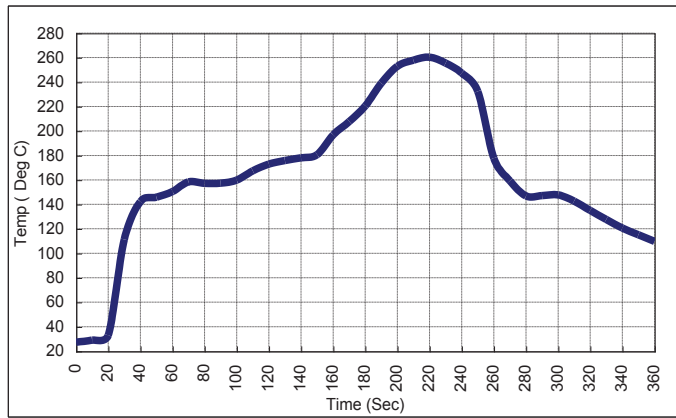


RoHS Compliant



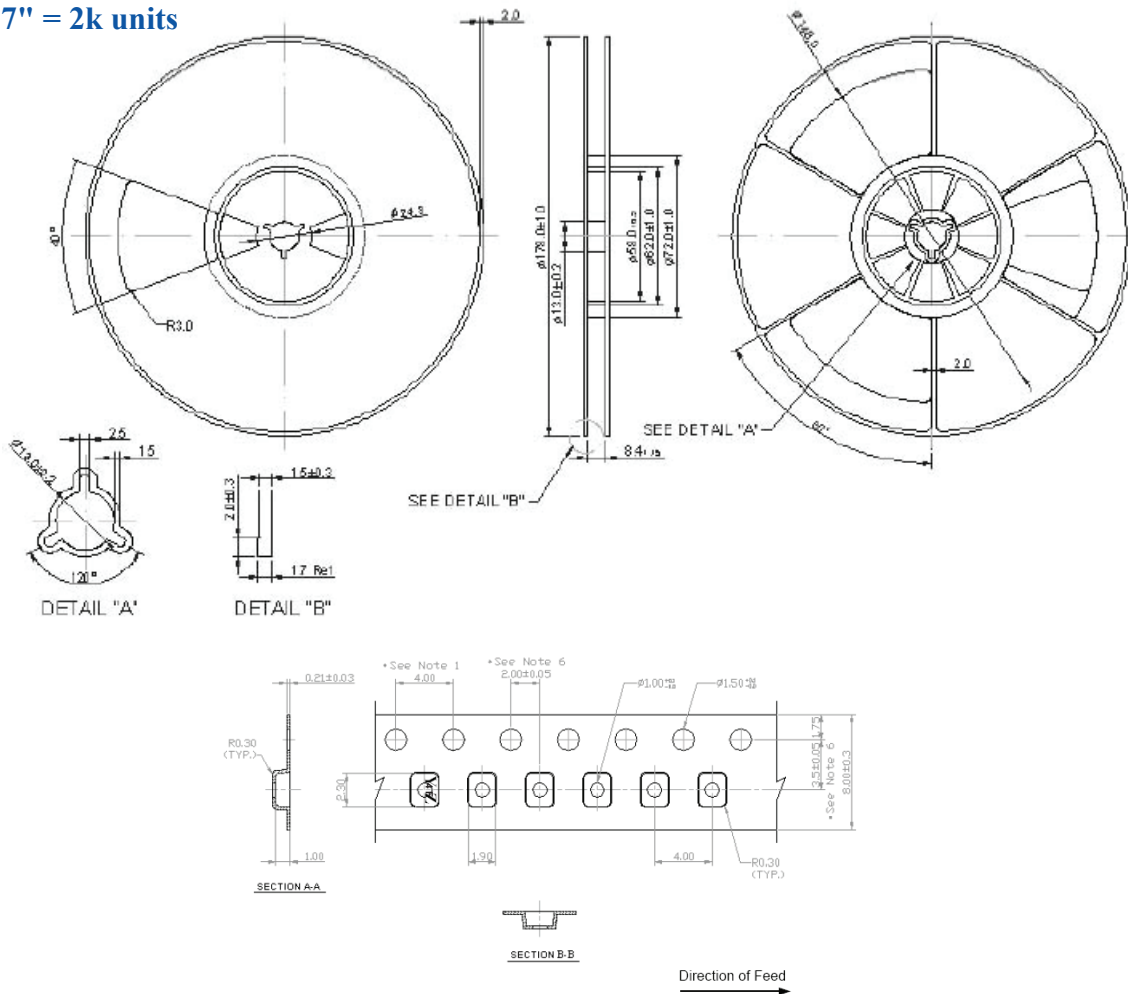
2.0 x 1.6 x 0.9 mm

## REFLOW PROFILE:



## PACKAGING: 2000 Units/Reel

Reel Count : 7" = 2k units



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