

# Surface Mount 719.0MHz SAW Filter

AFS20A05-719.00-T3

 RoHS/RoHS II Compliant



2.0 x 1.6 x 0.75 mm

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

## FEATURES:

- 2.0 x 1.6 x 0.75 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:

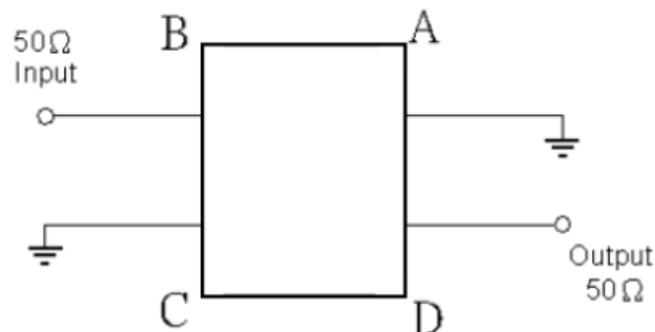
### Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3V DC max.
Operating Temperature Range	-30°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency ( $f_c$ )		719		MHz	
Insertion Loss (IL)		3.00	3.20	dB	716.5 ~ 721.5MHz
Effective Bandwidth		5.00		MHz	
Amplitude Ripple		0.90	2.20	dB	716.5 ~ 721.5MHz
Group Delay Variation		38	95	ns	716.5 ~ 721.5MHz
Worst-Case Input / Output Return Loss	5	8		dB	716.5 ~ 721.5MHz
Stop-band Attenuation (Referenced to 0.0 dB)	40	49		dB	DC ~ 690MHz
	35	44			690 ~ 704MHz
	30	44			704 ~ 710MHz
	25	30			728 ~ 734MHz
	27	40			734 ~ 750MHz
	37	50			750 ~ 824MHz
	45	51			824 ~ 960MHz
	32	35			960 ~ 2500MHz
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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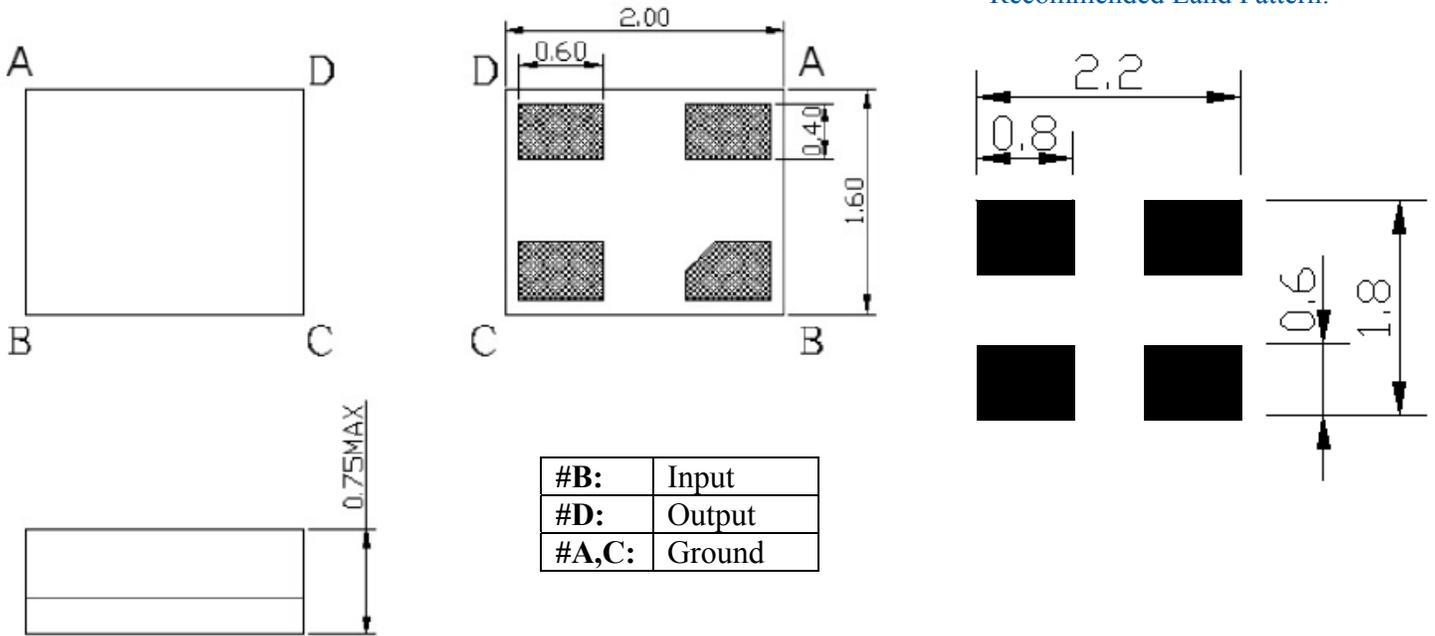
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2.0 x 1.6 x 0.75 mm

## OUTLINE DIMENSIONS:

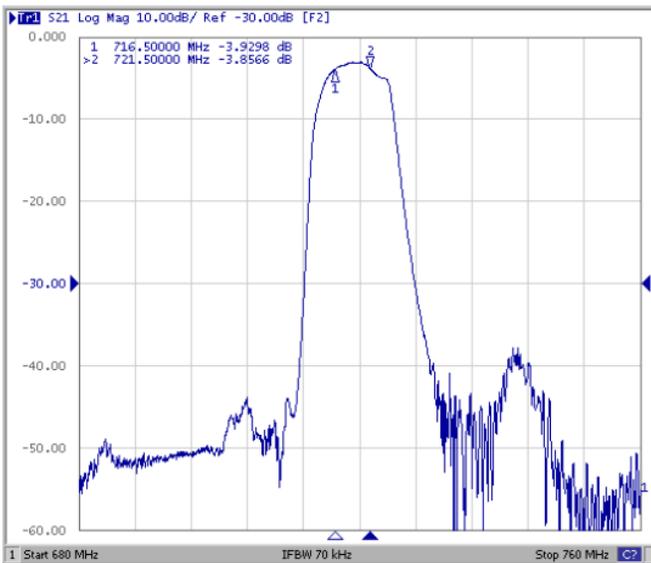
Recommended Land Pattern:



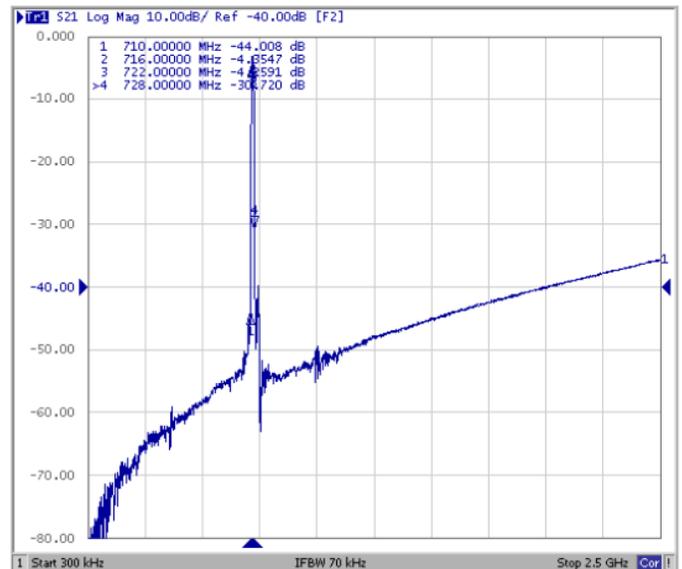
\*All Dimensions are in mm

## FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)



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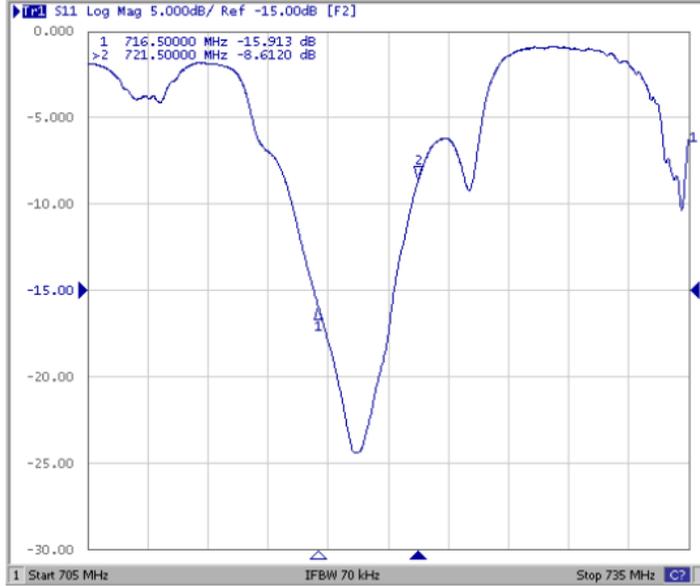
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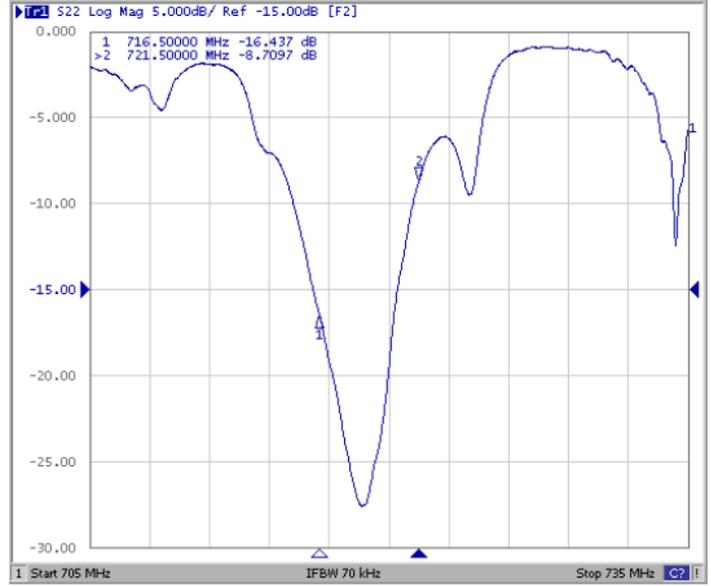
2.0 x 1.6 x 0.75 mm

## FREQUENCY CHARACTERISTIC:

Input Return Loss (S11)

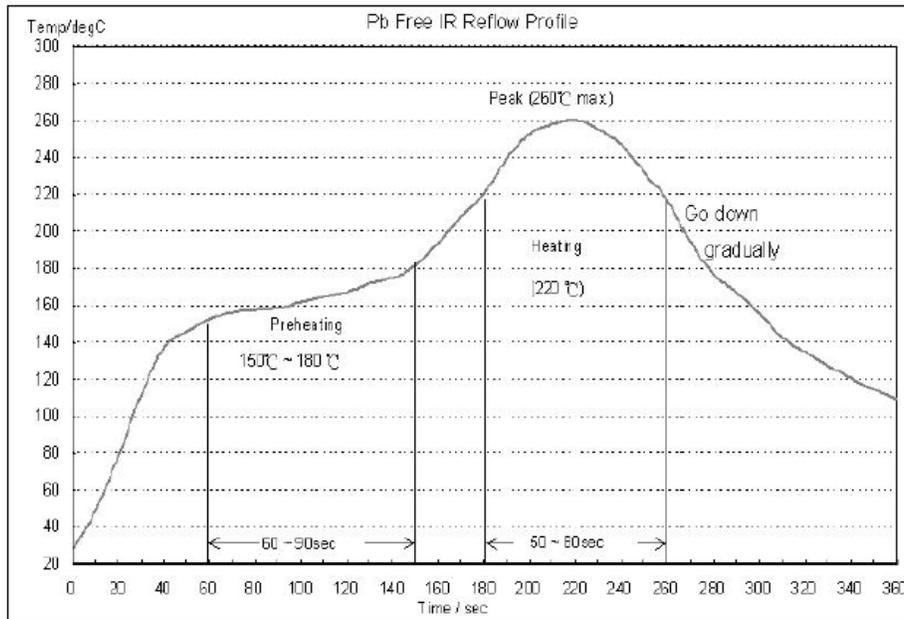


Output Return Loss (S22)



Note # 2: Detail S-parameter information (.s2p file) available upon request

## REFLOW PROFILE:



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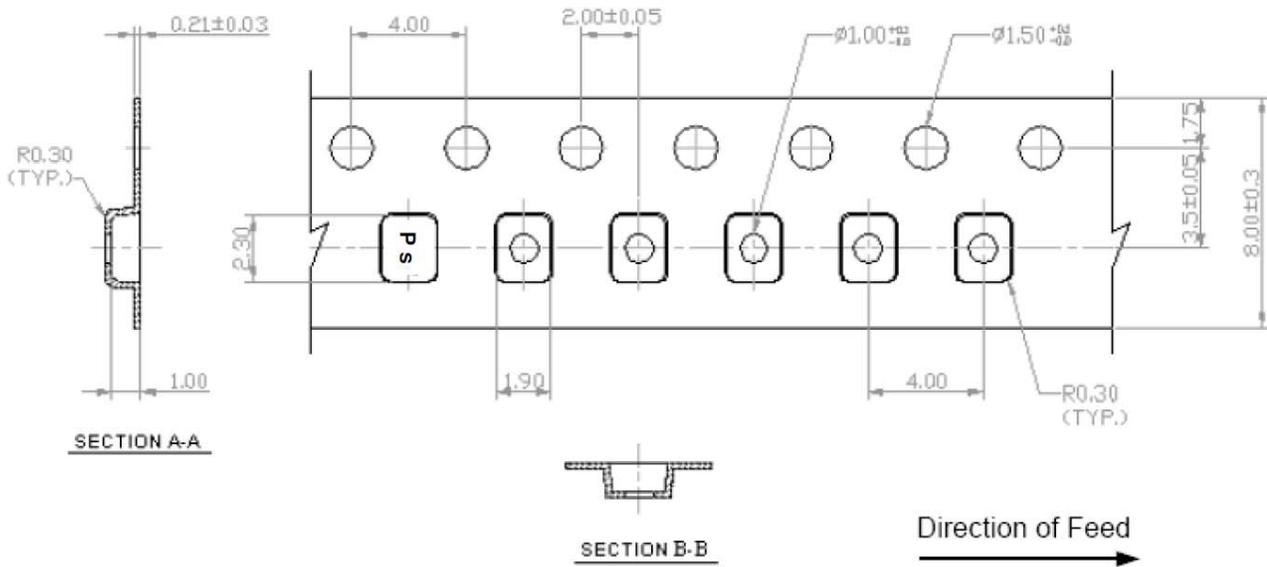
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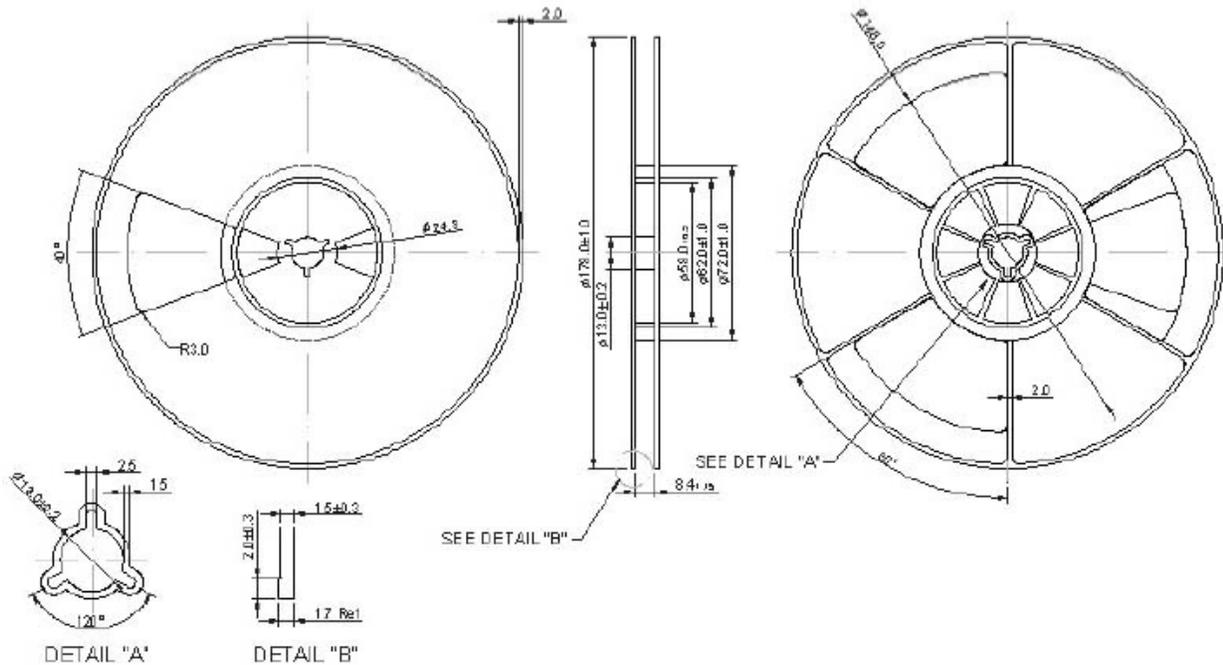
2.0 x 1.6 x 0.75 mm

PACKAGING: 3,000 units/reel

## Tape Dimensions



## Reel Dimensions



Dimensions: mm

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