



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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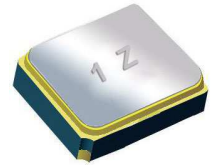


# Surface Mount 719.0MHz SAW Filter

AFS20A05-719.00-T2



RoHS  
Compliant



2.0 x 1.6 x 0.9 mm

## FEATURES:

- 2.0 \* 1.6 \* 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

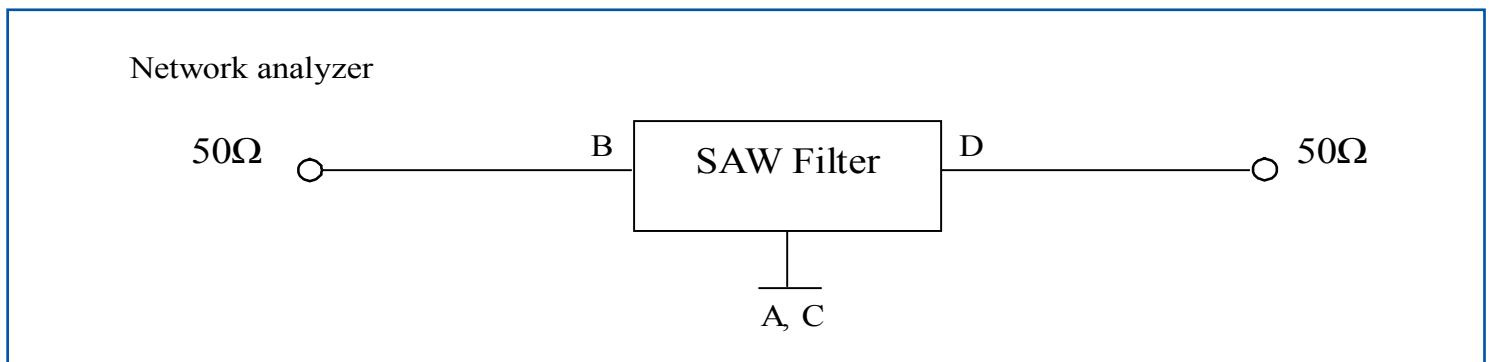
Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3V DC max.
Operating Temperature Range	-30°C to + 85°C
Storage Temperature Range	-40°C to + 85°C

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency ( $f_c$ )		719		MHz	
Insertion Loss (IL)		2.70	3.20	dB	716.5 ~ 721.5MHz
3-dB Bandwidth		5.00		MHz	
Amplitude Ripple		0.70	2.20	dB	716.5 ~ 721.5MHz
Group Delay Variation		42	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	54		dB	DC ~ 690MHz
	35	47			690 ~ 704MHz
	30	48			704 ~ 710MHz
	25	29			728 ~ 734MHz
	27	33			734 ~ 750MHz
	37	53			750 ~ 824MHz
	45	54			824 ~ 960MHz
	32	39			960 ~ 2500MHz
Source Impedance ( $Z_s$ )		50		$\Omega$	See note # 1
Load Impedance ( $Z_L$ )		50		$\Omega$	See note # 1

**Note #1:**

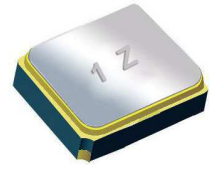
No matching network required for operation into 50 $\Omega$ 's

## TEST CIRCUIT:



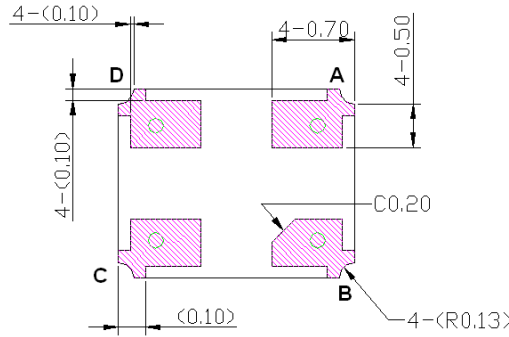
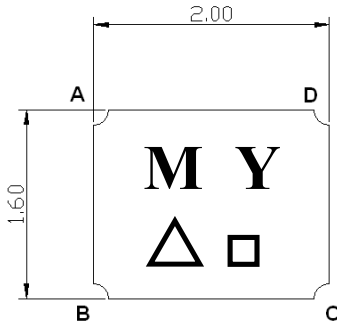
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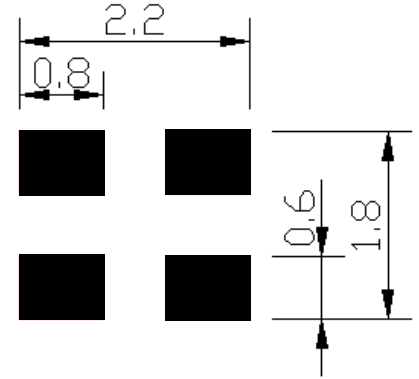


2.0 x 1.6 x 0.9 mm

## OUTLINE DIMENSIONS:



## Recommended Land Pattern:



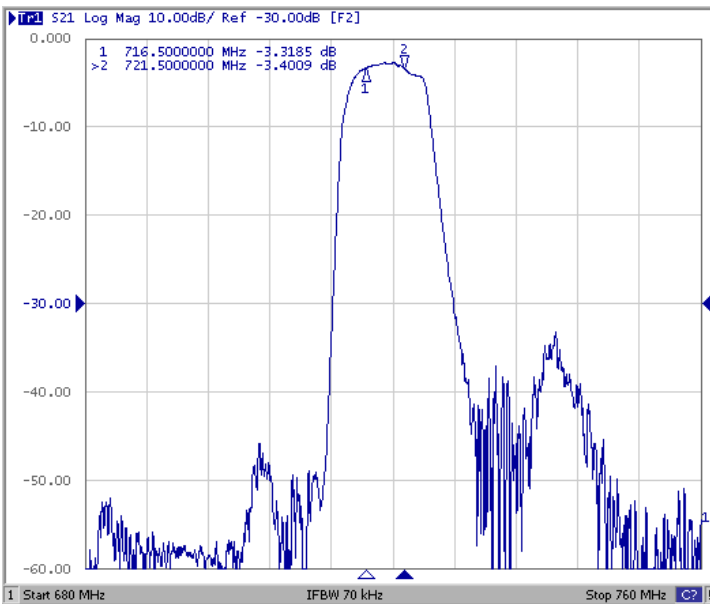
#B:	Input
#D:	Output
#A,C:	Ground
Unit:	mm

- △ = Year (1=2011, for example)
- = Week (A through Z → Week-01~ Week-26)  
(a through z → Week-27~ Week-52)

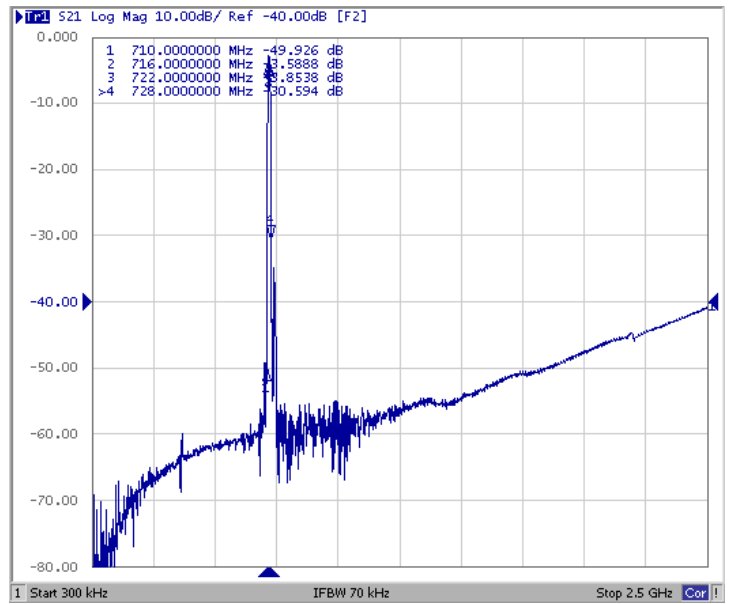
\*All Dimensions are in mm

## FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)

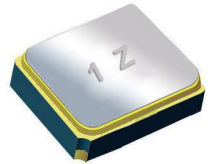


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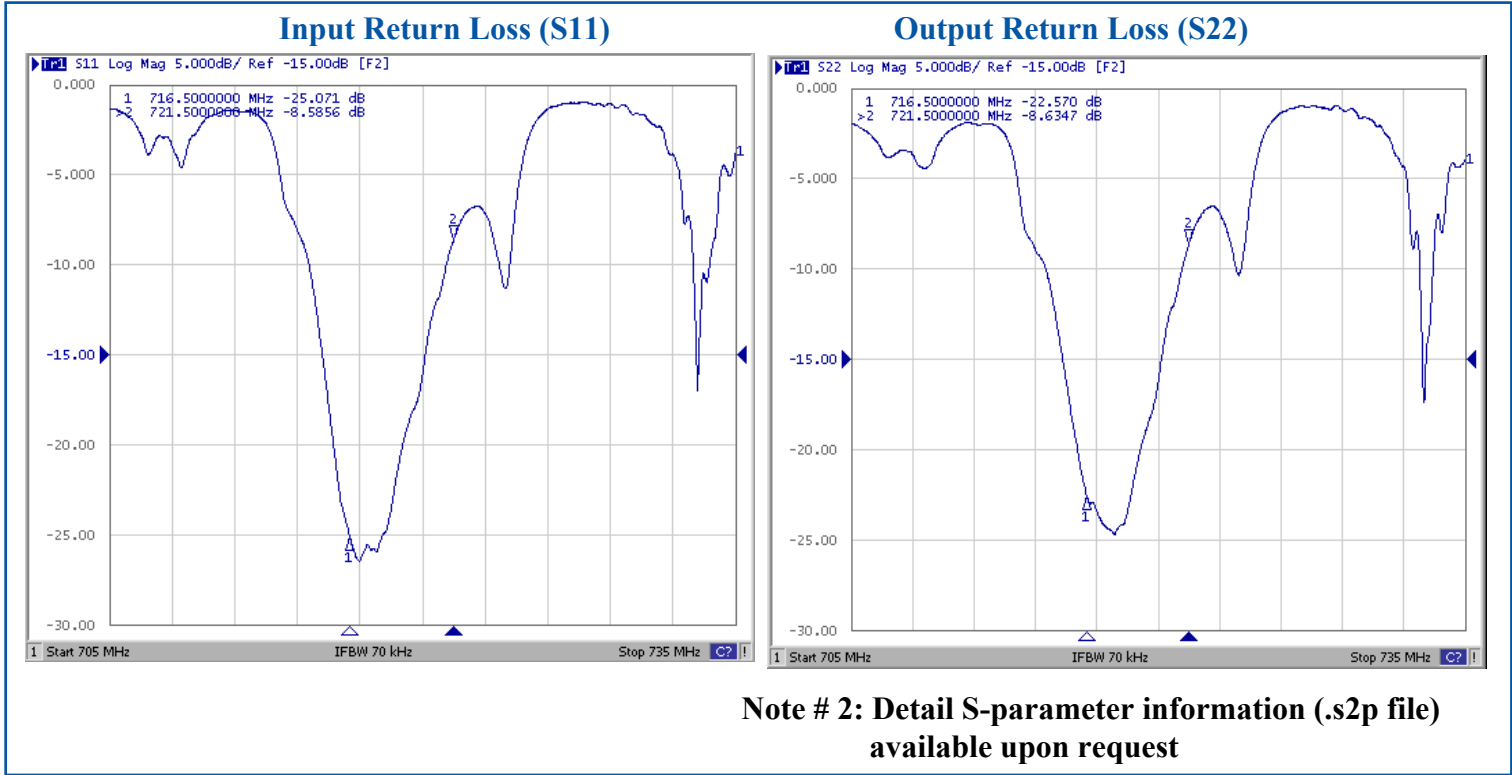


RoHS  
Compliant

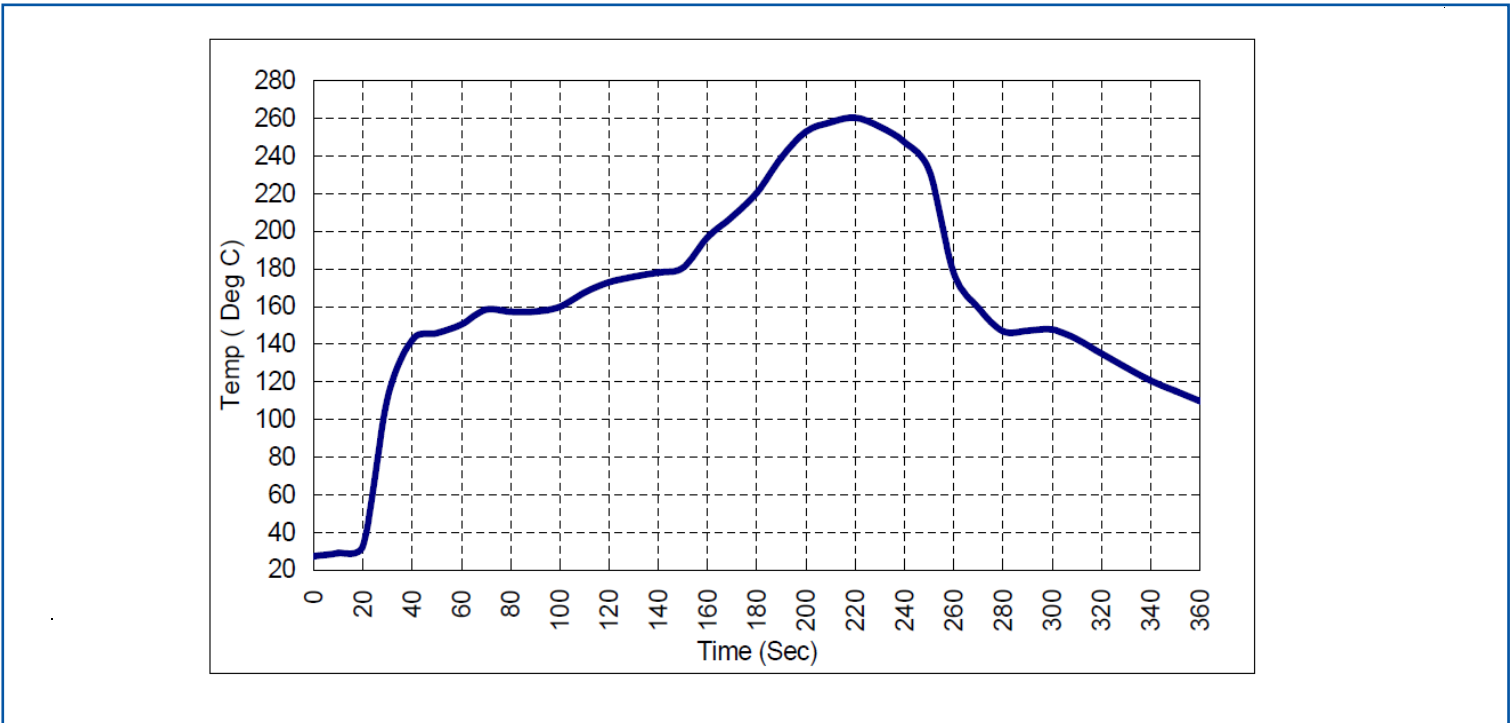


2.0 x 1.6 x 0.9 mm

## FREQUENCY CHARACTERISTIC:



## REFLOW PROFILE:

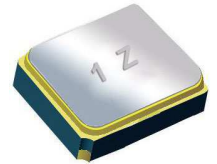


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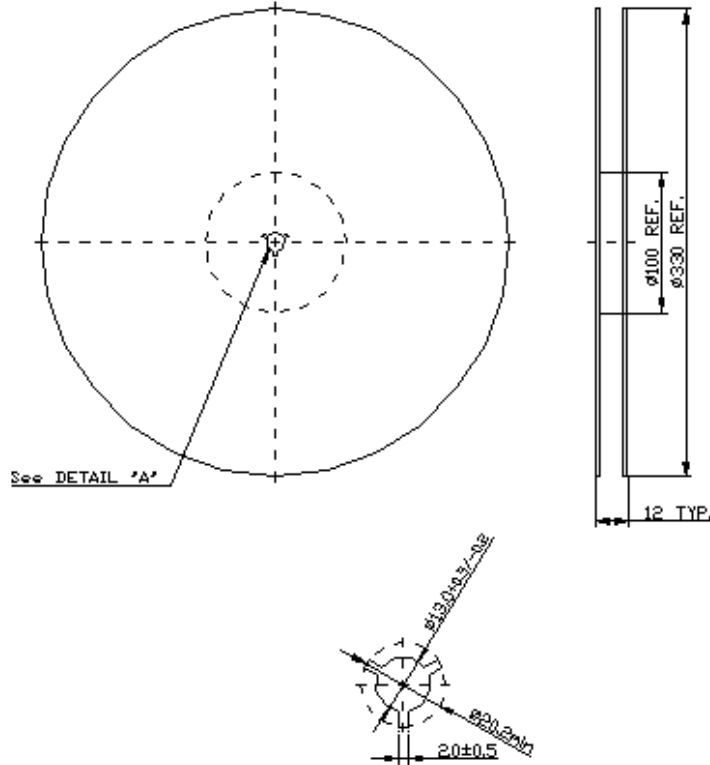
RoHS  
Compliant



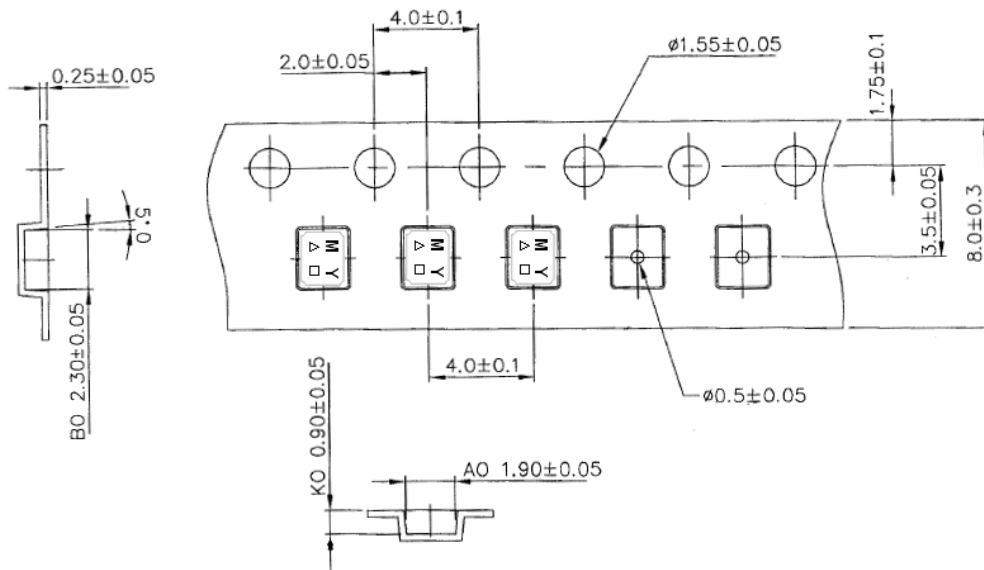
2.0 x 1.6 x 0.9 mm

PACKAGING: 2,000 units/reel

## Reel Dimensions



## Tape Dimensions



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