

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

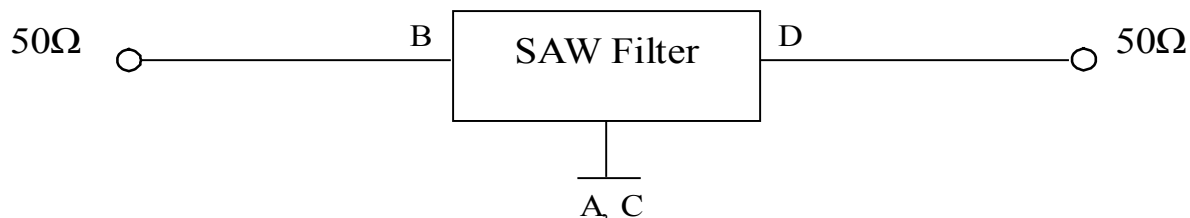
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		719		MHz	
Insertion Loss (IL)		2.70	3.20	dB	716.5 ~ 721.5MHz
3-dB Bandwidth		5.00		MHz	
Amplitude Ripple		0.70	2.20	dB	716.5 ~ 721.5MHz
Group Delay Variation		42	95	ns	716.5 ~ 721.5MHz
Worst-Case Input / Output Return Loss		5	8	dB	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		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:

Network analyzer



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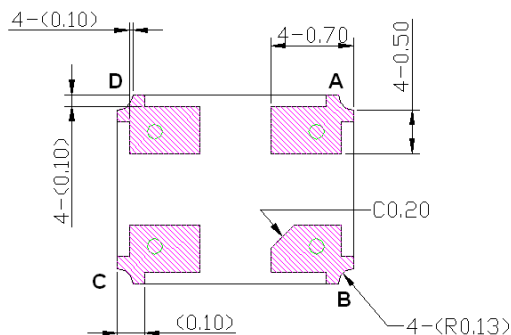
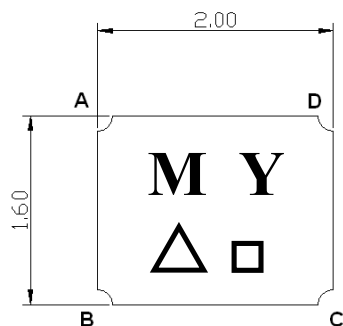


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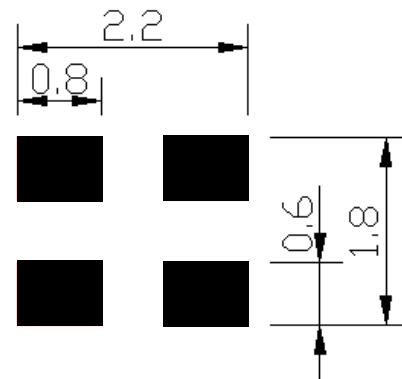


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OUTLINE DIMENSIONS:



Recommended Land Pattern:



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

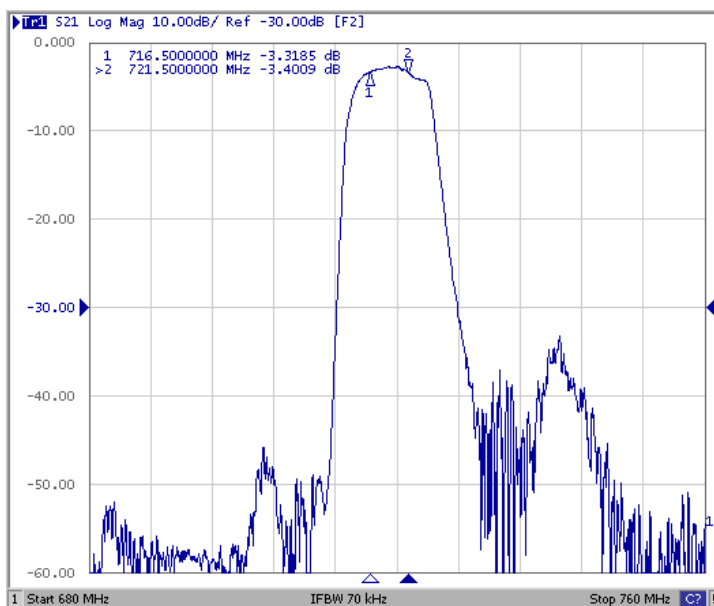
△ = Year (1=2011, for example)

□ = Week (A through Z → Week-01~ Week-26)
(a through z → Week-27~ Week-52)

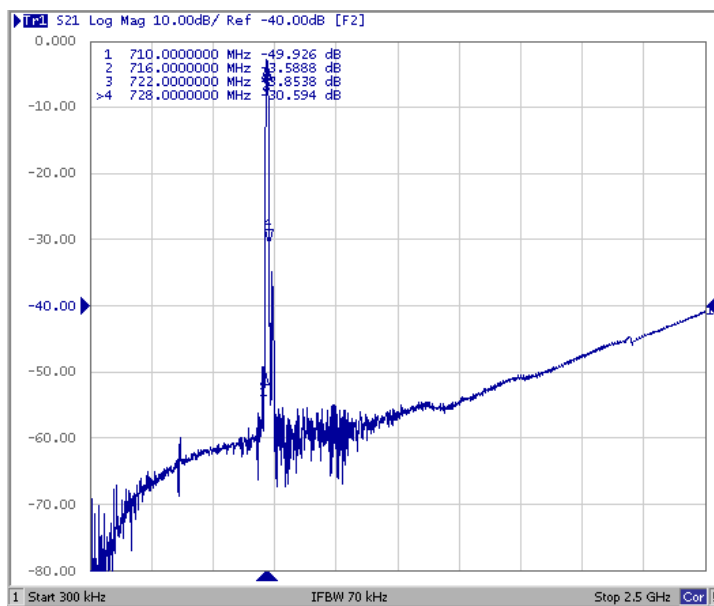
*All Dimensions are in mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)

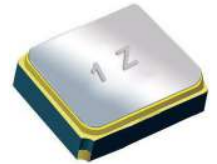


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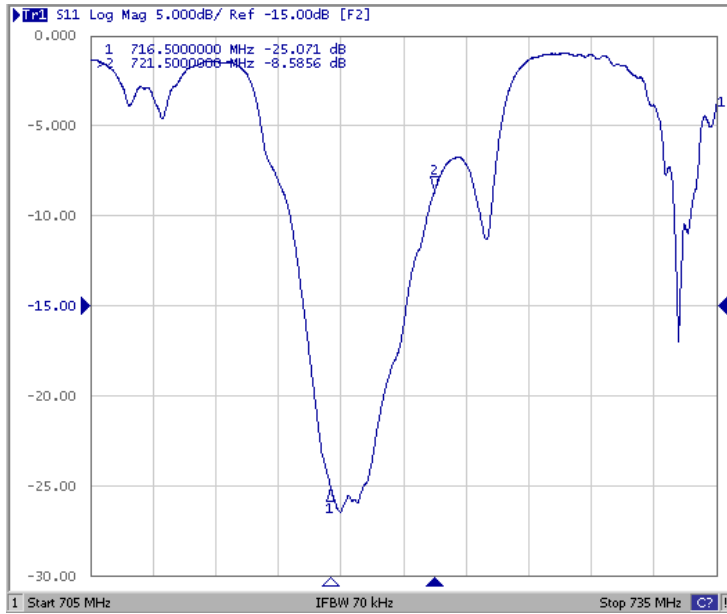
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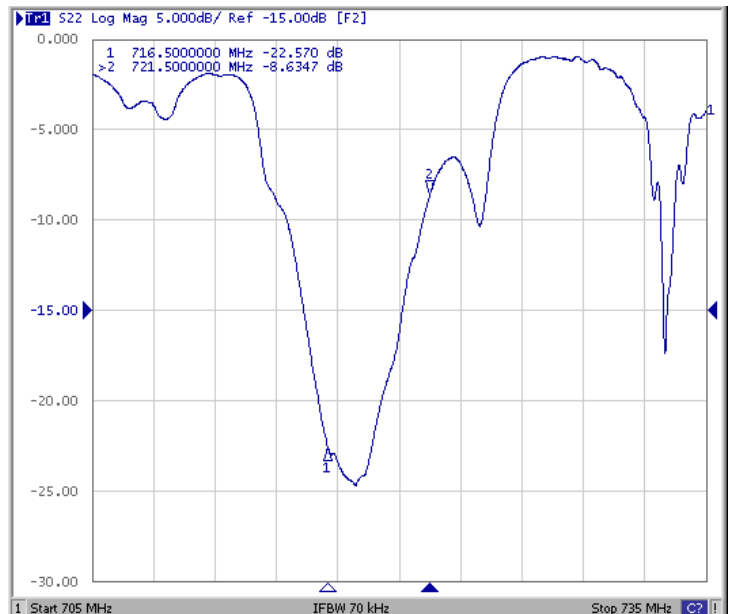
2.0 x 1.6 x 0.9 mm

FREQUENCY CHARACTERISTIC:

Input Return Loss (S11)

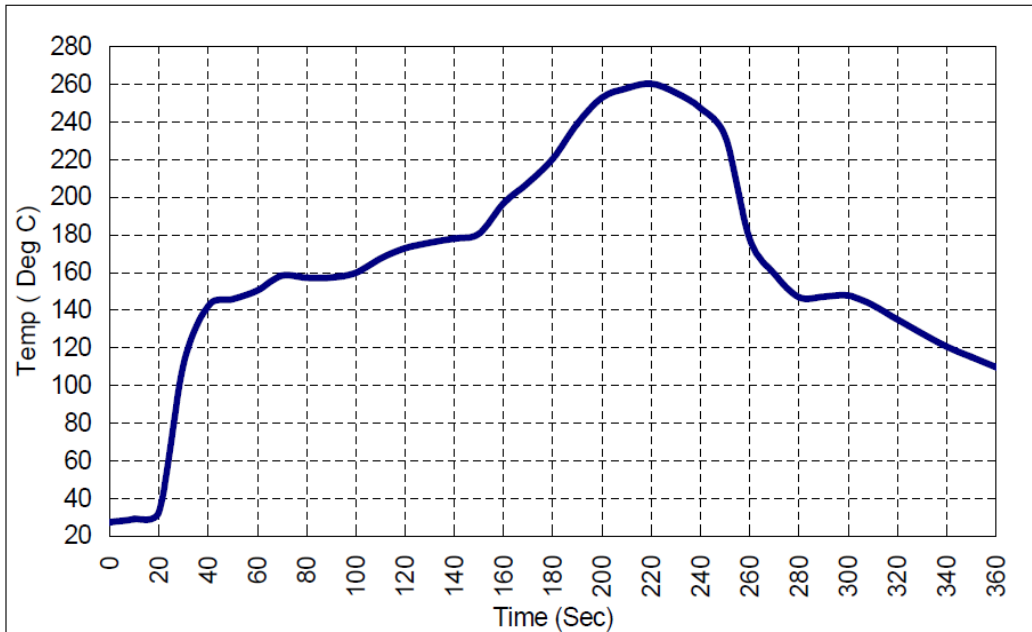


Output Return Loss (S22)



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

REFLOW PROFILE:

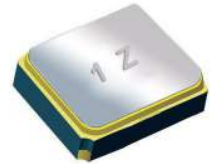


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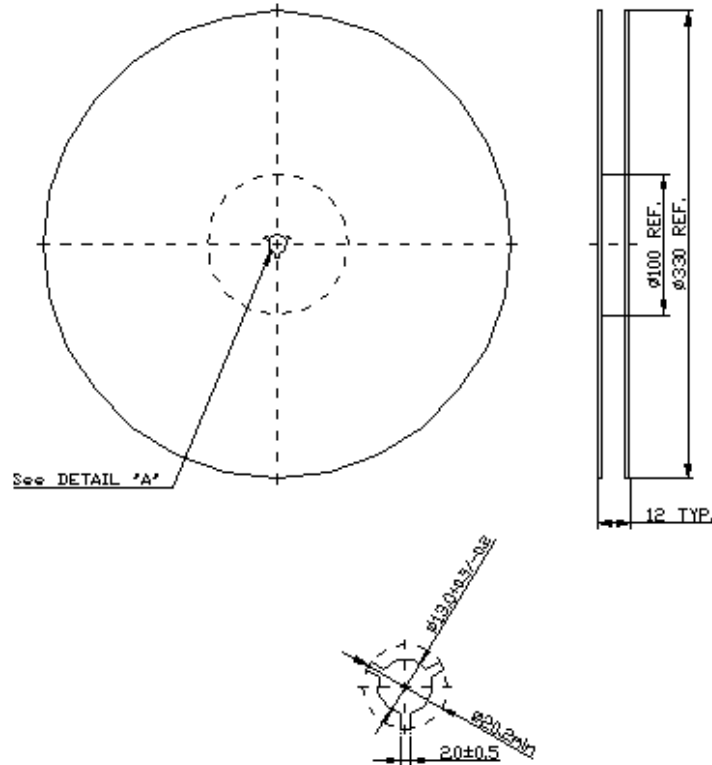
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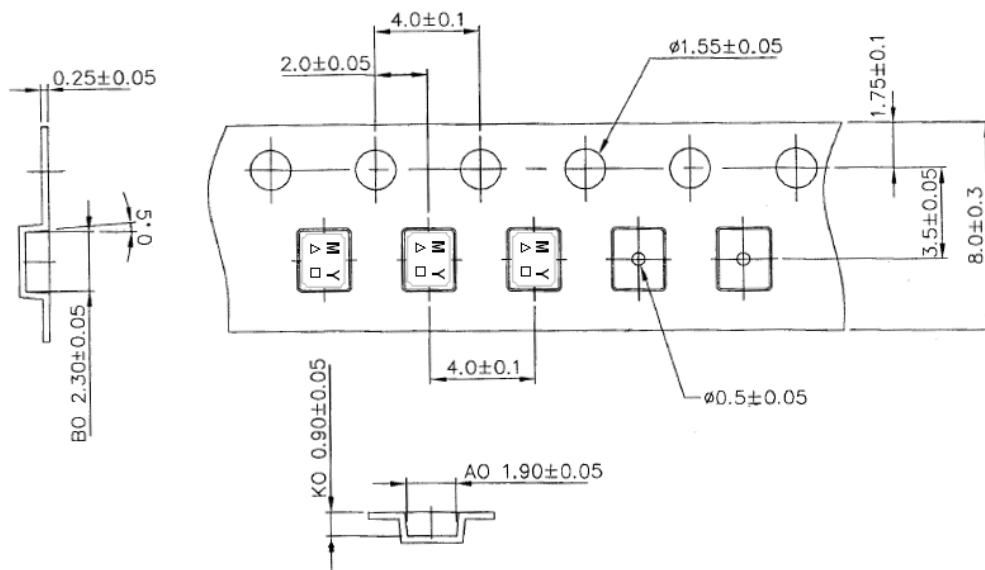
2.0 x 1.6 x 0.9 mm

PACKAGING: 2,000 units/reel

Reel Dimensions



Tape Dimensions



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