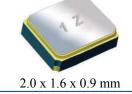
Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T2





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:

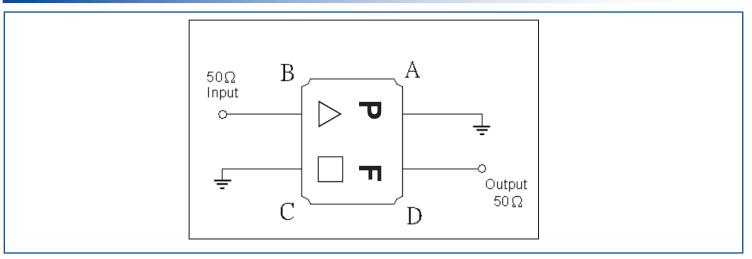
Maximum Ratings

Item	Value		
Input Power Level	+20 dBm max.		
DC Permissive Voltage	3.0V DC max.		
Operating Temperature Range	-55°C to + 105°C		
Storage Temperature Range	-55°C to + 105°C		

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f _c)		1575.42		MHz	
Insertion Loss (IL)		2.1	3.0	dB	1565.42 ~ 1585.42MHz
3-dB Bandwidth	20	53		MHz	
Amplitude Ripple		1.3	2.0	dB	1565.42 ~ 1585.42MHz
Worst-Case Input / Output Return Loss	8	11		dB	1565.42 ~ 1585.42MHz
Group Delay		4	26		1565.42 ~ 1585.42MHz
Stop-band Attenuation (Referenced to 0.0 dB)	15	19			300 ~ 1500MHz
	15	21		dB	1650MHz ~ 1900MHz
	15	21			1900MHz ~ 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 50Ω 's

TEST CIRCUIT:



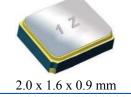




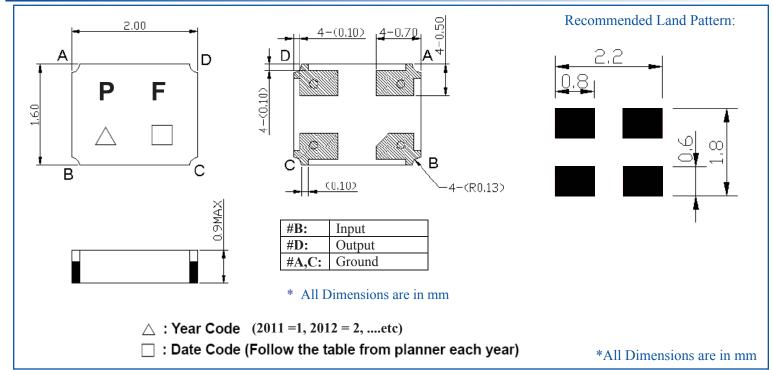
Surface Mount 1575.42MHz SAW Filter

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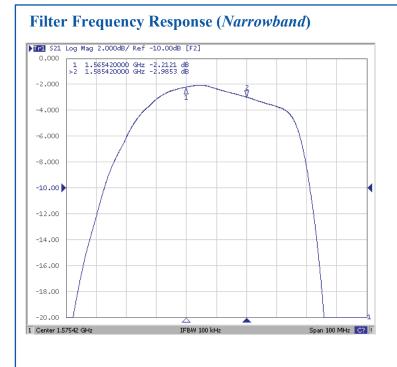




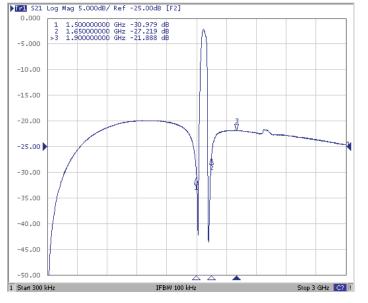
OUTLINE DIMENSIONS:



FREQUENCY CHARACTERISTICS:



Filter Frequency Response (Wideband)



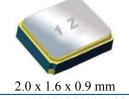




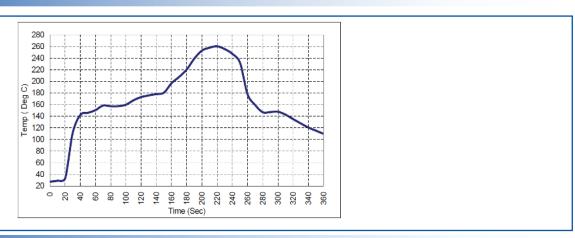
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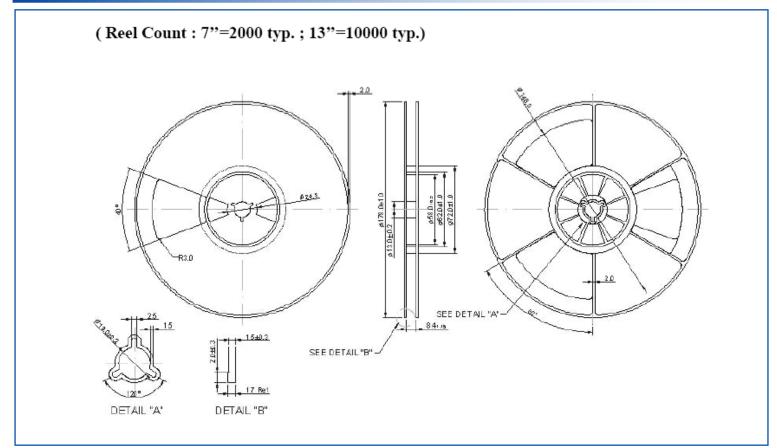




REFLOW PROFILE:



PACKAGING: 2000 Units/Reel



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