imall

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!



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Tel: +86-755-8981 8866 Fax: +86-755-8427 6832 Email & Skype: info@chipsmall.com Web: www.chipsmall.com Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T3

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 0.9 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

ELECTRICAL SPECIFICATIONS:

Maximum Ratings

APPL	ICATIONS	S:

 \geq

•Wireless Communication

Pb

RoHS

Compliant

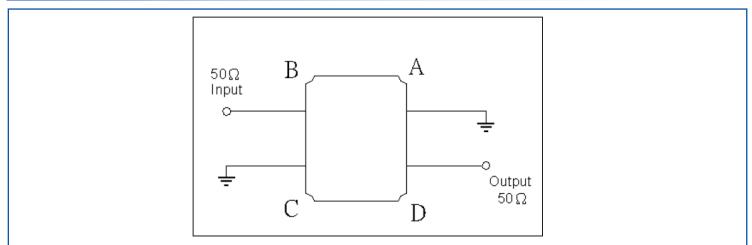
- Remote Control
- Cellular Phones

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
Effective 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
	15	19			$300 \sim 1500 MHz$
Stop-band Attenuation (Referenced to 0.0 dB)	15	21		dB	1650MHz ~ 1900MHz
(Referenced to 0.0 dB)	15	21			1900MHz ~ 3000MHz
Source Impedance (Z _S)		50		Ω	See note # 1
Load Impedance (Z _L)		50		Ω	See note # 1

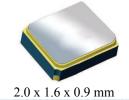
Note #1: No matching network required for operation into 50Ω 's

TEST CIRCUIT:



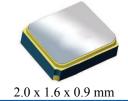






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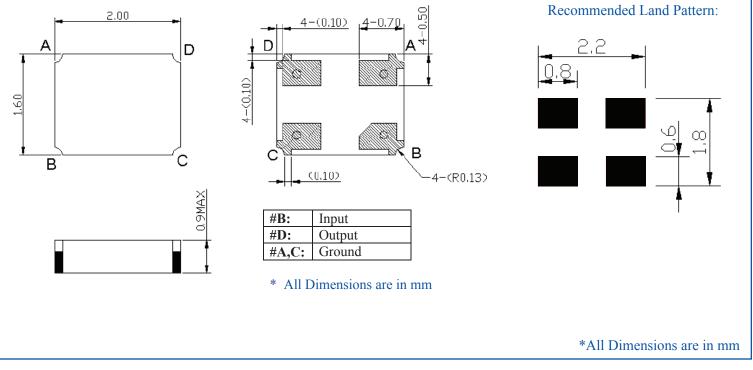


RoHS

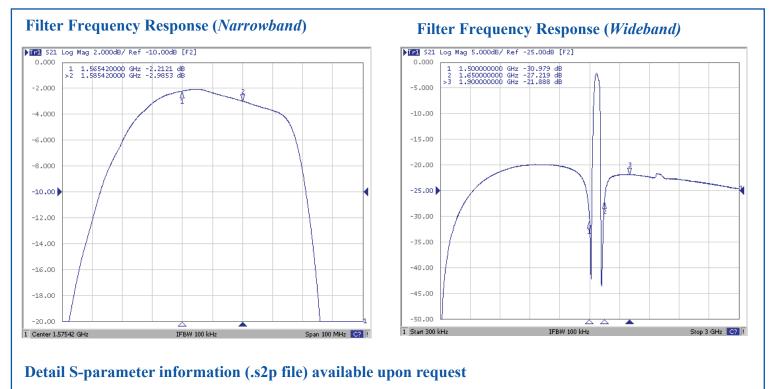
Compliant

Pb





FREQUENCY CHARACTERISTICS:



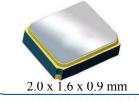
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Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T3

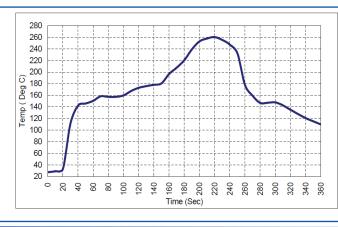


RoHS

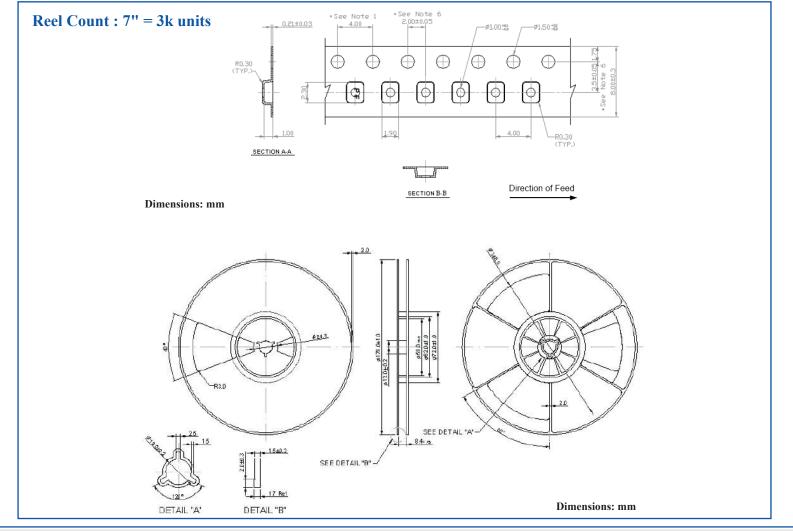
Compliant

Pb

REFLOW PROFILE:



PACKAGING: 3000 Units/Reel "-T2" parts (2k/reel) are no longer available effective 01/01/2013



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