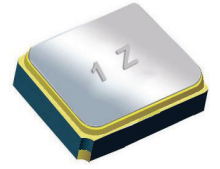


Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T2



RoHS
Compliant



2.0 x 1.6 x 0.9 mm

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:

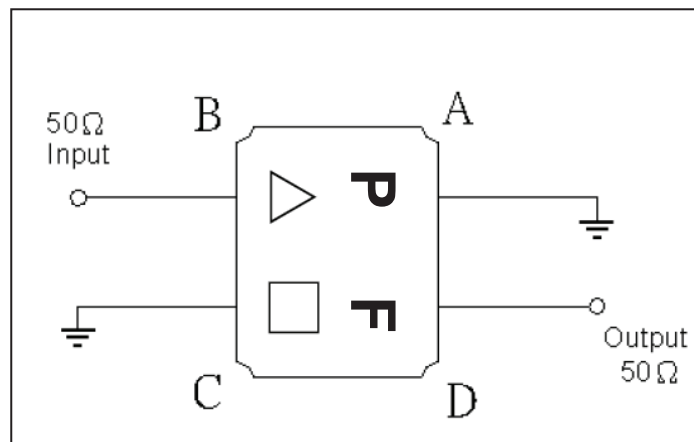
Maximum Ratings

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		dB	300 ~ 1500MHz
	15	21			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 50 Ω 's

TEST CIRCUIT:

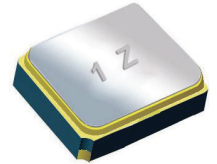


Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T2

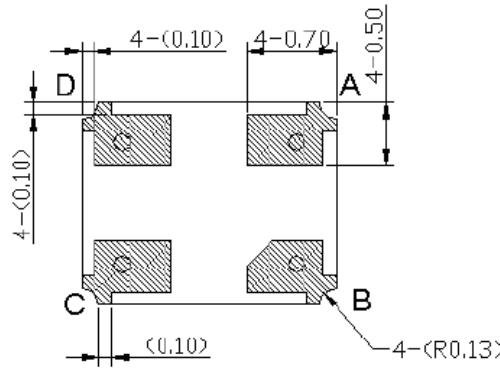
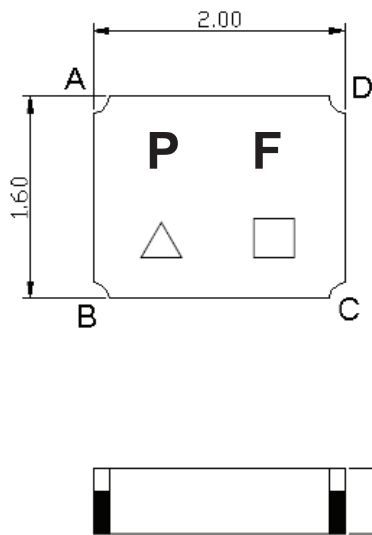


RoHS
Compliant



2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:



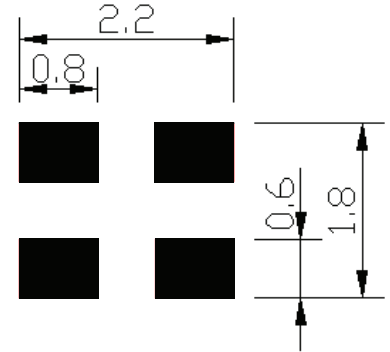
#B:	Input
#D:	Output
#A,C:	Ground

* All Dimensions are in mm

△ : Year Code (2011 = 1, 2012 = 2,etc)

□ : Date Code (Follow the table from planner each year)

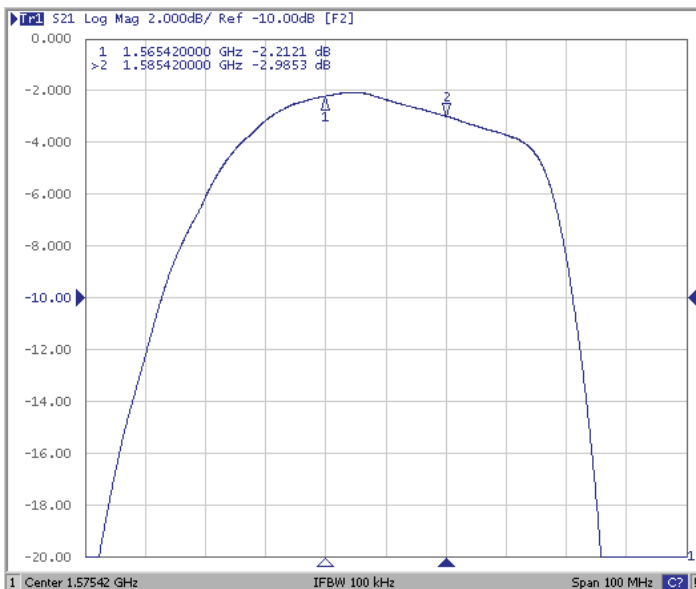
Recommended Land Pattern:



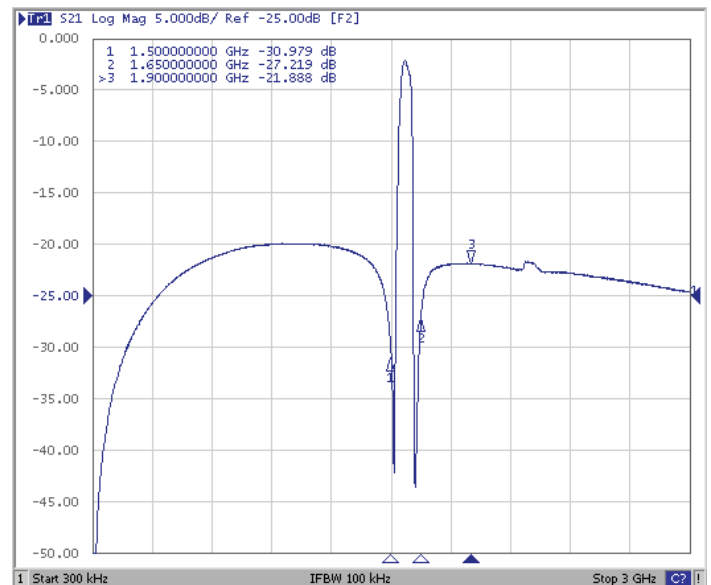
*All Dimensions are in mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)

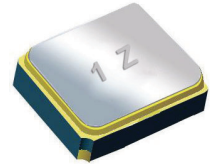


Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T2

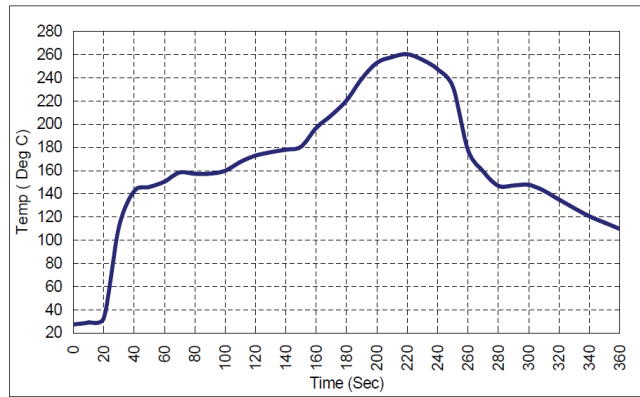


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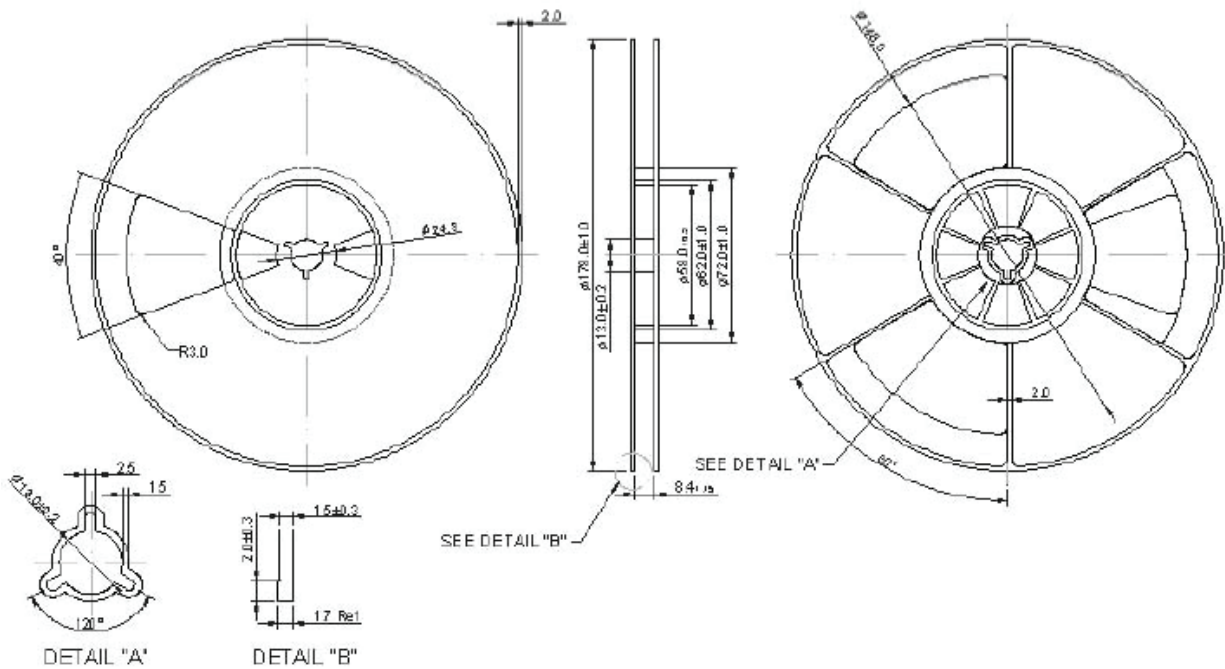
2.0 x 1.6 x 0.9 mm

REFLOW PROFILE:



PACKAGING: 2000 Units/Reel

(Reel Count : 7"=2000 typ. ; 13"=10000 typ.)



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