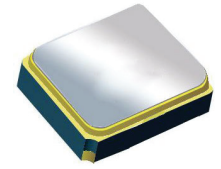


Surface Mount 1575.42MHz SAW Filter



2.0 x 1.6 x 0.9 mm

AFS20A53-1575.42-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable



**RoHS
Compliant**

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:

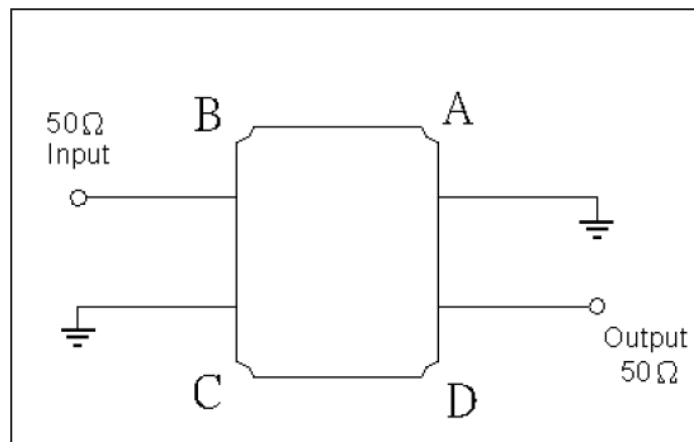
Maximum Ratings

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
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
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

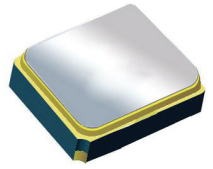
Note #1: No matching network required for operation into 50 Ω 's

TEST CIRCUIT:



Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T3



2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:

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

* All Dimensions are in mm

Recommended Land Pattern:

*All Dimensions are in mm

FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

1 1.565420000 GHz -2.2121 dB
 >2 1.585420000 GHz -2.9853 dB

Center 1.57542 GHz IFBW 100 kHz Span 100 MHz

Filter Frequency Response (Wideband)

1 1.500000000 GHz -30.979 dB
 2 1.650000000 GHz -27.219 dB
 >3 1.900000000 GHz -21.888 dB

Start 300 kHz IFBW 100 kHz Stop 3 GHz

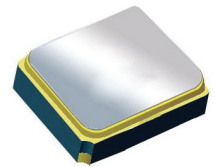
Detail S-parameter information (.s2p file) available upon request

Surface Mount 1575.42MHz SAW Filter

AFS20A53-1575.42-T3

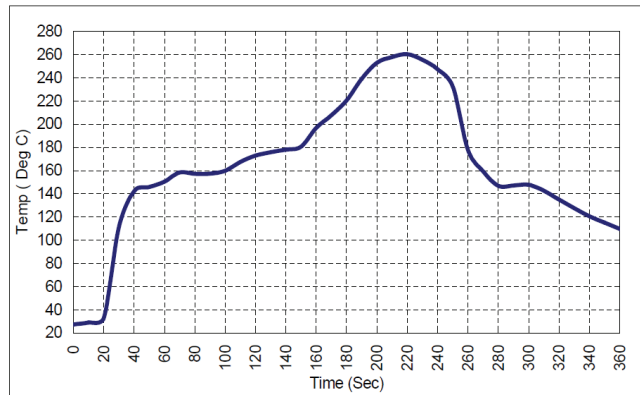


RoHS
Compliant



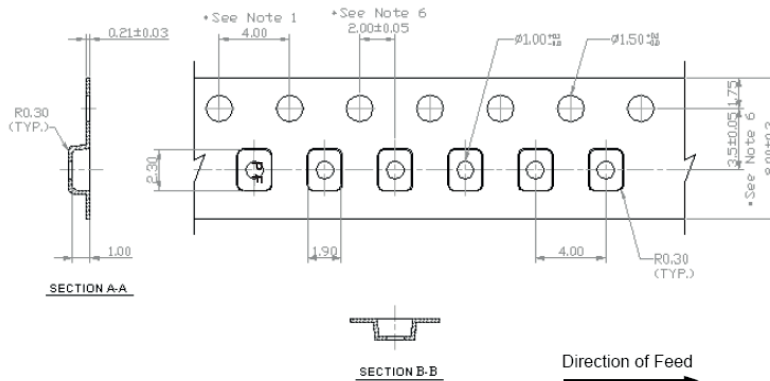
2.0 x 1.6 x 0.9 mm

REFLOW PROFILE:

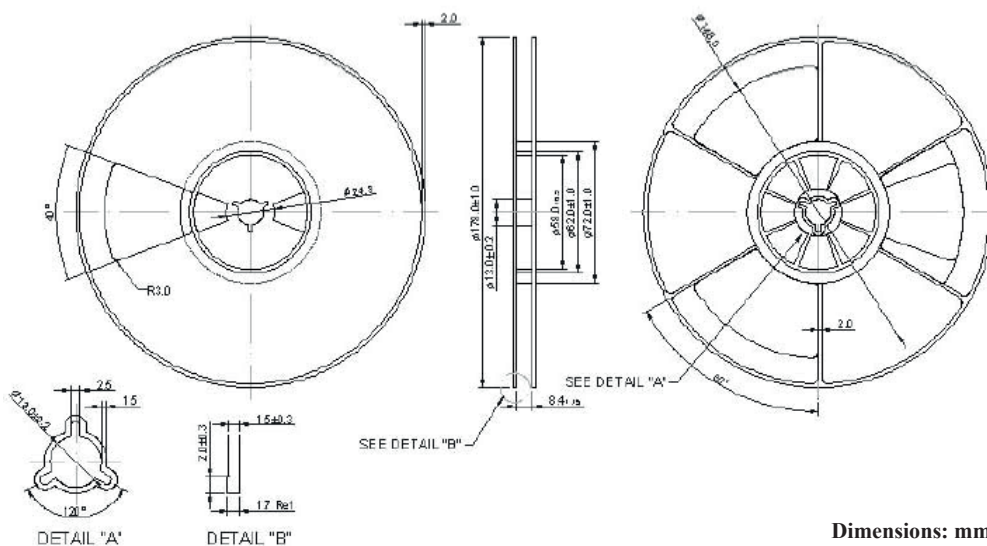


PACKAGING: 3000 Units/Reel “-T2” parts (2k/reel) are no longer available effective 01/01/2013

Reel Count : 7" = 3k units



Dimensions: mm



Dimensions: mm

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