

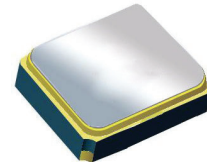
Surface Mount 2017.50MHz SAW Filter

AFS14A15-2017.50-T3

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



RoHS
Compliant



1.4 x 1.1 x 0.7 mm

FEATURES:

- 1.4 x 1.1 x 0.7 mm low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

APPLICATIONS:

- Wireless Communication
- Remote Control
- Cellular Phones

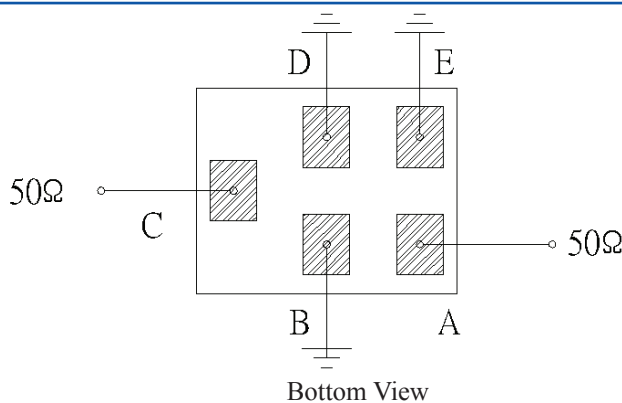
ELECTRICAL SPECIFICATIONS:

Maximum Ratings

Item	Value
Input Power Level	+13 dBm max.
DC Permissive Voltage	3.0V 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)		2017.50		MHz	
Insertion Loss (IL)		2.0	2.8	dB	(2010.00~2025.00MHz)
Effective Bandwidth		15		MHz	
Amplitude Ripple		0.25	1.00	dB	(2010.00~2025.00MHz)
Worst-Case Input / Output Return Loss		20.8	10.88	dB	(2010.00~2025.00MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	41	45		dB	DC~1850 MHz
	34	36			1850~1950 MHz
	15	19			1950~1980 MHz
	6	13			2050~2075 MHz
	23	37			2075~2110 MHz
	37	40			2110~3500 MHz
	34	40			3500~4060 MHz
	29	37			4060~5000 MHz
	25	35			5000~5500 MHz
	23	33			5500~6000 MHz
Terminating Source Impedance (Z_S)		50		Ω	
Temperature Coefficient of Frequency		-36		ppm/°C	

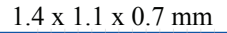
TEST CIRCUIT:



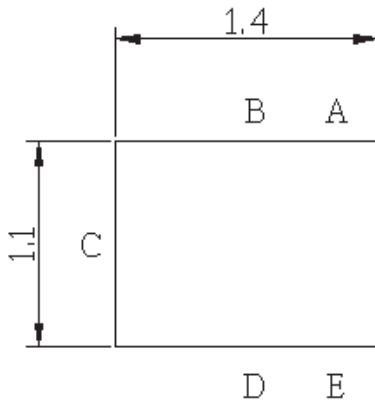
Bottom View



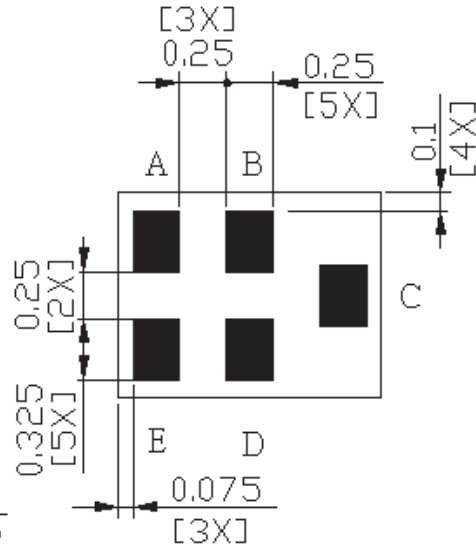
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top view



side view



bottom view

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

*All Dimensions are in mm

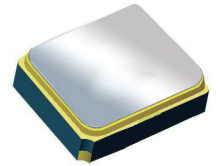
 : Land Pattern
 Unit : mm

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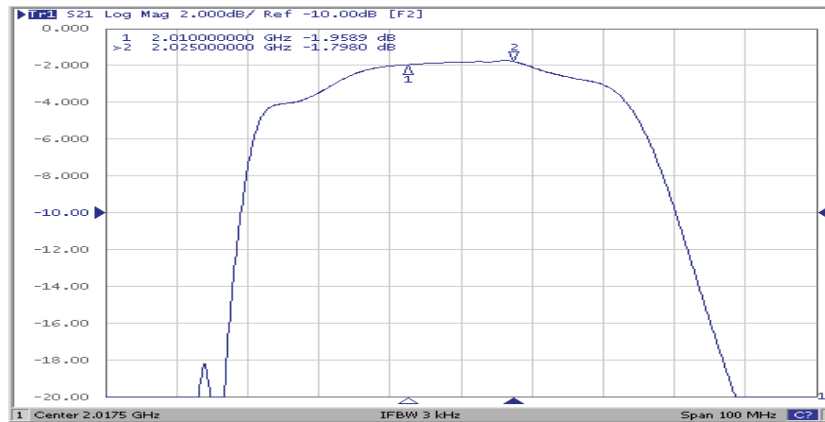
RoHS
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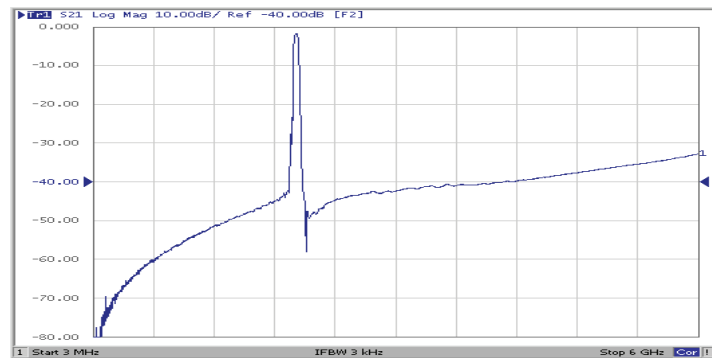
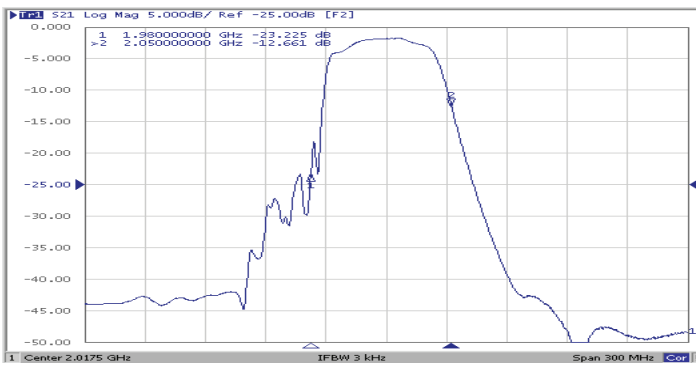
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)

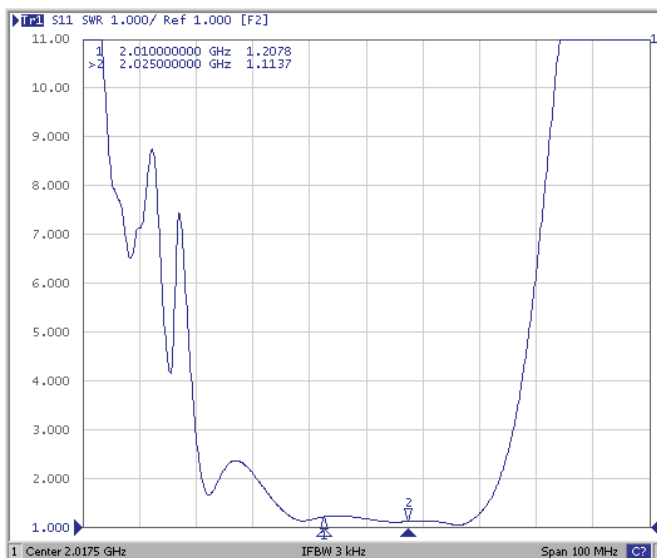


Filter Frequency Response (Wideband)

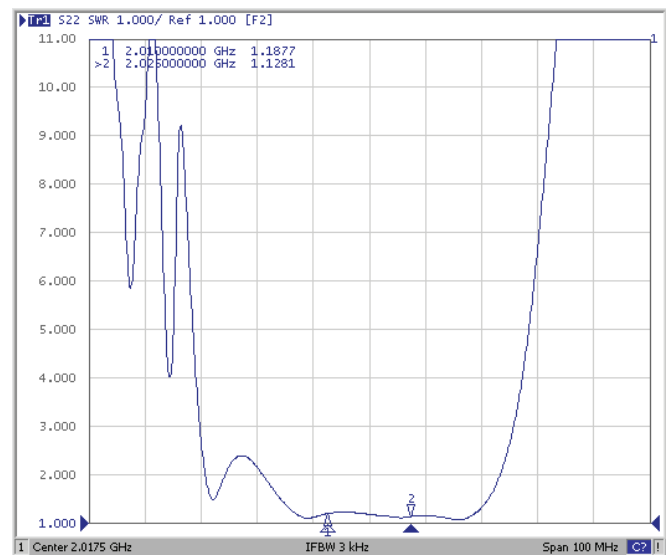


REFLECTION FUNCTIONS:

S11



S22

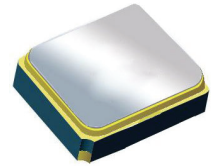


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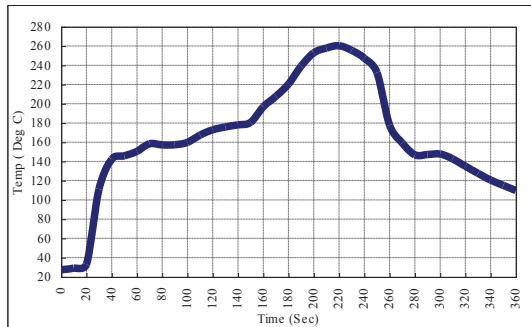


RoHS
Compliant



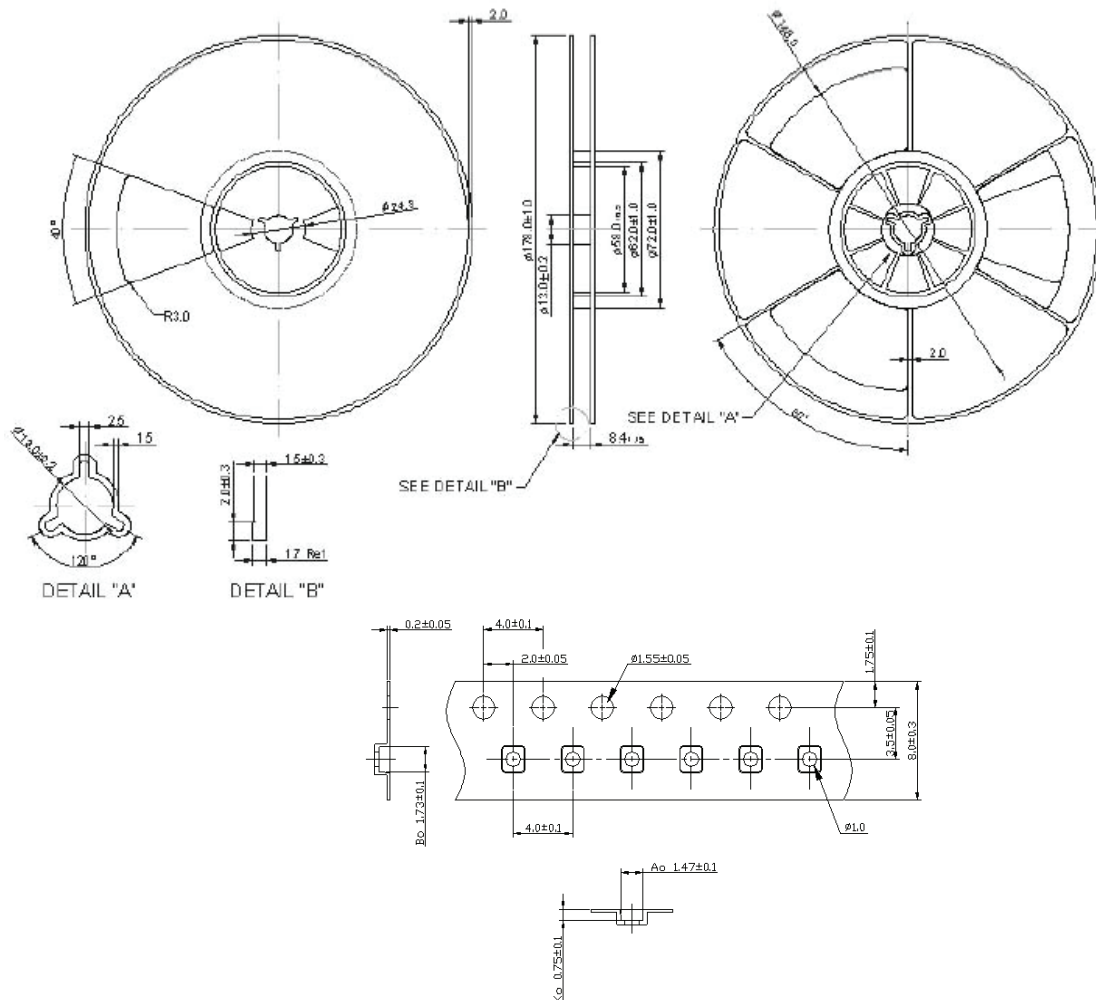
1.4 x 1.1 x 0.7 mm

REFLOW PROFILE:



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

Reel Count : 7" = 3k units



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