

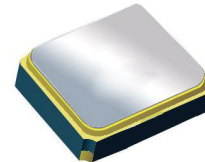
Surface Mount 1575.42MHz SAW Filter

AFS20A02-1575.42-T3

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



RoHS
Compliant



2.0 x 1.6 x 0.9 mm

FEATURES:

- 2.0 * 1.6 * 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:

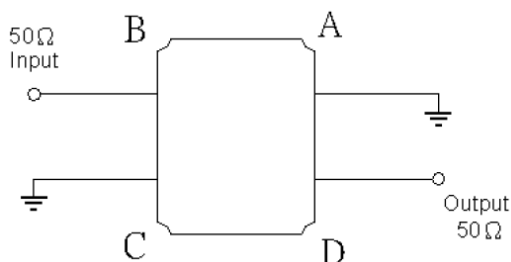
Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3V DC max.
Operating Temperature Range	-40°C to + 85°C
Storage Temperature Range	-55°C to + 95°C

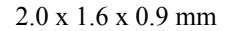
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		1575.42		MHz	
Insertion Loss (IL)		1.15	1.60	dB	1574.42 ~ 1576.42MHz
Effective Bandwidth		2		MHz	
Amplitude Ripple		0.1	0.5	dB	1574.42 ~ 1576.42MHz
Worst-Case Input / Output Return Loss		20	10	dB	1574.42 ~ 1576.42MHz
Stop-band Attenuation (Referenced to 0.0 dB)	31	33		dB	100MHz ~ 960MHz
	31	33			960MHz ~ 1460MHz
	22	26			1460MHz ~ 1513MHz
	22	28			1648MHz ~ 1710MHz
	25	32			1710MHz ~ 1990MHz
	25	30			1990MHz ~ 2300MHz
	29	31			2300MHz ~ 4000MHz
	20	24			4000MHz ~ 6000MHz
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:



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Technical drawing of a rectangular plate. The overall width is 2.2 and the overall height is 1.8. A hole with a diameter of 0.8 is located in the upper left corner. The hole is positioned 0.8 units from the left edge and 0.6 units from the top edge. The drawing shows the front view of the plate with the hole.

*All Dimensions are in mm

Log Mag 5.000dB/ Ref -20.00dB [F2]

Point	Frequency	Power
1	960.000000 MHz	-32.699 dB
2	4.000000000 GHz	-30.705 dB

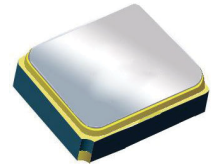
1 Start 300 kHz IFBW 3 kHz Stop 6 GHz Cor

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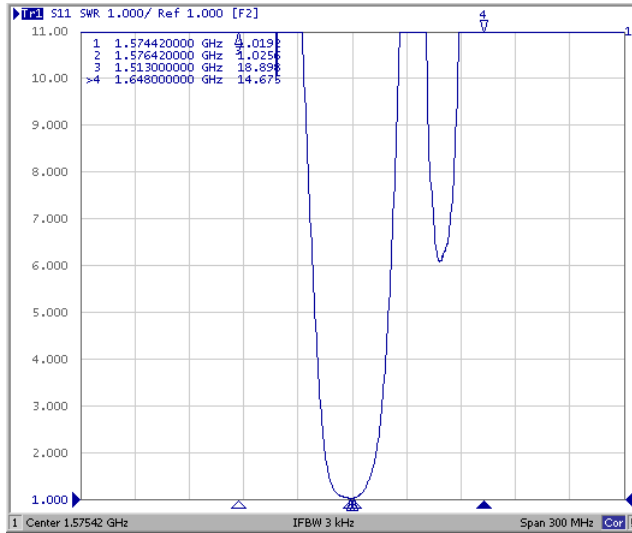
RoHS
Compliant



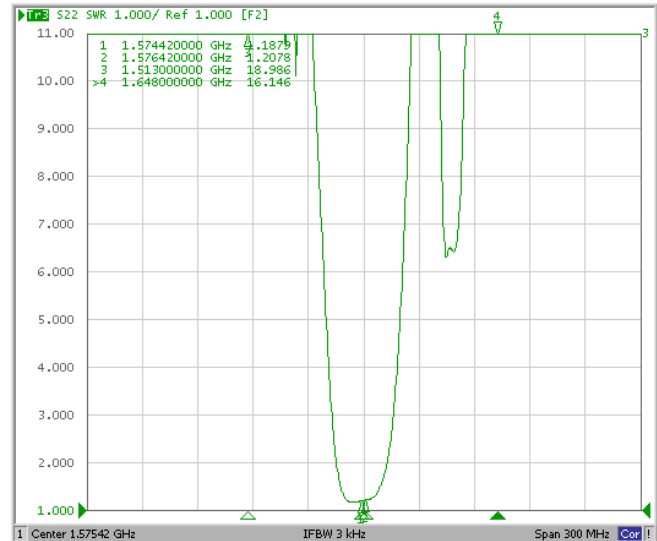
2.0 x 1.6 x 0.9 mm

REFLECTION FUNCTIONS:

S11

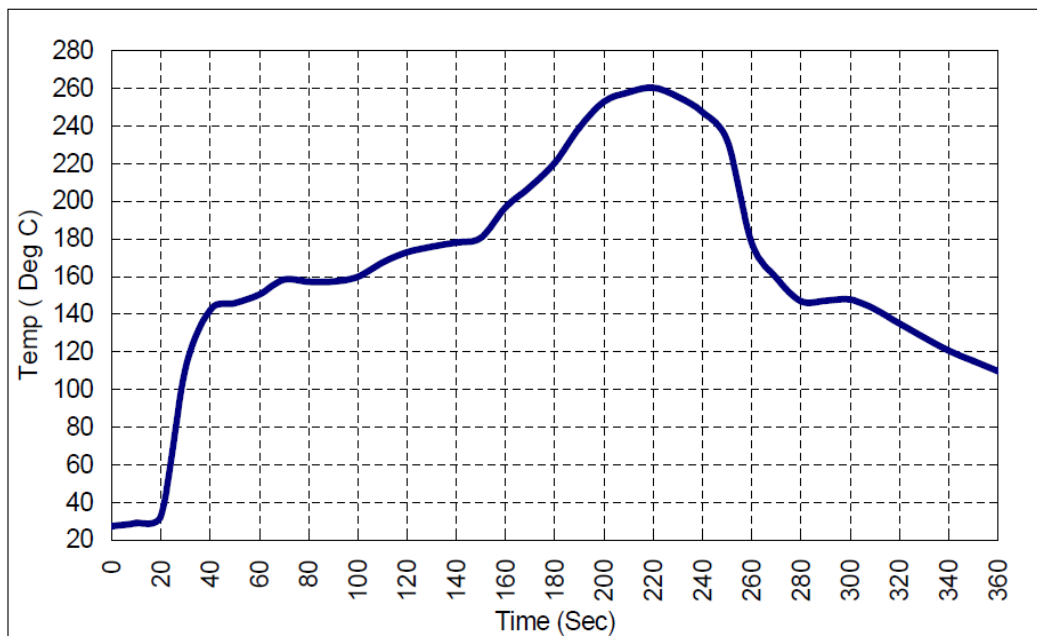


S22



Note # 2: Detail S-parameter information (.s2p file) available upon request

REFLOW PROFILE:

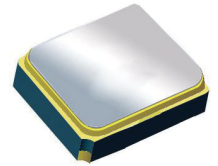


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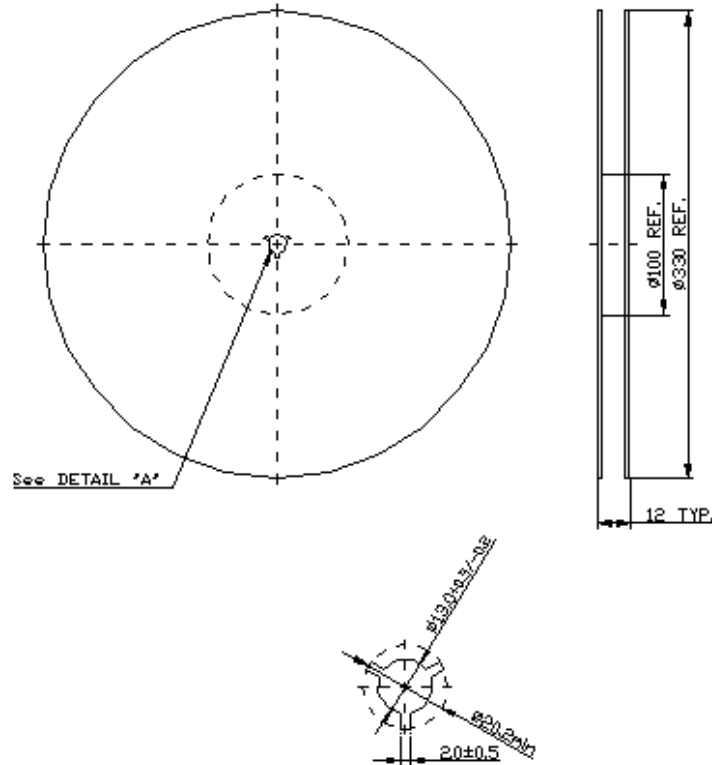
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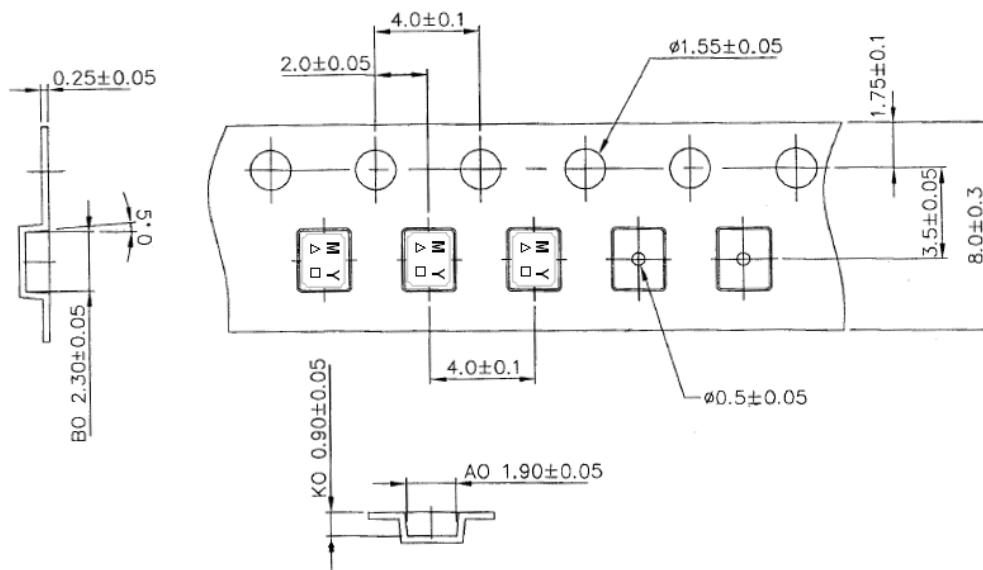
2.0 x 1.6 x 0.9 mm

PACKAGING: 3,000 units/reel “-T2” parts (2k/reel) are no longer available effective 01/01/2013

Reel Dimensions



Tape Dimensions



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