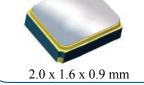
# AFS20A42-1575.42-T3

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





#### > APPLICATIONS:

- •Wireless Communication
- Remote Control
- Cellular Phones

## **ELECTRICAL SPECIFICATIONS:**

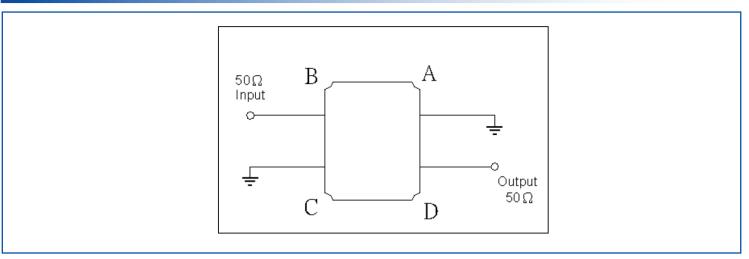
#### **Maximum Ratings**

Item	Value			
Input Power Level	+10 dBm max.			
DC Permissive Voltage	7.5V DC max.			
Operating Temperature Range	-40°C to +85°C			
Storage Temperature Range	-40°C to + 95°C			

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f <sub>c</sub> )		1575.42		MHz	
Insertion Loss (IL)		1.20	1.60	dB	1574.42 ~ 1576.42MHz
Effective Bandwidth		42		MHz	
Amplitude Ripple		0.1	0.8	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)	20	34			DC ~ 1000MHz
	30	39		dB	1625MHz ~ 1635MHz
	25	32			1800MHz ~ 3000MHz
Source Impedance (Z <sub>S</sub> )		50		Ω	See note # 1
Load Impedance (Z <sub>L</sub> )		50		Ω	See note # 1

*Note #1:* No matching network required for operation into  $50\Omega$ 's

#### > TEST CIRCUIT:

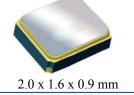




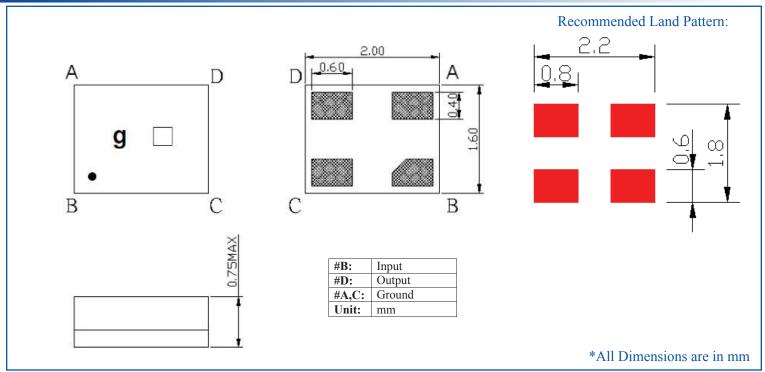


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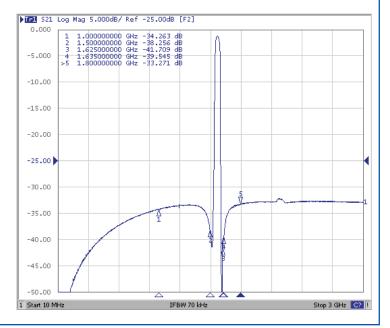
#### **OUTLINE DIMENSIONS:**



## **FREQUENCY CHARACTERISTICS:**

# 

## Filter Frequency Response (Wideband)

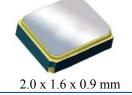




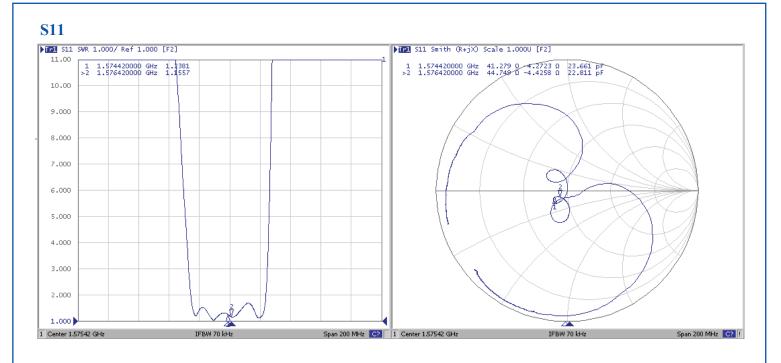


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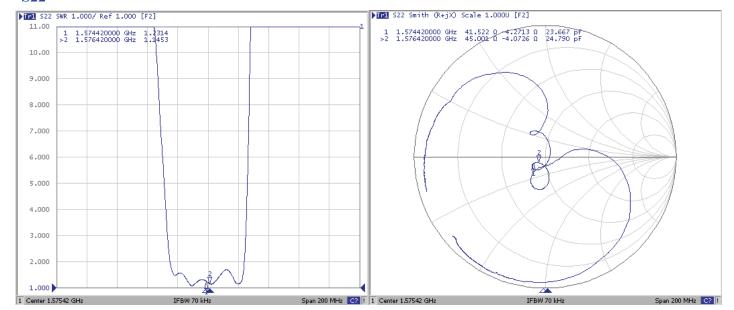




## **REFLECTION FUNCTIONS**



#### **S22**



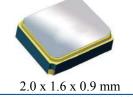
Note # 2: Detail S parameter information (.s2p file) available upon request



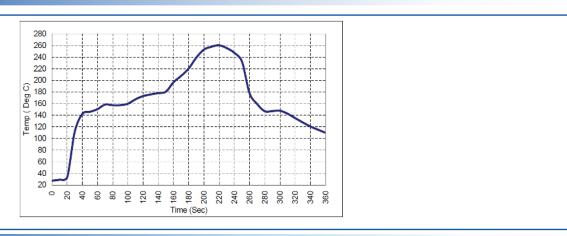


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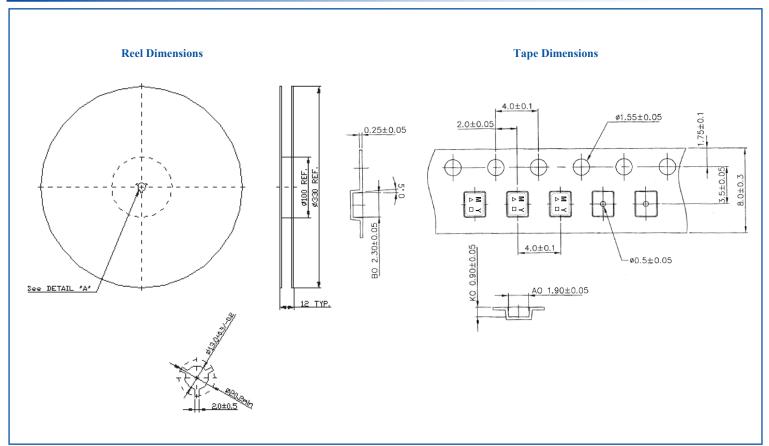




## **REFLOW PROFILE:**



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



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