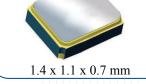
### AFS14A04-1575.42-T3

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



- 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:**

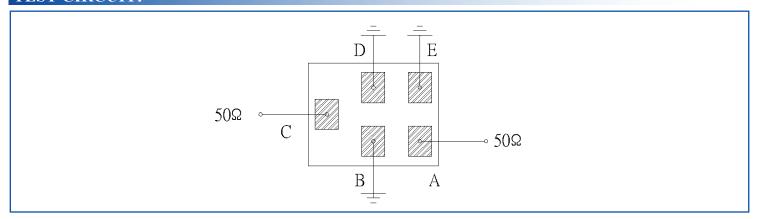
#### **Maximum Ratings**

Item	Value			
Input Power Level	+15 dBm max.			
DC Permissive Voltage	3.0V DC max.			
Operating Temperature Range	-40°C to +85°C			
Storage Temperature Range	-40°C to +85°C			

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f <sub>c</sub> )		1575.42		MHz	
Insertion Loss (IL)		0.90	1.50	dB	(1574.42~1576.42 MHz)
Effective Bandwidth		40		MHz	
Amplitude Ripple		0.1	0.75	dB	(1574.42~1576.42 MHz)
Worst-Case Input / Output Return Loss		23	12.7	dB	(1574.42~1576.42 MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	35	38			D.C~1450 MHz
	30	45		dB	1450~1520 MHz
	45	48			1625~1640 MHz
	38	40			1640~1805 MHz
	38	40			1805~1910 MHz
	38	43			1910~2000 MHz
	30	45			2000~4000 MHz
	20	22			4000~6000 MHz
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:

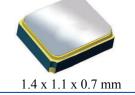




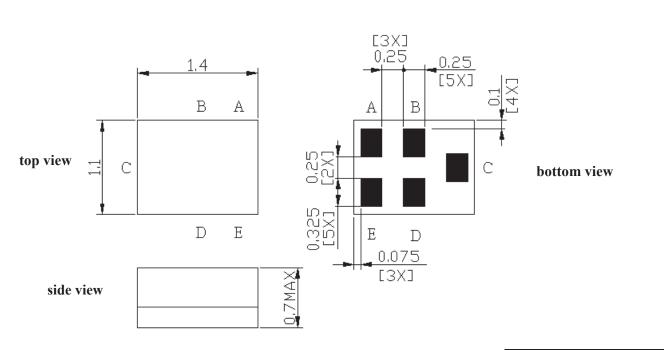


AFS14A04-1575.42-T3



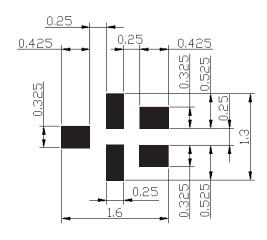


### **OUTLINE DIMENSIONS:**



<b>C</b> :	Input
A:	Output
B, D, E:	Ground

### Recommended Land Pattern:



: Land Pattern Unit : mm

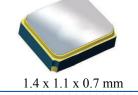
\*All Dimensions are in mm





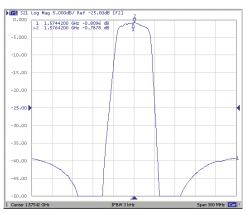
AFS14A04-1575.42-T3





### > FREQUENCY CHARACTERISTICS:

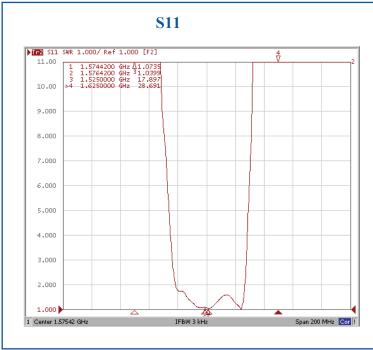
### Filter Frequency Response (Narrowband)

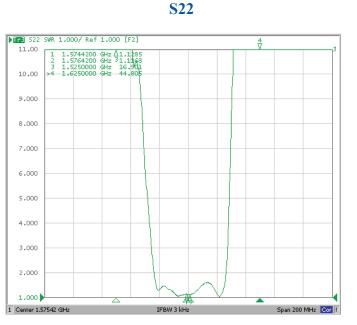


#### Filter Frequency Response (Wideband)



### **REFLECTION FUNCTIONS:**



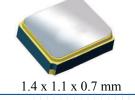




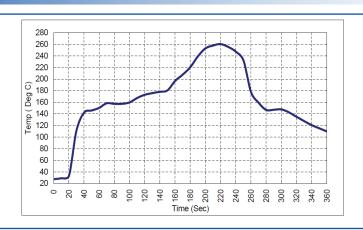


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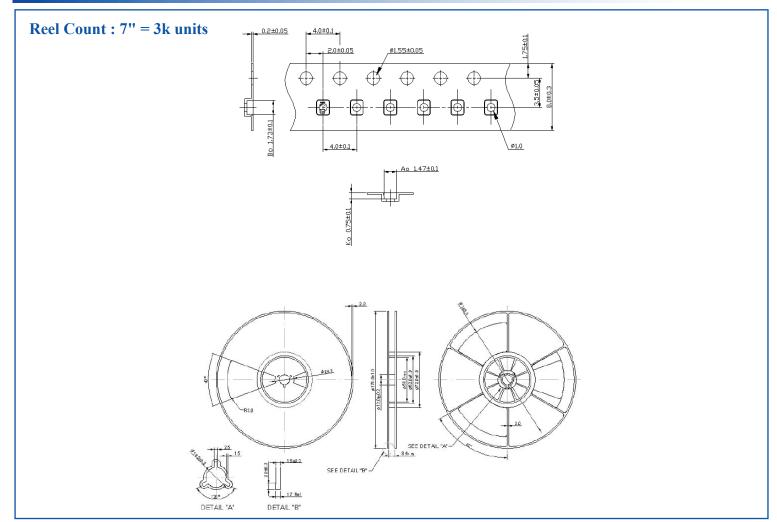




### **REFLOW PROFILE:**



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



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