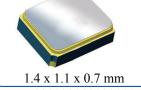
## AFS14A72-2436.00-T3

Moisture Sensitivity Level (MSL) = 3





#### **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

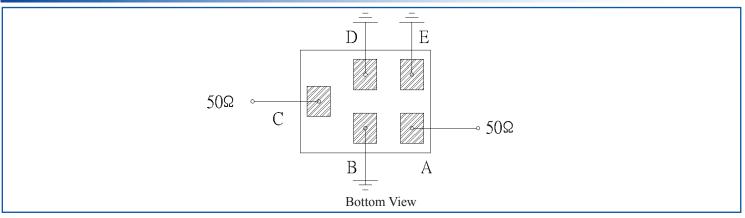
## **ELECTRICAL SPECIFICATIONS:**

#### **Maximum Ratings**

Item	Value		
Input Power Level	+10 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 <sub>c</sub> )		2436.00		MHz	
Insertion Loss (IL)		3.5	4.4	dB	(2400.00~2472.00MHz)
Effective Bandwidth		72		MHz	
Amplitude Ripple		2.0	3.3	dB	(2400.00~2472.00MHz)
Worst-Case Input / Output Return Loss		9.54	7.35	dB	
Stop-band Attenuation (Referenced to 0.0 dB)	25	35			DC~960 MHz
	25	33			960~1580 MHz
	25	34		dB	1710~1990 MHz
	28	37			2110~2170 MHz
	30	40			2496~2690MHz @ 25°C
	10	20			2496~2690MHz over the operating temperature
	25	44			2690~4800MHz
	20	36			4800~5000MHz
	15	31			5000~6000MHz
Terminating Source Impedance (Z <sub>S</sub> )		50		Ω	
Temperature Coefficient of Frequency		-36		ppm/°C	

### **TEST CIRCUIT:**

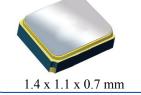




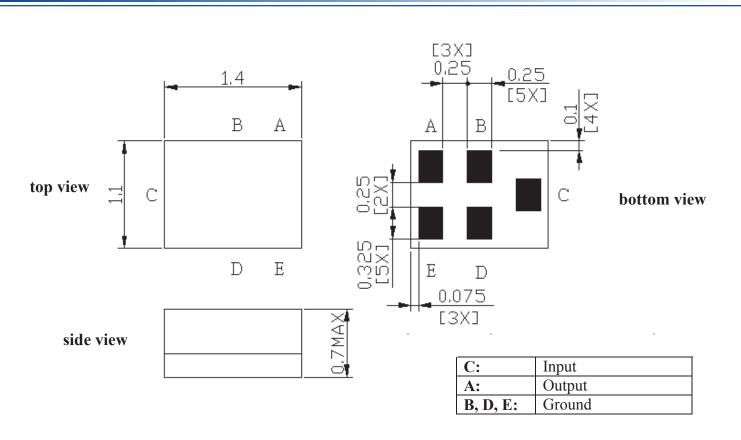


AFS14A72-2436.00-T3



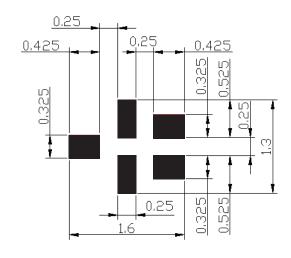


### **OUTLINE DIMENSIONS:**



\*All Dimensions are in mm

## Recommended Land Pattern:



: Land Pattern

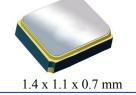
Unit: mm





AFS14A72-2436.00-T3



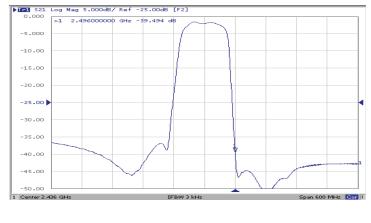


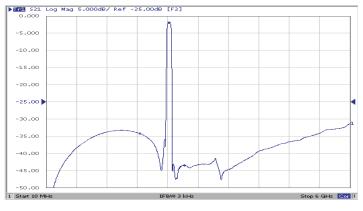
## FREQUENCY CHARACTERISTICS:

## Filter Frequency Response (Narrowband)



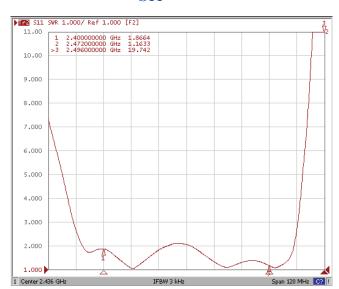
### Filter Frequency Response (Wideband)

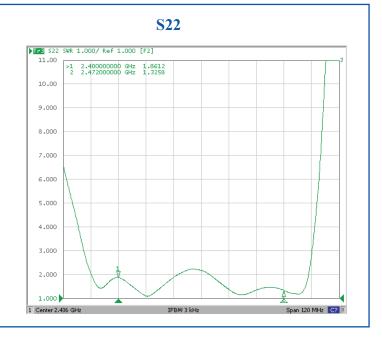




## **REFLECTION FUNCTIONS:**





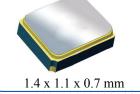


ABRACON IS ISO 9001:2008 CERTIFIED

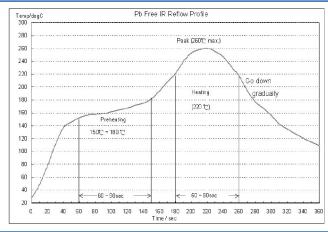


AFS14A72-2436.00-T3



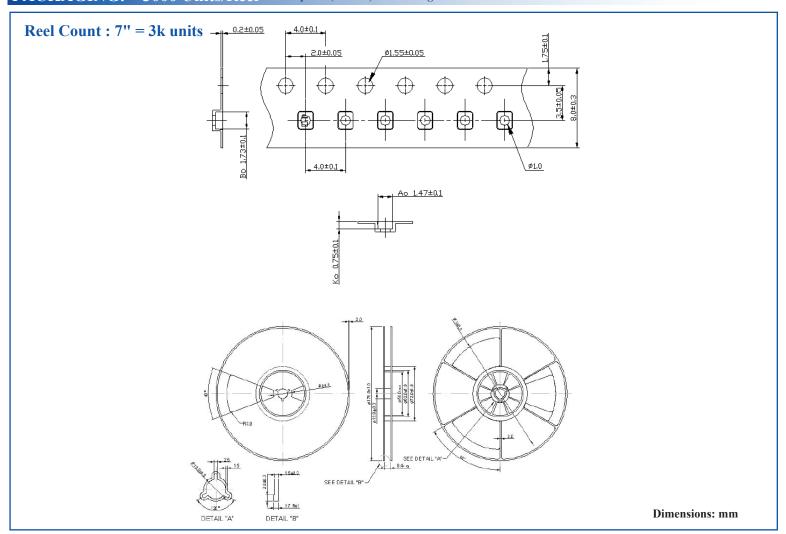


#### REFLOW PROFILE:



- Preheating shall be fixed at 150~180°C for 60~90 seconds.
- Ascending time to preheating temperature 150°C shall be 30 seconds min.
- Heating shall be fixed at 220°C for 50~80 seconds and at 250±10°C peak (max. 10sec). Time: 2 times

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



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