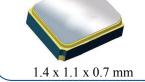
AFS14A72-2436.00-T3

 $\label{eq:model} \begin{tabular}{ll} Moisture Sensitivity Level (MSL) - This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable \\ \end{tabular}$

> 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

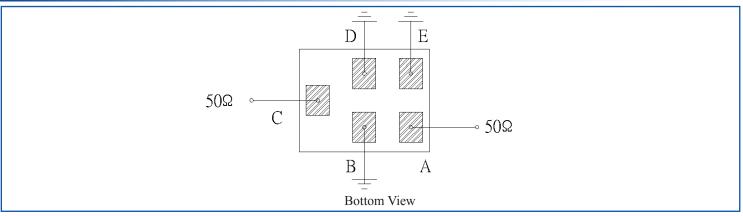
ELECTRICAL SPECIFICATIONS:

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 _c)		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		dB	DC~960 MHz
	25	33			960~1580 MHz
	25	34			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 _S)		50		Ω	
Temperature Coefficient of Frequency		-36		ppm/°C	

TEST CIRCUIT:

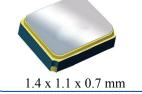




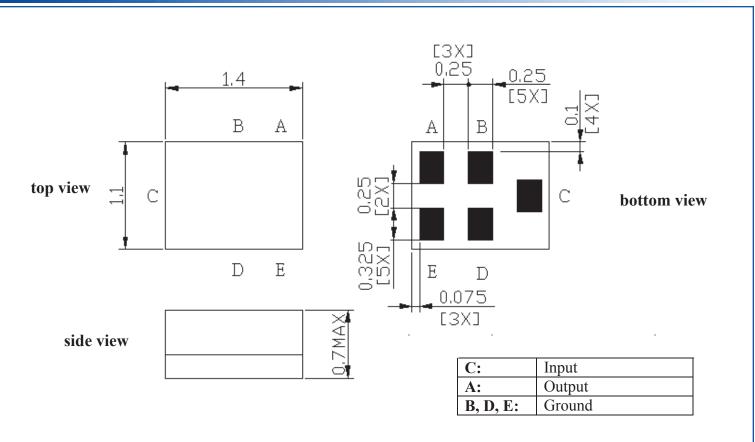


AFS14A72-2436.00-T3



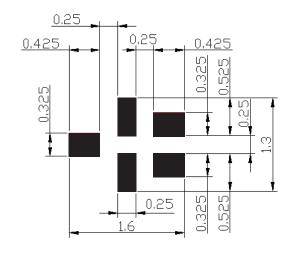


OUTLINE DIMENSIONS:



*All Dimensions are in mm

Recommended Land Pattern:



: Land Pattern

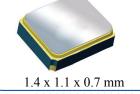
Unit: mm





AFS14A72-2436.00-T3



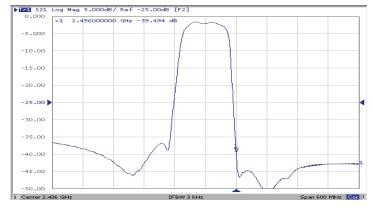


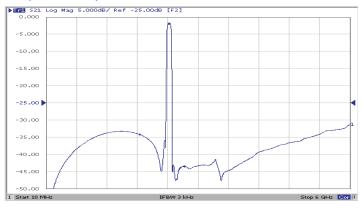
FREQUENCY CHARACTERISTICS:



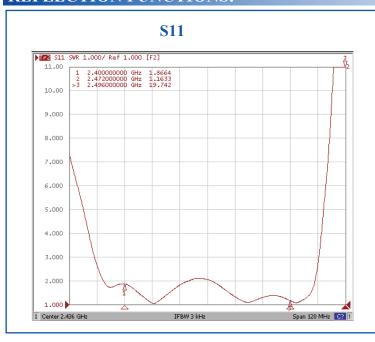


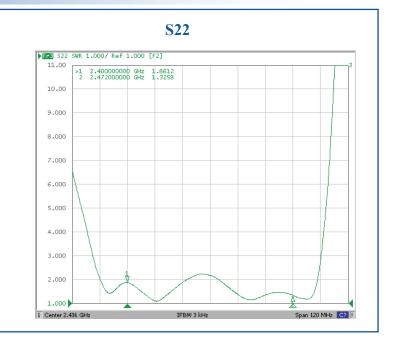
Filter Frequency Response (Wideband)





REFLECTION FUNCTIONS:



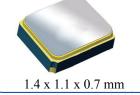




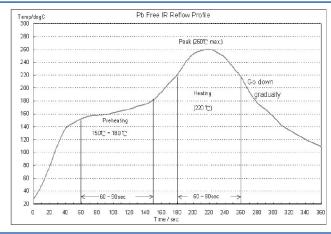


AFS14A72-2436.00-T3



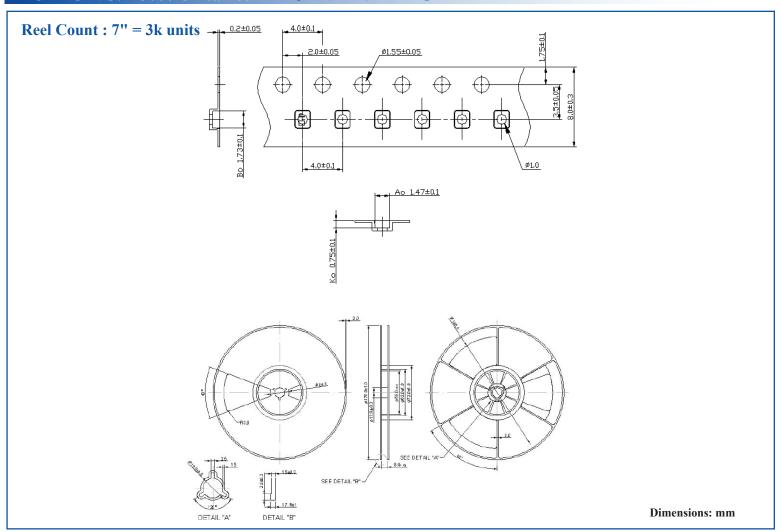


REFLOW PROFILE:



- 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



ATTENTION: Abracon Corporation's products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and, where designated, Automotive Applications. Abracon's products are not specifically designed for Military, Aviation, Aerospace, Life-dependant Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from Abracon Corporation is required. Please contact Abracon Corporation for more information.



