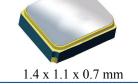
### AFS14A40-1900.00-T3

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

# RoHS Compliant



#### > 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:**

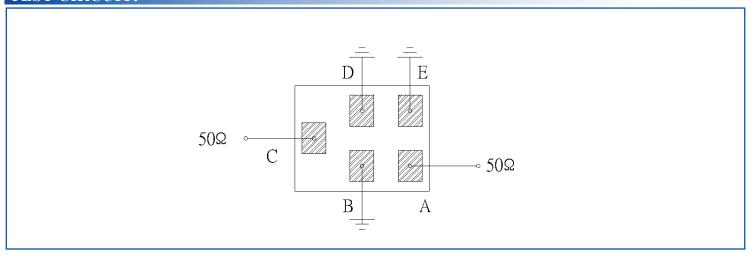
#### **Maximum Ratings**

Item	Value			
Input Power Level	+13 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> )		1900.00		MHz	
Insertion Loss (IL)		2.0	2.7	dB	1880 ~ 1920MHz
Effective Bandwidth		40		MHz	
Amplitude Ripple		0.5	1.2	dB	1880 ~ 1920MHz
Worst-Case Input / Output Return Loss	9.5	11.7		dB	
Stop-band Attenuation (Referenced to 0.0 dB)	40	45		dB	D.C~1395 MHz
	40	48			1395~1435 MHz
	33	36			1435~1805 MHz
	25	33			1805~1840 MHz
	25	27			2000~2135 MHz
	31	34			2135~2175 MHz
	30	36			2175~3500 MHz
	22	29			3500~6000 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:**

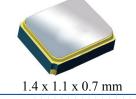




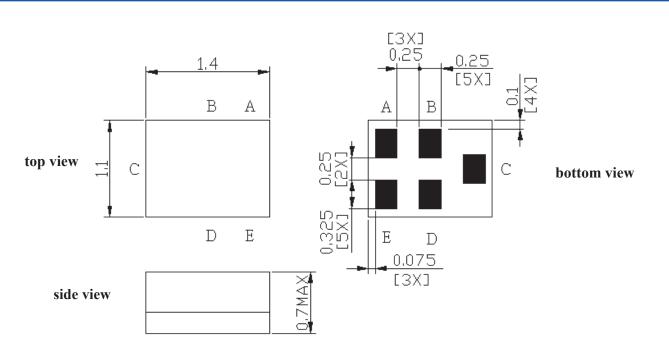


AFS14A40-1900.00-T3



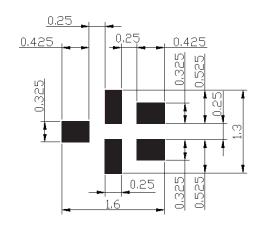


#### **OUTLINE DIMENSIONS:**



C:	Input
A:	Output
B, D, E:	Ground

#### Recommended Land Pattern:



: Land Pattern Unit : mm

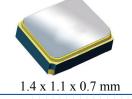
\*All Dimensions are in mm





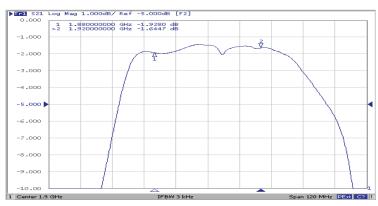
AFS14A40-1900.00-T3



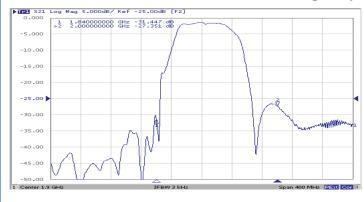


#### > FREQUENCY CHARACTERISTICS:



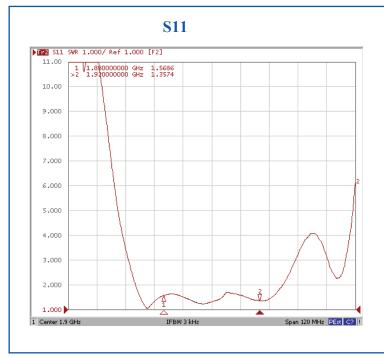


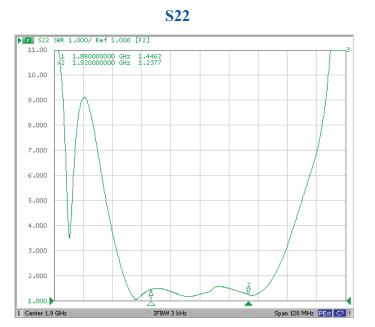
#### Filter Frequency Response (Wideband)





#### **REFLECTION FUNCTIONS:**



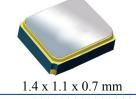




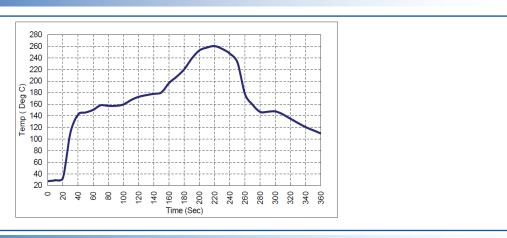


AFS14A40-1900.00-T3

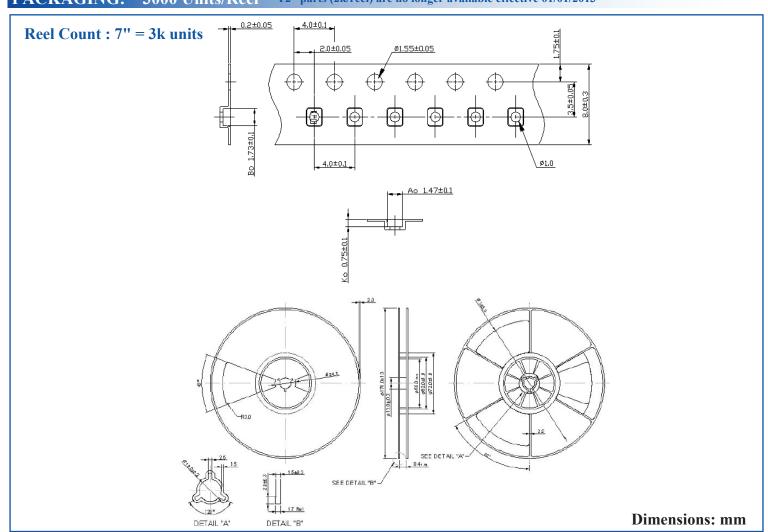




#### **REFLOW PROFILE:**



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



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