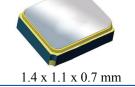
## AFS14A35-1591.5-T3

Moisture Sensitivity Level (MSL) – 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:**

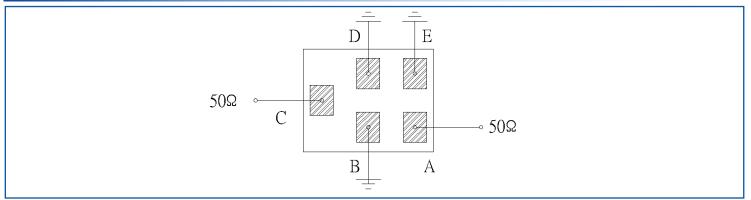
#### **Maximum Ratings**

Item	Value		
Input Power Level	+10 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> )		1591.5		MHz	
Insertion Loss (IL)		2.4	3.7	dB	1574~1609 MHz
Effective Bandwidth		35		MHz	
Amplitude Ripple		1.3	2.6	dB	1574~1609 MHz
Worst-Case Input / Output Return Loss	7.7	9.5		dB	1574~1609 MHz
Group Delay Variation		17	50	ns	1574~1609 MHz
Stop-band Attenuation (Referenced to 0.0 dB)	28	34		dB	$10 \sim 1200 \; MHz$
	28	34			1200~1450 MHz
	20	37			1450~1540 MHz
	9	31			1626~1710 MHz
	30	37			1710~2000 MHz
	30	37			2000~2500 MHz
Temperature Coefficient of frequency		-36		ppm/°C	
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:**

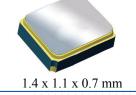




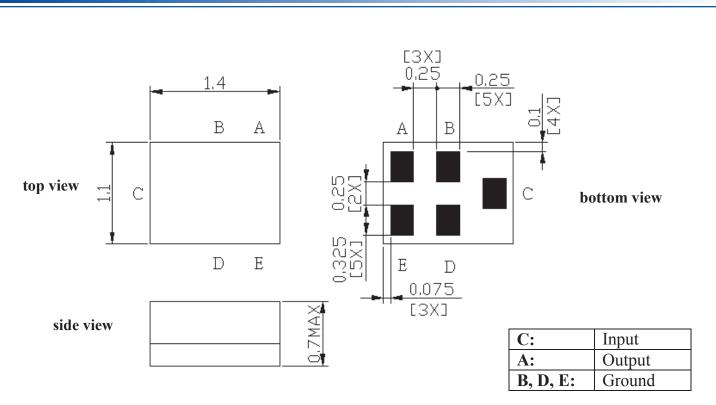


AFS14A35-1591.5-T3

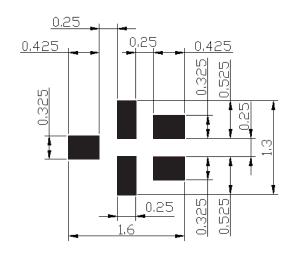




#### **OUTLINE DIMENSIONS:**



#### Recommended Land Pattern:



: Land Pattern Unit : mm

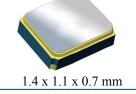
\*All Dimensions are in mm





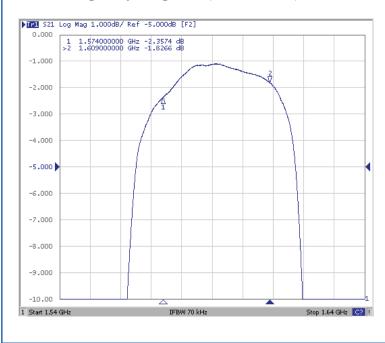
AFS14A35-1591.5-T3



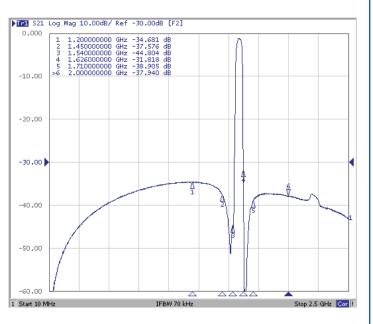


### > FREQUENCY CHARACTERISTICS:

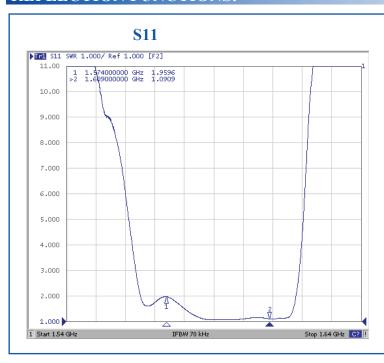
#### Filter Frequency Response (Narrowband)



### Filter Frequency Response (Wideband)



# **REFLECTION FUNCTIONS:**



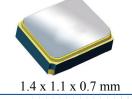




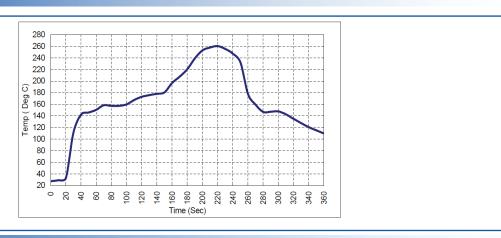


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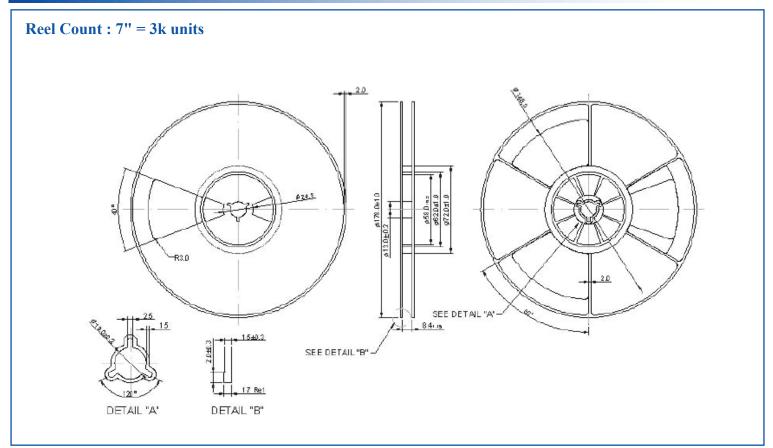




### **REFLOW PROFILE:**



### **PACKAGING:** 3000 Units/Reel



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