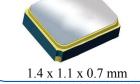
### AFS14A40-1900.00-T3

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

# 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:**

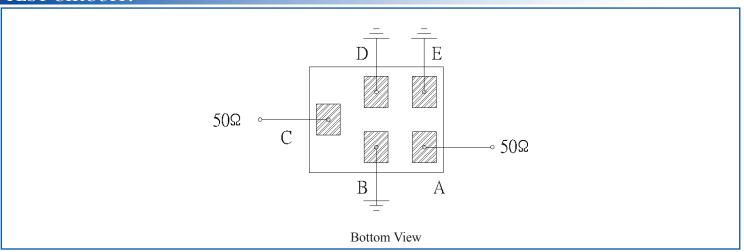
#### **Maximum Ratings**

| 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:**

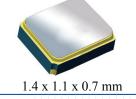




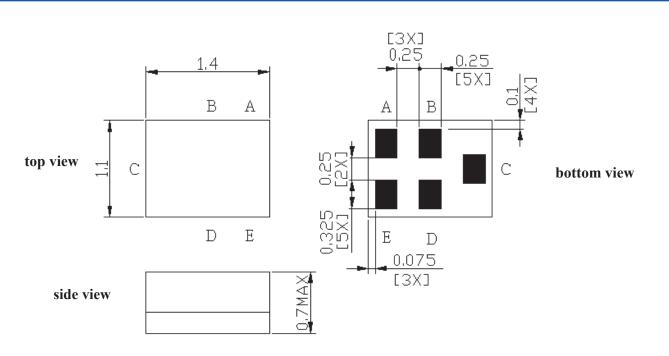


AFS14A40-1900.00-T3



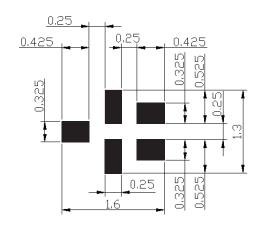


#### **OUTLINE DIMENSIONS:**



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

#### Recommended Land Pattern:



: Land Pattern Unit : mm

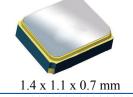
\*All Dimensions are in mm





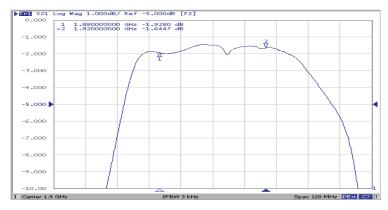
AFS14A40-1900.00-T3



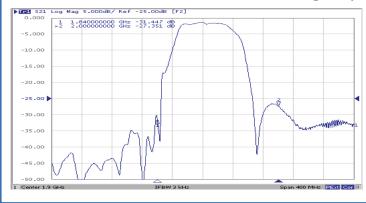


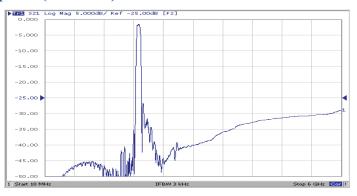
#### ► FREQUENCY CHARACTERISTICS:





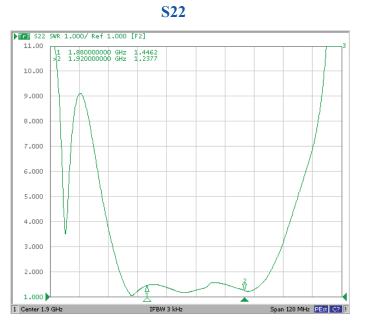
#### Filter Frequency Response (Wideband)





#### **REFLECTION FUNCTIONS:**



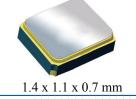




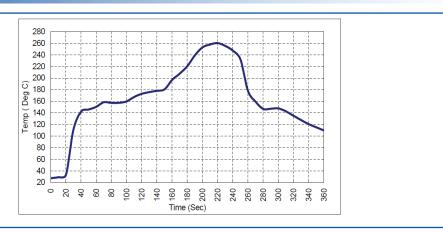


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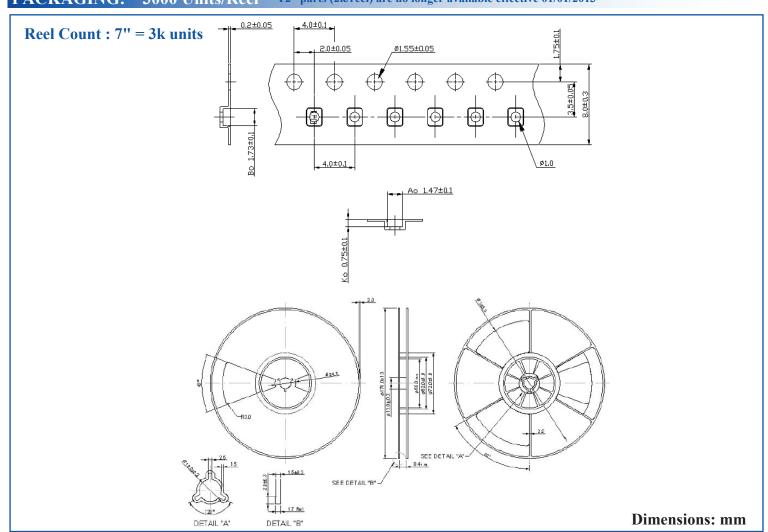




#### **REFLOW PROFILE:**



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



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