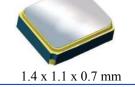
## AFS14A34-1588.66-T3

Moisture Sensitivity Level (MSL) = 3





#### **FEATURES:**

- $1.4 \times 1.1 \times 0.7 \text{ mm}$  low profile SMT package
- Low Insertion loss
- Excellent selectivity with high out-of-band rejection

#### > APPLICATIONS:

- •Wireless Communication
- Remote Control
- Cellular Phones

### **ELECTRICAL SPECIFICATIONS:**

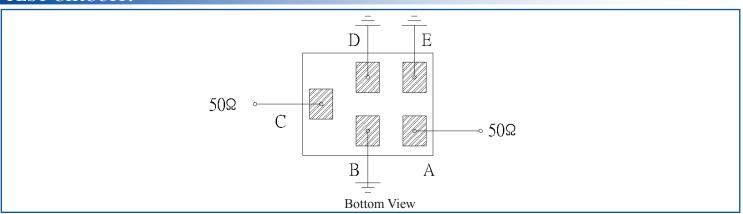
**Maximum Ratings** 

<b>8</b>				
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> )		1588.66		MHz	
Insertion Loss (IL)		1.25	1.70	dB	1573.42~1577.42 MHz
Insertion Loss (IL)		1.7	2.5	dB	1571.42~1605.89 MHz
Effective Bandwidth		34		MHz	
Amplitude Ripple		0.25	0.8	dB	1573.42~1577.42 MHz
Amplitude Ripple		0.7	1.5	dB	1571.42~1605.89 MHz
Worst-Case Input / Output Return Loss	9.54	20.8		dB	1573.42~1577.42 MHz
Worst-Case Input / Output Return Loss	12.7	20.8		dB	1571.42~1605.89 MHz
Stop-band Attenuation (Referenced to 0.0 dB)	32	35			D.C~824 MHz
	32	35			824~849 MHz
	32	34.5			849~880 MHz
	32	34.5			880~915 MHz
	30	34		dB	915~1452 MHz
	32	37			1452~1525 MHz
	32	36			1710~1785 MHz
	32	36			1785~1850 MHz
	25	36			1850~6000 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:**





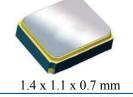
5101 Hidden Creek Ln Spicewood TX 78669 Phone: 512-371-6159 | Fax: 512-351-8858 For terms and conditions of sales, please visit: www.abracon.com

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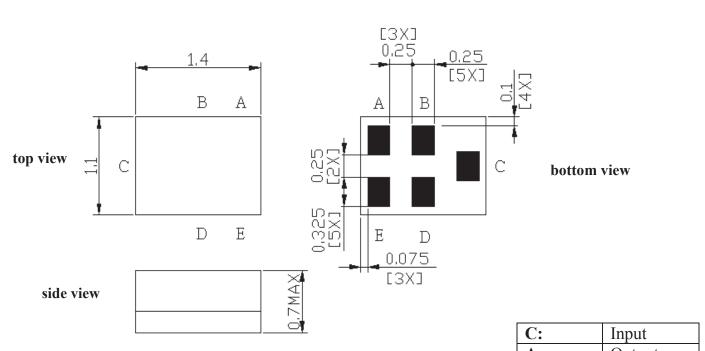
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AFS14A34-1588.66-T3



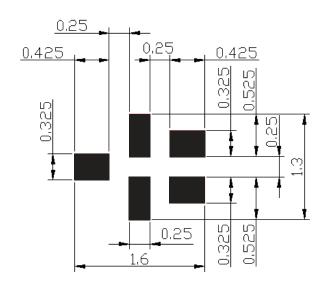


#### **OUTLINE DIMENSIONS:**



<b>C</b> :	Input
A:	Output
B, D, E:	Ground

#### Recommended Land Pattern:



: Land Pattern

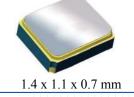
Unit:mm

\*All Dimensions are in mm

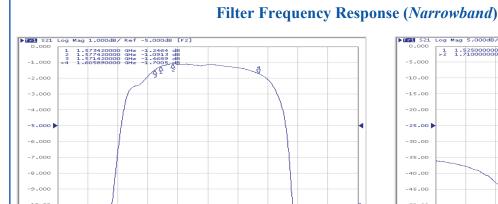


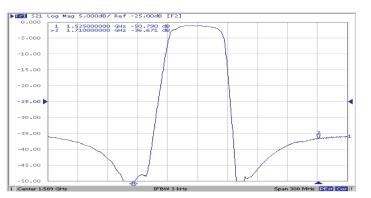
AFS14A34-1588.66-T3



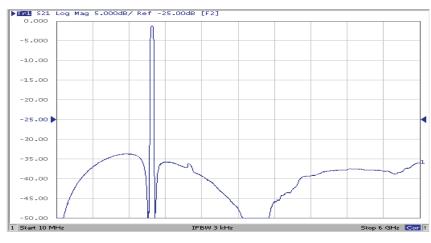


### **FREQUENCY CHARACTERISTICS:**





### Filter Frequency Response (Wideband)



## **REFLECTION FUNCTIONS:**







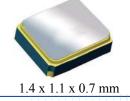
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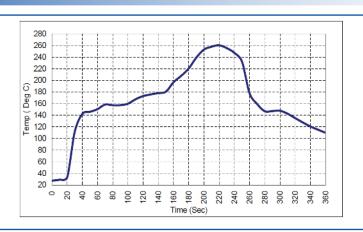
ABRACON IS ISO9001-2015 CERTIFIED

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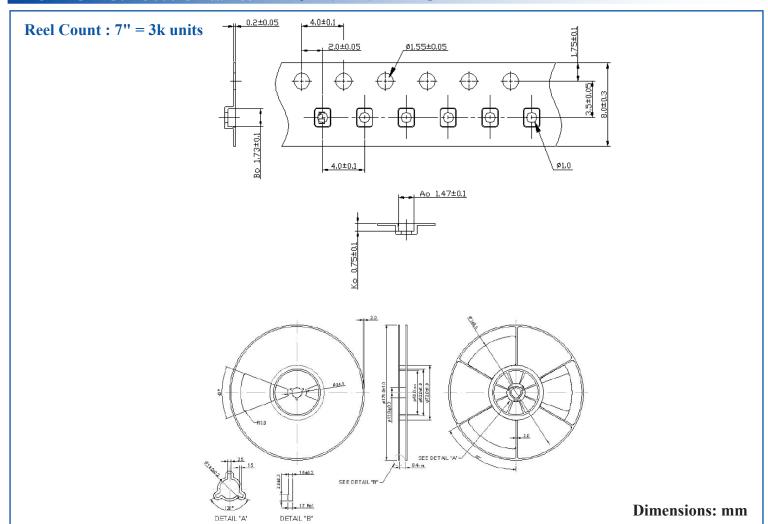




### **REFLOW PROFILE:**



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



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