

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



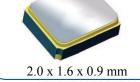




## AFS20A15-2017.50-T3

Moisture Sensitivity Level (MSL) – This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable





#### > FEATURES:

- 2.0 x 1.6 x 0.9 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:**

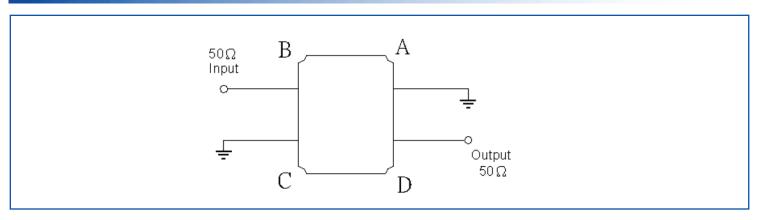
#### **Maximum Ratings**

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 + 95°C			

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f <sub>c</sub> )		2017.50		MHz	
Insertion Loss (IL)		1.25	2.20	dB	(2010 ~ 2025MHz)
Effective Bandwidth		15.00		MHz	
Amplitude Ripple		0.10	1.00	dB	(2010 ~ 2025MHz)
Worst-Case Input / Output Return Loss		16.54	10.16	dB	(2010 ~ 2025MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	30	33			(DC ~ 1020MHz)
	20	33		dB	(1220 ~ 1570MHz)
	30	34			(1570 ~ 1590MHz)
	20	34			(1590 ~ 1820MHz)
	31	34			(1820 ~ 1850MHz)
	20	27			(1850 ~ 1950MHz)
	19	21			(2085 ~ 2400MHz)
	29	33			(2400 ~ 2430MHz)
	25	32			(2430 ~ 2790MHz)
	30	32			(2790 ~ 2820MHz)
	25	34			(2820 ~ 3000MHz)
	20	32			(3000 ~ 4010MHz)
	25	32			(4010 ~ 4060MHz)
	10	22			(4060 ~ 6000MHz)
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:

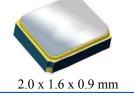




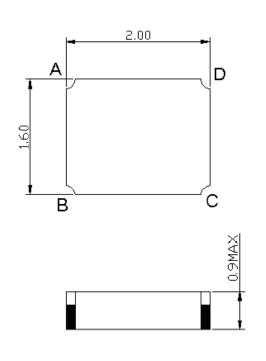


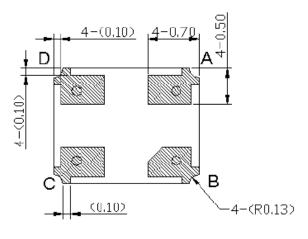
AFS20A15-2017.50-T3





#### **OUTLINE DIMENSIONS:**

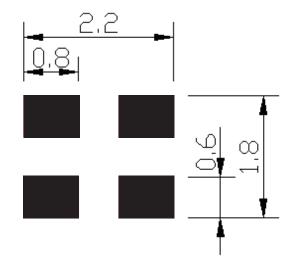




#B:	Input
#D:	Output
#A,C:	Ground

\*All Dimensions are in mm

### Recommended Land Pattern:

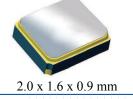




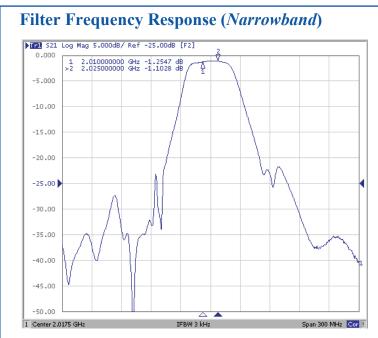


AFS20A15-2017.50-T3

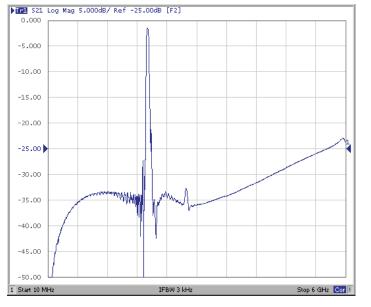




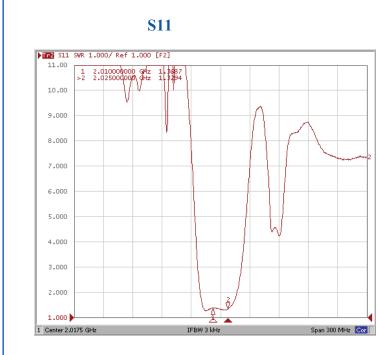
### **▶** FREQUENCY CHARACTERISTICS:

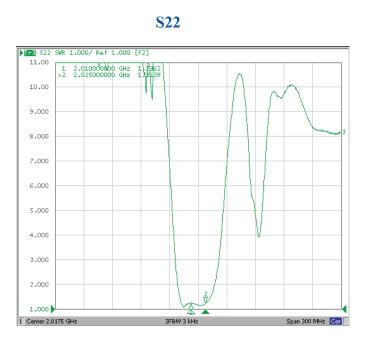


## Filter Frequency Response (Wideband)



#### **REFLECTION FUNCTIONS:**



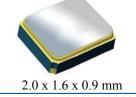




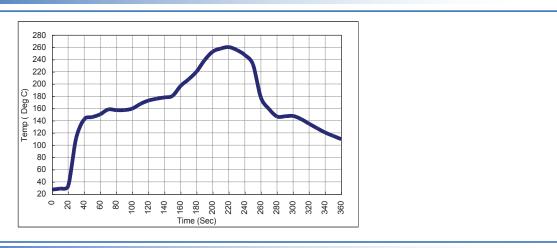


AFS20A15-2017.50-T3

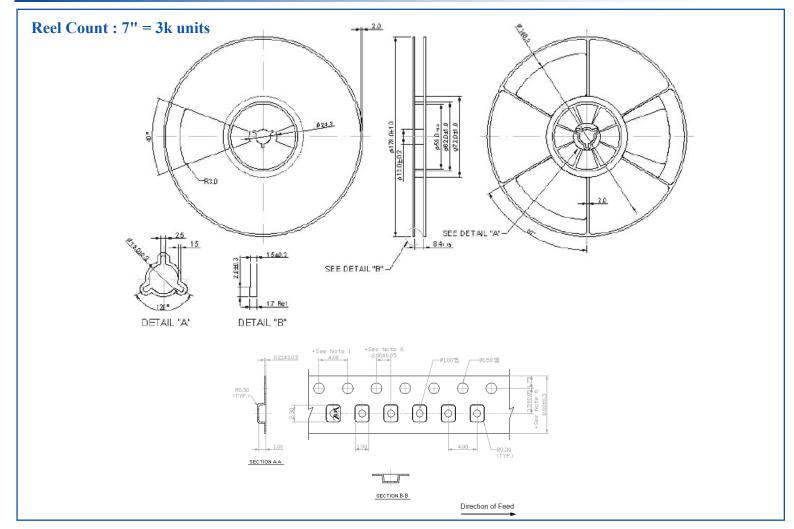




#### **REFLOW PROFILE:**



### 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.



