AFS20A42-1575.42-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

ELECTRICAL SPECIFICATIONS:

Maximum Ratings



•Wireless Communication

(Pb

RoHS

Compliant

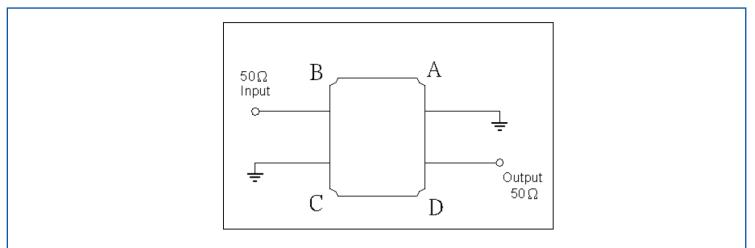
- Remote Control
- Cellular Phones

Maximum Katings			
Item	Value		
Input Power Level	+10 dBm max.		
DC Permissive Voltage	7.5V DC max.		
Operating Temperature Range	-40°C to + 85°C		
Storage Temperature Range	-40°C to + 95°C		

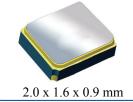
Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f _c)		1575.42		MHz	
Insertion Loss (IL)		1.20	1.60	dB	1574.42 ~ 1576.42MHz
Effective Bandwidth		42		MHz	
Amplitude Ripple		0.1	0.8	dB	1574.42 ~ 1576.42MHz
Worst-Case Input / Output Return Loss		20	10	dB	1574.42 ~ 1576.42MHz
Stop-band Attenuation (Referenced to 0.0 dB)	20	34			DC ~ 1000MHz
	30	39		dB	1625MHz ~ 1635MHz
	25	32			1800MHz ~ 3000MHz
Source Impedance (Z _S)		50		Ω	See note # 1
Load Impedance (Z _L)		50		Ω	See note # 1

Note #1: No matching network required for operation into 50Ω 's

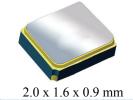
TEST CIRCUIT:







AFS20A42-1575.42-T3

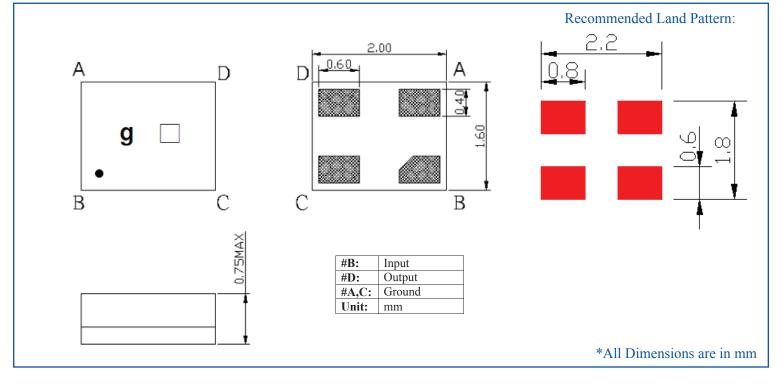


RoHS

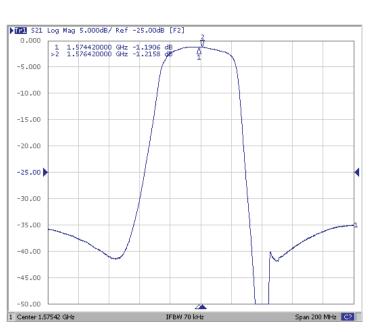
Compliant

(Pb

OUTLINE DIMENSIONS:



FREQUENCY CHARACTERISTICS:



Filter Frequency Response (Narrowband)

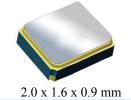
Filter Frequency Response (Wideband) ▶ [F1] S21 Log Mag 5.000dB/ Ref -25.00dB [F2] 0.000 1.000000000 GHz -34.263 dB 1.500000000 GHz -38.256 dB 1.625000000 GHz -41.709 dB 1.635000000 GHz -39.545 dB 1.800000000 GHz -33.271 dB -5.000 -10.00 -15.00 -20.00 -25.00 -30.00 -35.00 -40.00 -45.00 -50.00 1 Start 10 M IFBW 70 kHz Stop 3 GHz C? !





Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.16.13** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

AFS20A42-1575.42-T3

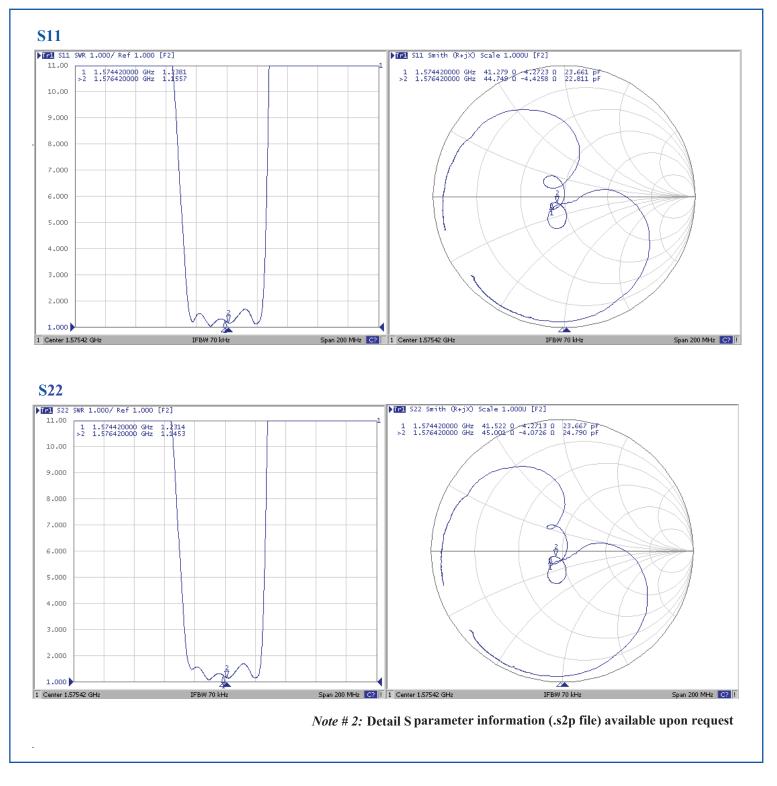


RoHS

Compliant

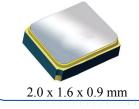
Pb

REFLECTION FUNCTIONS





AFS20A42-1575.42-T3

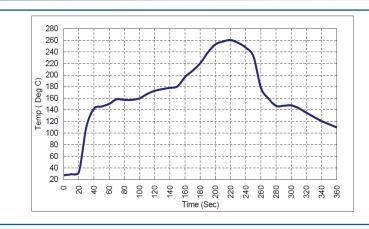


RoHS

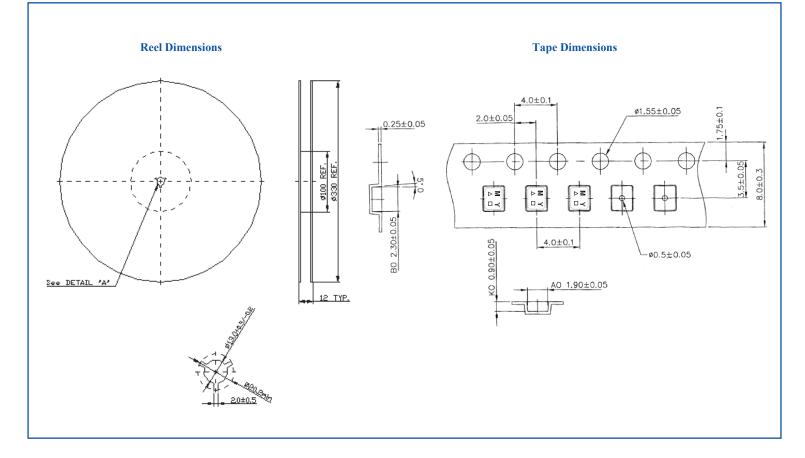
Compliant

Pb

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.

ABRACON IS ISO 9001:2008 CERTIFIED



Visit www.abracon.com for Terms & Conditions of Sale **Revised: 04.16.13** 30332 Esperanza, Rancho Santa Margarita, California 92688 tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

ABRACON: AFS20A42-1575.42-T3