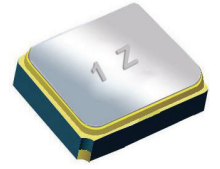


Surface Mount 1575.42MHz SAW Filter

AFS20A42-1575.42-T2



RoHS
Compliant



2.0 x 1.6 x 0.9 mm

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:

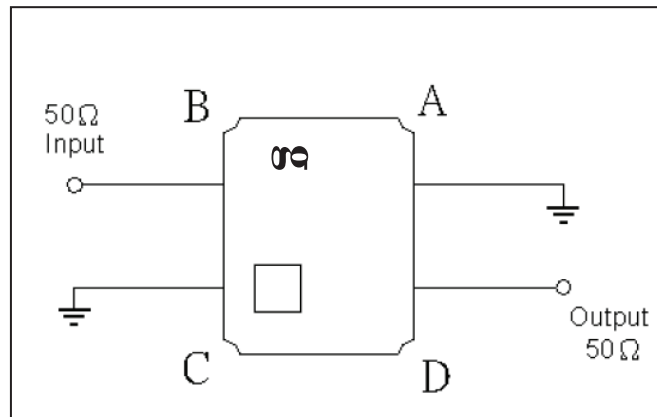
Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	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
3-dB 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		dB	DC ~ 1000MHz
	30	39			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 50 Ω 's

TEST CIRCUIT:

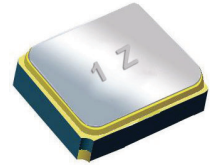


Surface Mount 1575.42MHz SAW Filter

AFS20A42-1575.42-T2

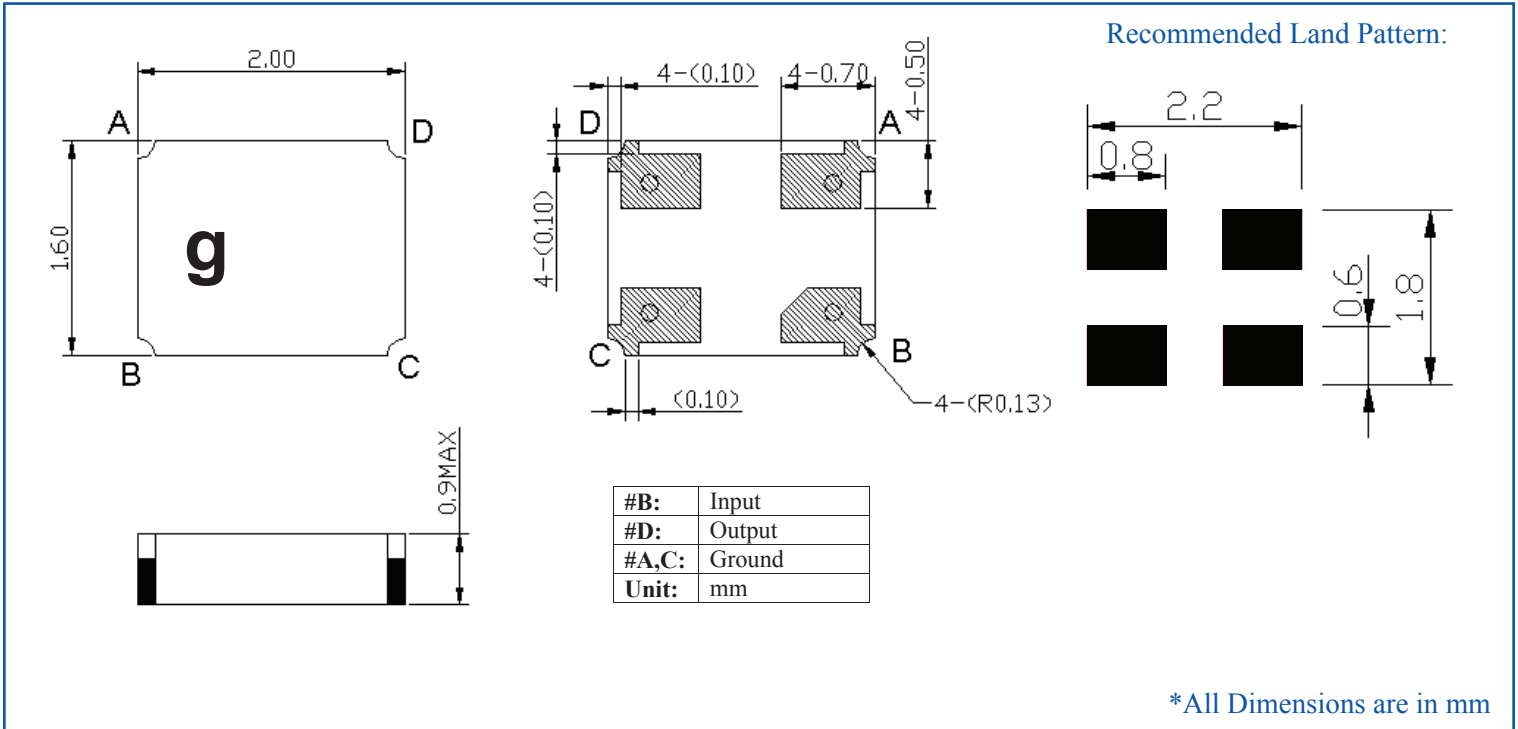


RoHS
Compliant



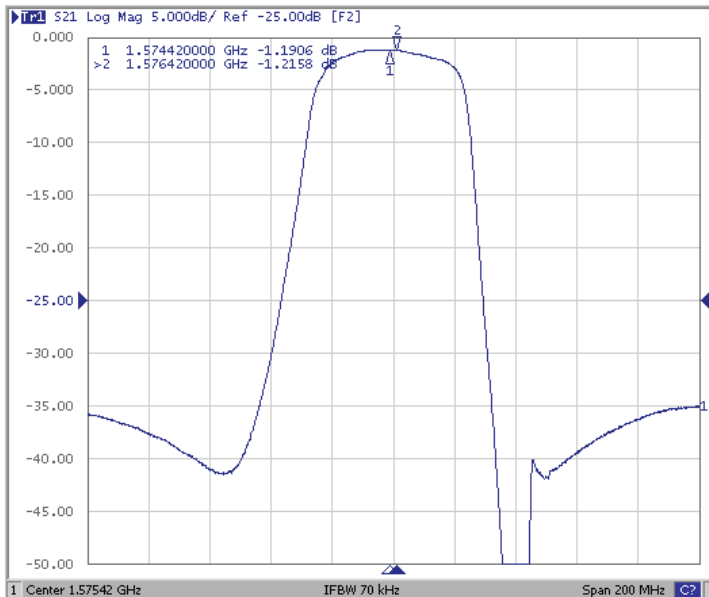
2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:

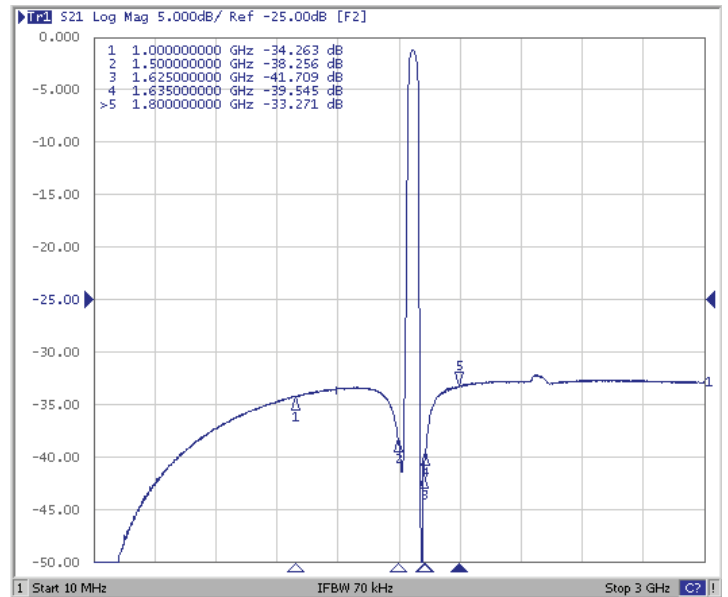


FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)

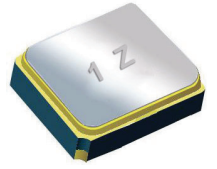


Surface Mount 1575.42MHz SAW Filter

AFS20A42-1575.42-T2



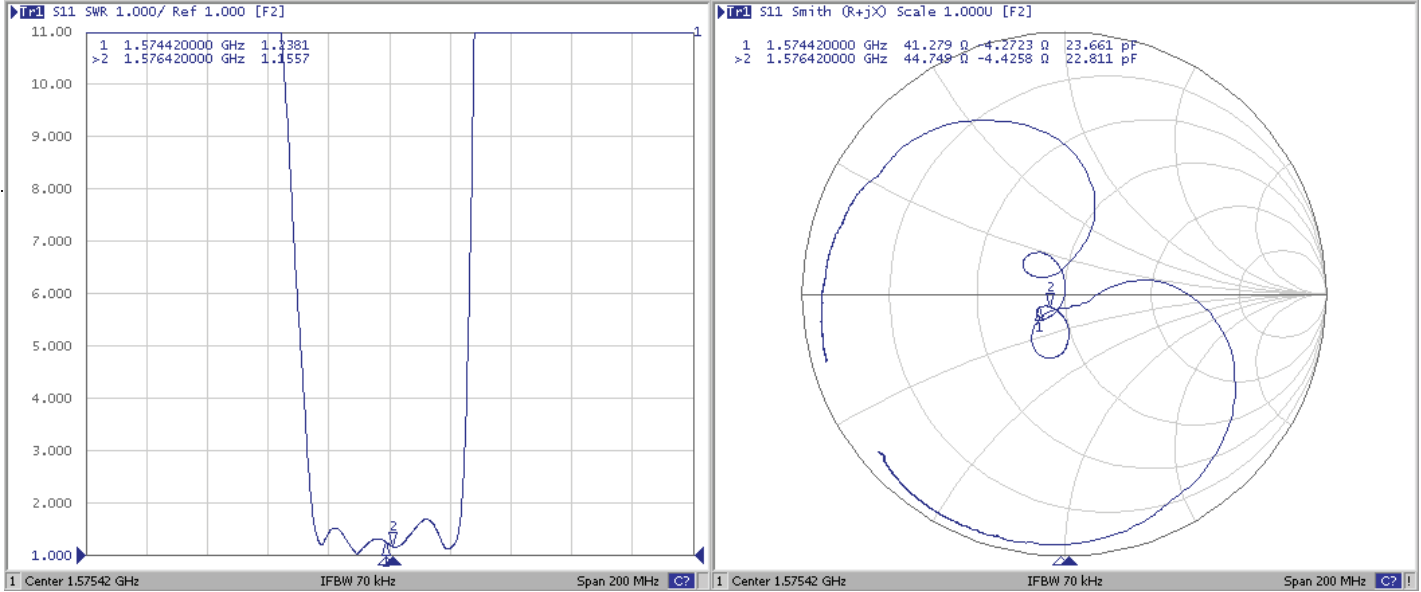
RoHS
Compliant



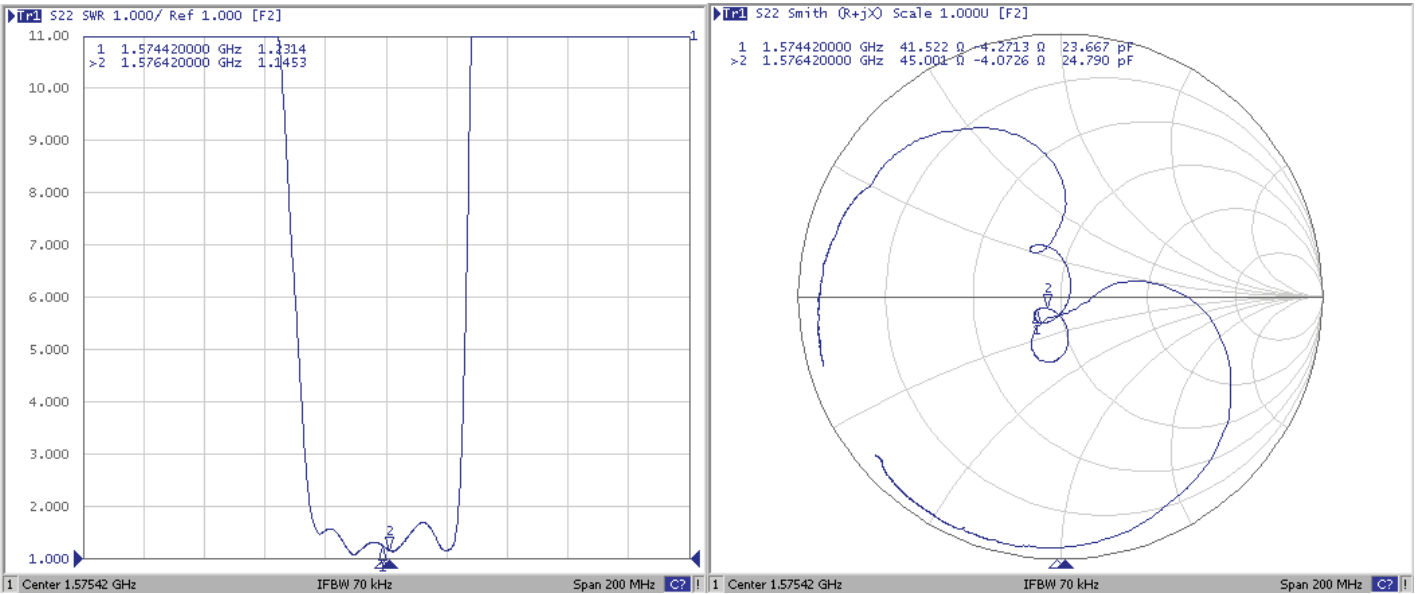
2.0 x 1.6 x 0.9 mm

REFLECTION FUNCTIONS

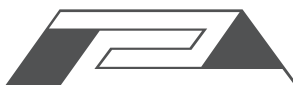
S11



S22



Note # 2: Detail S parameter information (.s2p file) available upon request

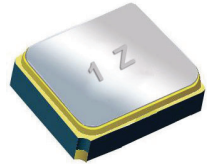


Surface Mount 1575.42MHz SAW Filter

AFS20A42-1575.42-T2

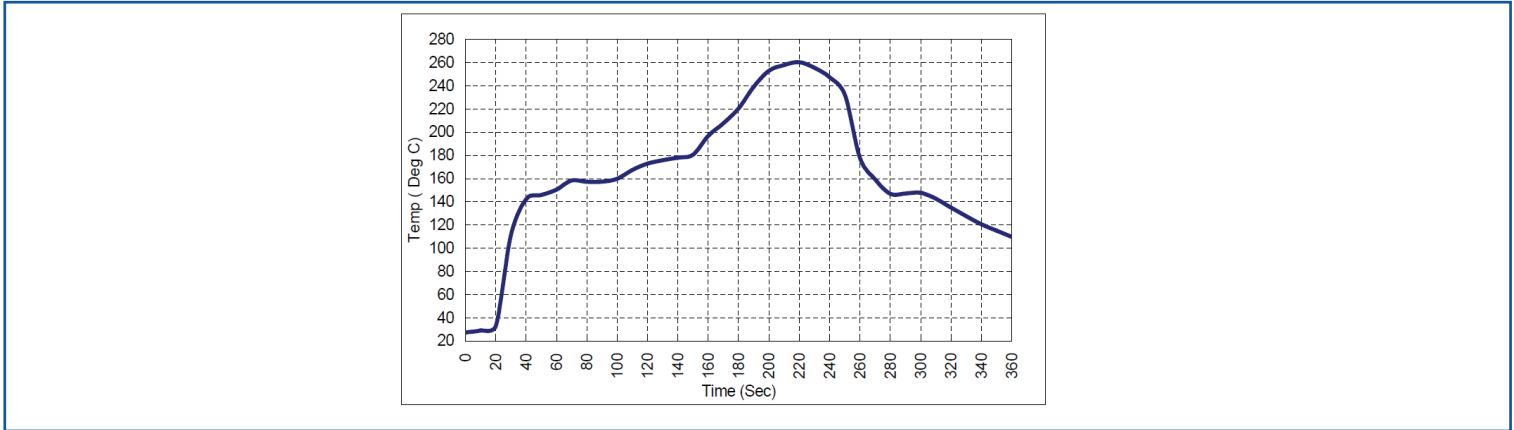


RoHS
Compliant

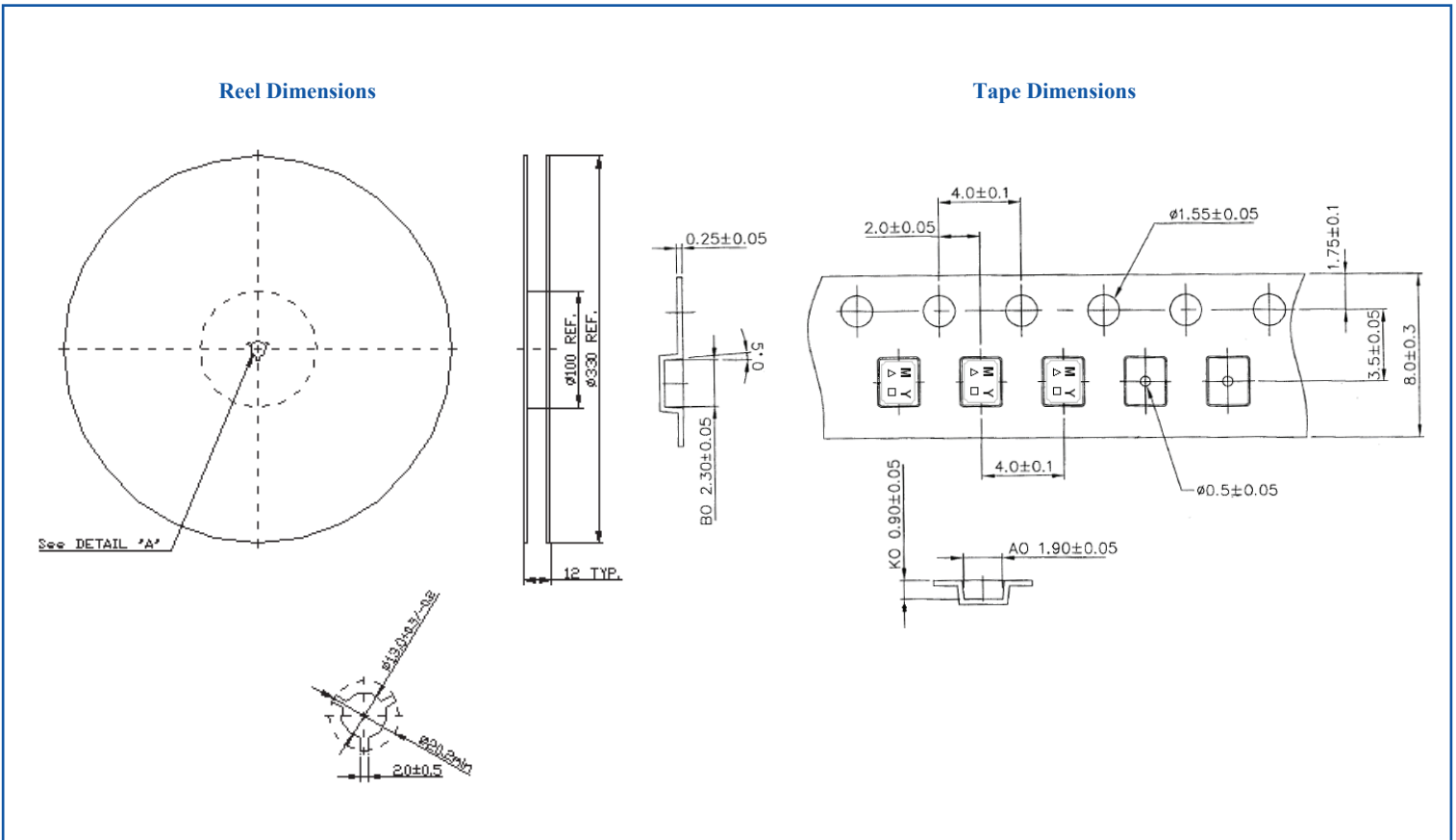


2.0 x 1.6 x 0.9 mm

REFLOW PROFILE:



PACKAGING: 2000 Units/Reel



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
30332 Esperanza, Rancho Santa Margarita, California 92688
tel 949-546-8000 | fax 949-546-8001 | www.abracon.com

Revised: 05.21.12