

Engineering/Process Change Notice

ECN/PCN No.: R0047

For Manufacturer								
Product Description:	Abracon Part Numbe	er / Part Series:	☐ Documentation only ☐ Series					
Surface Mount 1910.00MHz SAW Filter	AFS20A20-1910.00-T3		□ ECN ⊠ Part Nui					
			⊠ EOL					
Affected Revision:	New Revision:		Application:	☐ Safety				
Initial Release	EO	L		□ Non-Safety				
Prior to Change:								
N/A								
After Change:								
EOL								
Cause/Reason for Change:								
Due to low demand this part is discontinued.								
	Chang	ge Plan						
Effective Date:	Additional Remarks:							
06/28/2021	N/A							
Change Declaration:								
EOL								
Issued Date:	Issued By:		Issued Department:					
06/28/2021	Nicholas El-Takach		Engineering					
Approval:	Approval:		Approval:					
Syed Raza	Reuben Quintanilla		Ying Huang					
Engineering VP	Quality Director Purchasing Director			ector				
	<u> </u>	on EOL only	/p . c .:					
Last Time Buy (if applicable): No last time buy.		Alternate Part Number / Part Series: N/A						
•	Additional Approvals							
Additional Approval:	Additional Approval:		Additional Approval:					
	Customer Appro	val (If Applicable)						
Qualification Status:	Customer Appro	vai (ii Applicable)						
Qualification Status.	□ Approved □	☐ Not accepted						
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.								
Customer Part Number:		Customer Project:						
		•						
Company Name:	Company Representative:		Representative Signature:					
Customer Remarks:								

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Form #7020 | Rev. G | Effective: 02/22/2021 |







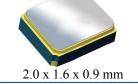




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 $\label{lem:moisture Sensitivity Level (MSL) - This product is Hermetically Sealed and not Moisture Sensitive - MSL = N/A: Not Applicable$

RoHS Compliant



> 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:

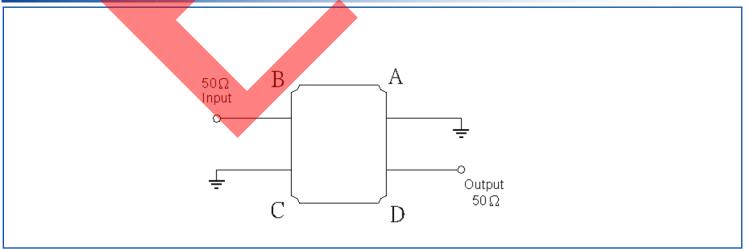
Maximum Ratings

Item	Value		
Input Power Level	+15 dBm max.		
DC Permissive Voltage	5.0V DC max.		
Operating Temperature Range	$0^{\circ}\text{C to} + 70^{\circ}\text{C}$		
Storage Temperature Range	-30°C to +85°C		

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f _c)		1910.00		MHz	
Insertion Loss (IL)		1.20	1.80	dB	(1900 ~ 1920MHz)
Effective Bandwidth		20.00		MHz	
Amplitude Ripple		0.4	2.00	dB	(1900 ~ 1920MHz)
Worst-Case Input / Output Return Loss		16.0	8.0	dB	(1900 ~ 1920MHz)
Stop-band Attenuation (Referenced to 0.0 dB)	15	32		dB	(925 ~ 1600MHz)
	25	28			(1600 ~ 1825MHz)
	20	29			(1825 ~ 1840MHz)
	10	35			(1840 ~ 1850MHz)
	5	13.50			(1850 ~ 1880MHz)
	25	32			(2040 ~ 2660MHz)
	25	33			(2660 ~ 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:

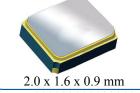




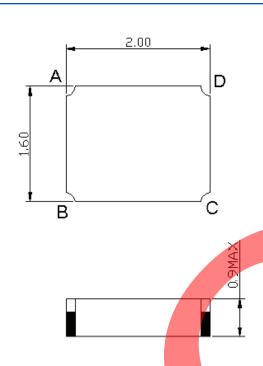


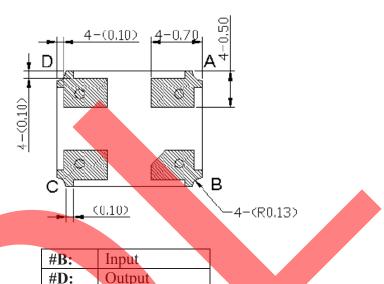
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OUTLINE DIMENSIONS:



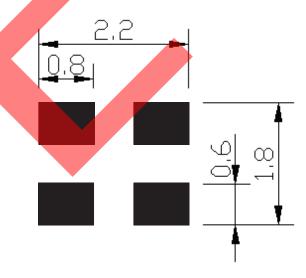


*All Dimensions are in mm

Recommended Land Pattern:

#**A**,**C**:

Ground

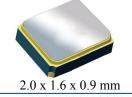






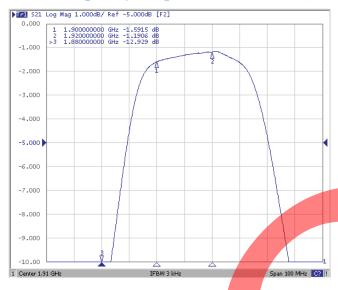
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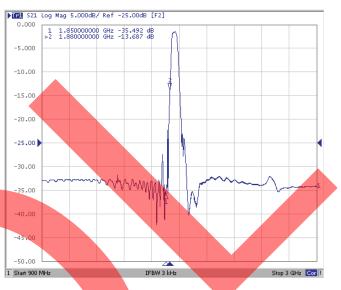


FREQUENCY CHARACTERISTICS:

Filter Frequency Response (Narrowband)



Filter Frequency Response (Wideband)



REFLECTION FUNCTIONS:





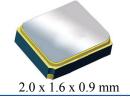


ABRACON IS ISO 9001:2008 CERTIFIED

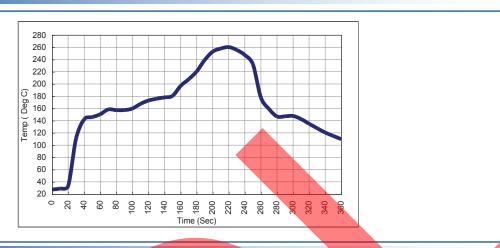


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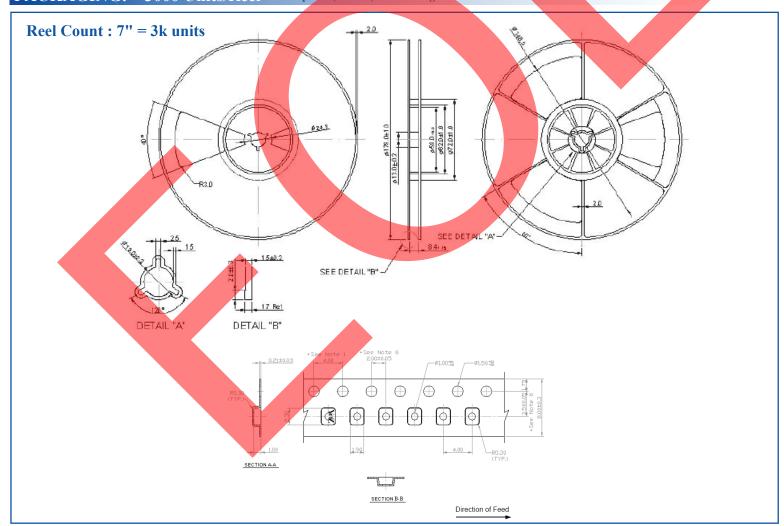




REFLOW PROFILE:



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



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