Engineering/Process Change Notice

ECN/PCN No.: R0048

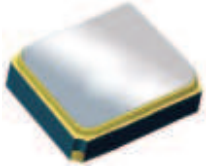
For Manufacturer		
Product Description: Surface Mount 2017.50MHz SAW Filter	**Abracon Part Number / Part Series:** AFS20A15-2017.50-T3	☐ Documentation only ☐ Series ☐ ECN ☒ Part Number ☒ EOL
Affected Revision: Initial Release	**New Revision:** EOL	**Application:** ☐ Safety ☒ Non-Safety
Prior to Change: N/A		
After Change: EOL		
Cause/Reason for Change: Due to low demand this part is discontinued.		

Change Plan		
Effective Date: 06/28/2021	**Additional Remarks:** N/A	
Change Declaration: EOL		
Issued Date: 06/28/2021	**Issued By:** *Nicholas El-Takach*	**Issued Department:** Engineering
Approval: *Syed Raza* Engineering VP	**Approval:** *Reuben Quintanilla* Quality Director	**Approval:** *Ying Huang* Purchasing Director

For Abracon EOL only		
Last Time Buy (if applicable): No last time buy.	**Alternate Part Number / Part Series:** N/A	
Additional Approval:	**Additional Approval:**	**Additional Approval:**

Customer Approval (If 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:		

Surface Mount 2017.50MHz SAW Filter



2.0 x 1.6 x 0.9 mm

AFS20A15-2017.50-T3

RoHS Compliant

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:

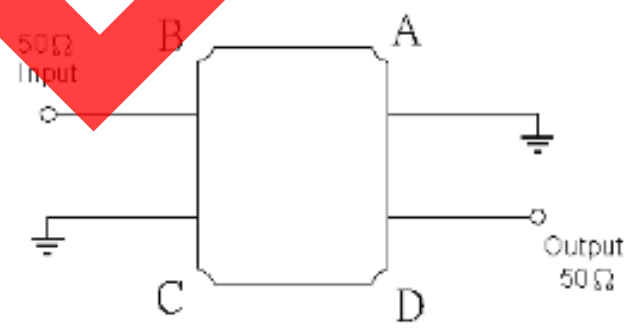
Maximum Ratings

Item	Value
Input Power Level	+10 dBm max.
DC Permissive Voltage	3.0V DC max.
Operating Temperature Range	-30ºC to + 85ºC
Storage Temperature Range	-40ºC to + 95ºC

Parameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency (f_c)		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		dB	(DC ~ 1020MHz)
	20	33			(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_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:



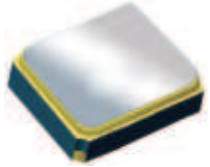
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Surface Mount 2017.50MHz SAW Filter

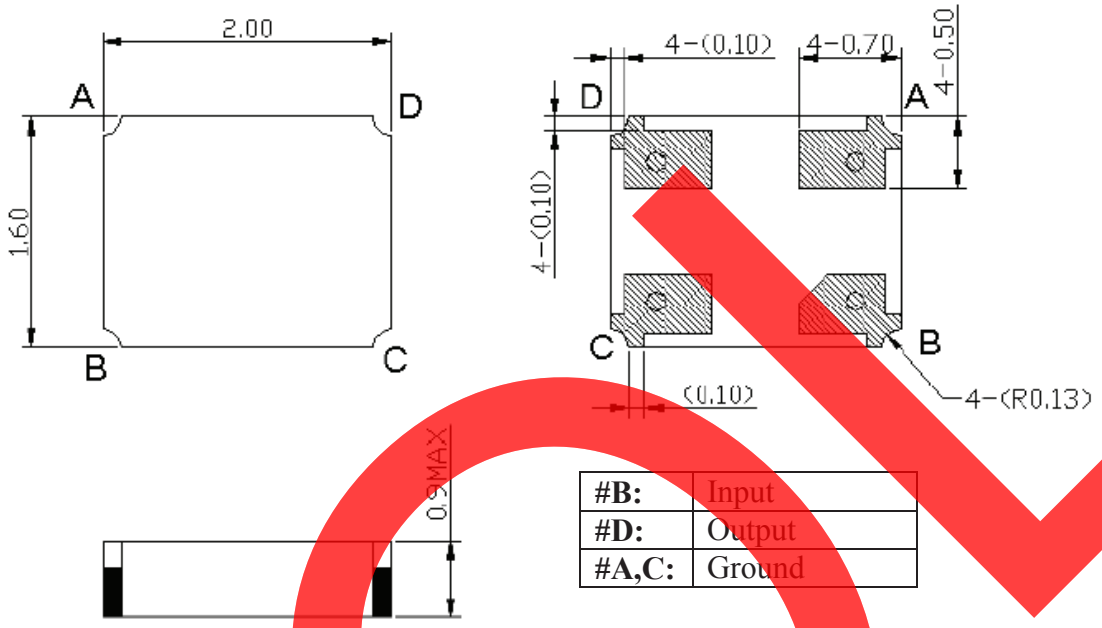
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Pb RoHS Compliant



2.0 x 1.6 x 0.9 mm

OUTLINE DIMENSIONS:

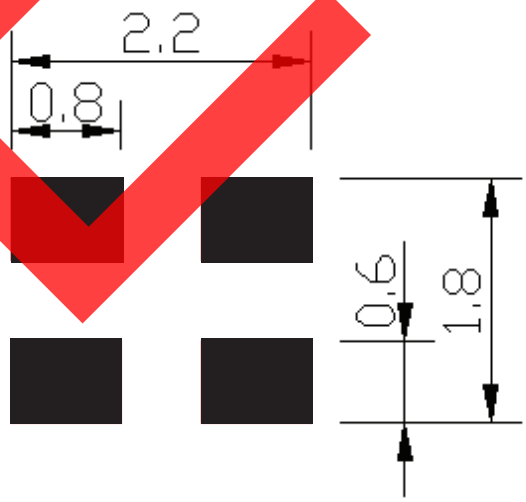


#B:	Input
#D:	Output
#A,C:	Ground

*All Dimensions are in mm

EOL

Recommended Land Pattern:

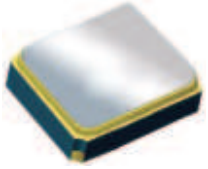


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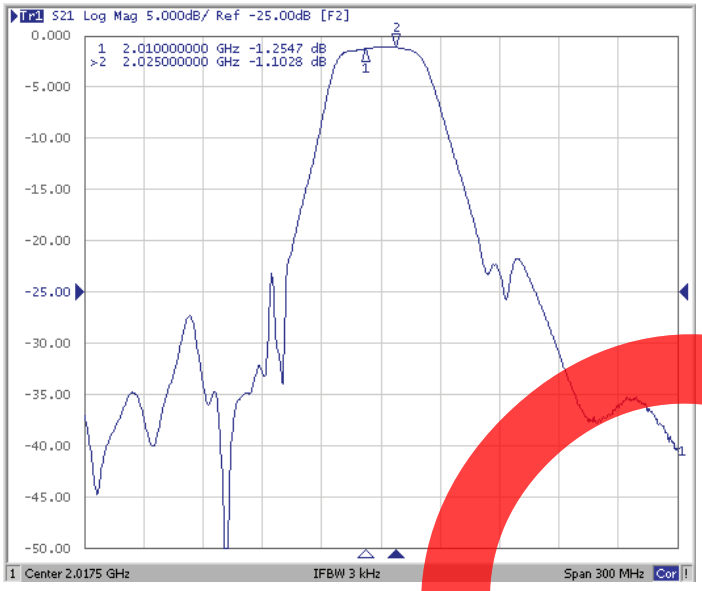
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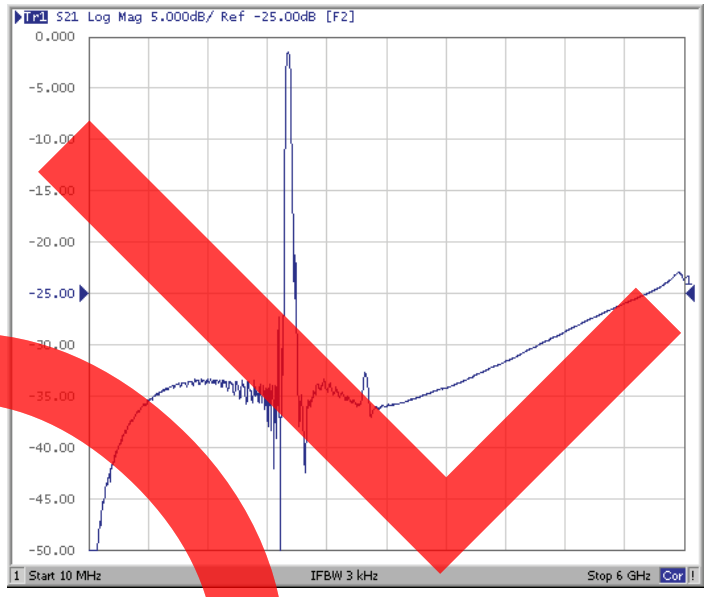
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FREQUENCY CHARACTERISTICS:

Filter Frequency Response (*Narrowband*)



Filter Frequency Response (*Wideband)*

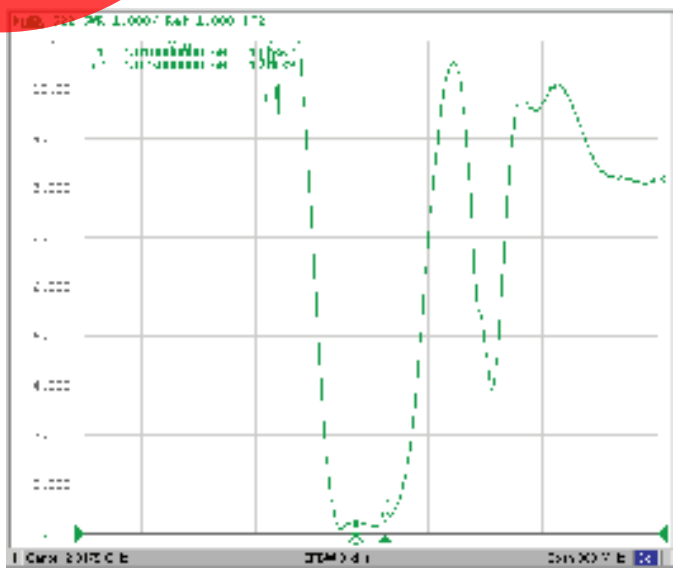


REFLECTION FUNCTIONS:

S11



S22



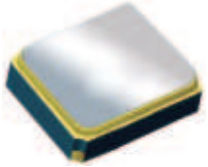
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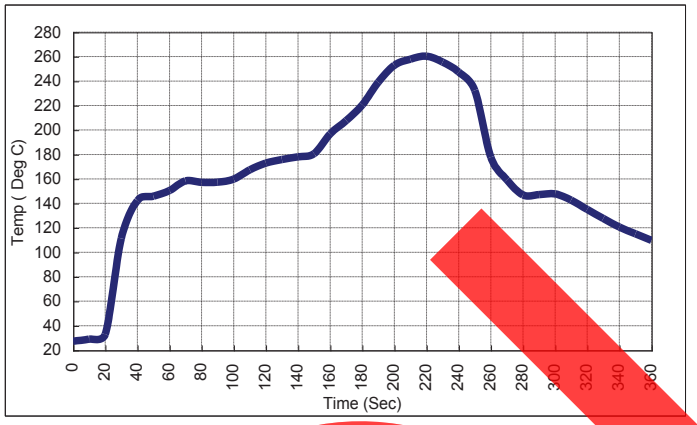
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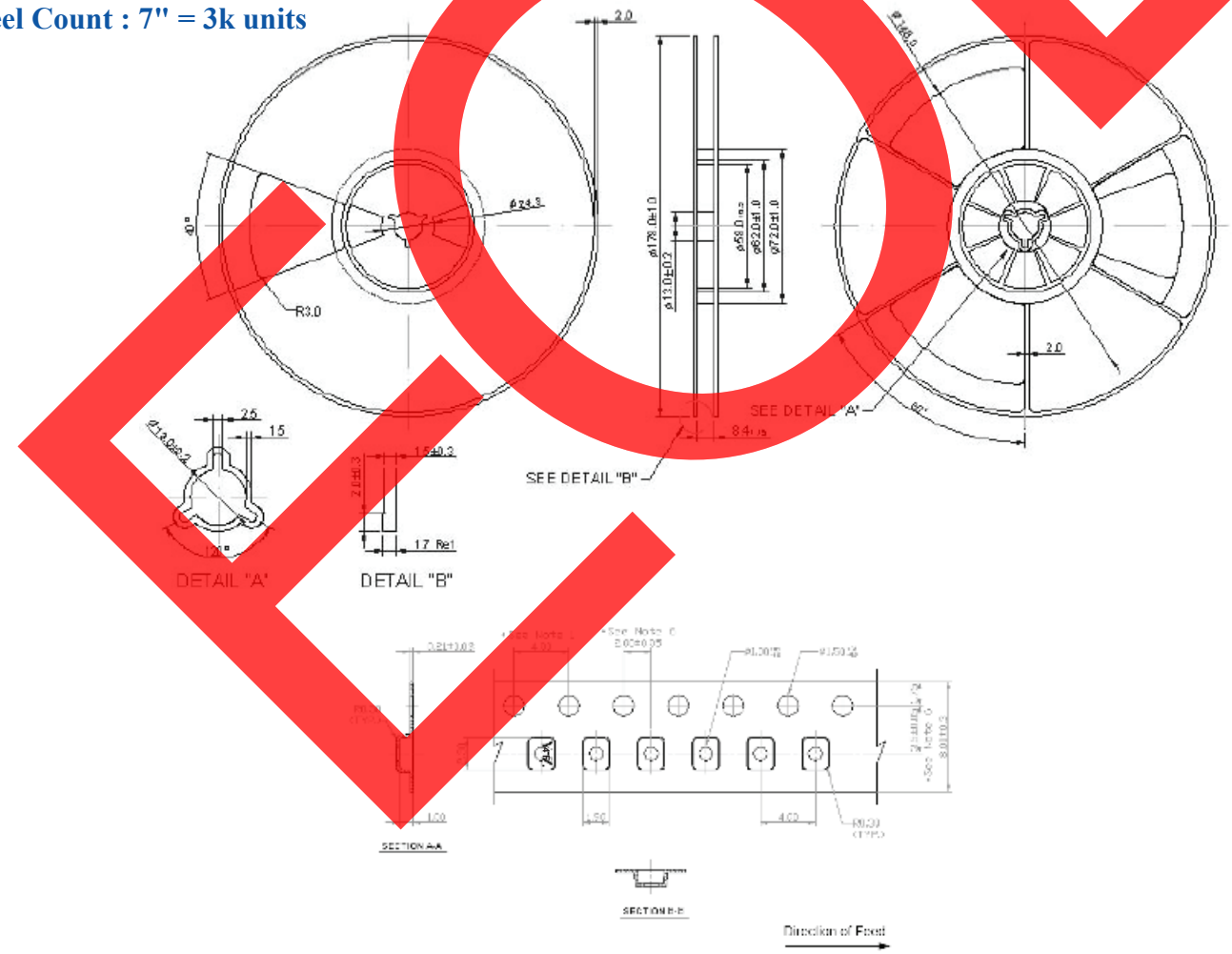
2.0 x 1.6 x 0.9 mm

REFLOW PROFILE:



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

Reel Count : 7" = 3k units



EOL

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