

Engineering/Process Change Notice

ECN/PCN No.: R0049

For Manufacturer									
Product Description: SMD 303.825MHz SAW Filter	Abracon Part Number / Part Series: AFS303.825E		□ Documentation only□ ECN☑ EOL	☐ Series ☑ Part Number					
Affected Revision:	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.									
	Chang	ge 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	Approval: Reuben Quintanilla		Approval:						
Engineering VP	Quality D		Ying Huang Purchasing Director						
	For Abraco	on EOL only							
Last Time Buy (if applicable):		Alternate Part Numb	per / Part Series:						
No last time buy.			N/A						
Additional Approval:	Additional Approval:		Additional Approval:						
	Customer Appro	val (If Applicable)							
Qualification Status:									
\Box Approved \Box 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:									

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













SMD 303.825MHz SAW Filter

AFS303.825E

Moisture Sensitivity Level – MSL 1

FEATURES:

- Low Insertion Loss 3.0dB typical
- Compact SMD package 5.0 x 5.0 x 1.35mm
- Suitable for RoHS compliant reflow





> APPLICATIONS:

Automotive Electronics/Remote Control

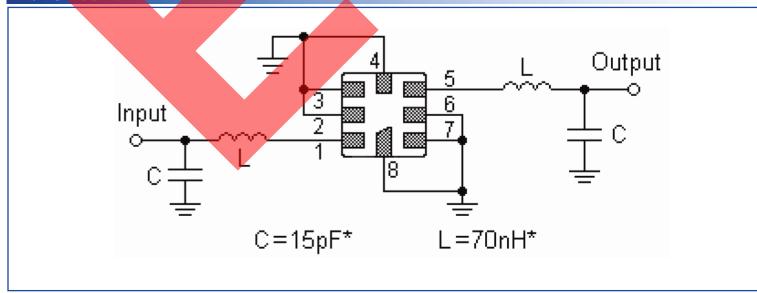
STANDARD SPECIFICATIONS:

Maximum Ratings

Item	Value			
Operating Temperature Range	-10° C to $+60^{\circ}$ C			
Storage Temperature Range	-40° C to $+85^{\circ}$ C			
DC Voltage	12V			
Input Power Level	10dBm			

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Pa	rameters	Minimum	Typical	Maximum	Units	Notes
Center Frequency	(f_c)		303.825		MHz	
3dB Pass Band (B	SW_3)		600	900	kHz	
Insertion Loss (IL)		3.0	4.5	dB	
		40	50			at 282.425 MHz (Image)
Rejection	20	30		dB	at 293.125 (LO)	
			60			Ultimate
Temperature	Turnover Temperature (T _o)	25		55	°C	
	Turnover Frequency (f _o)		303.825		MHz	
	Frequency Temperature Coefficient (FTC)		0.032		ppm/°C ²	
Frequency Aging	fA		10		ppm/yr	Absolute value during the first year

> TEST CIRCUIT:

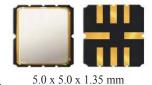




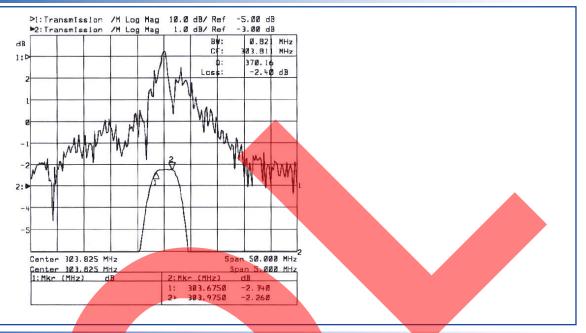


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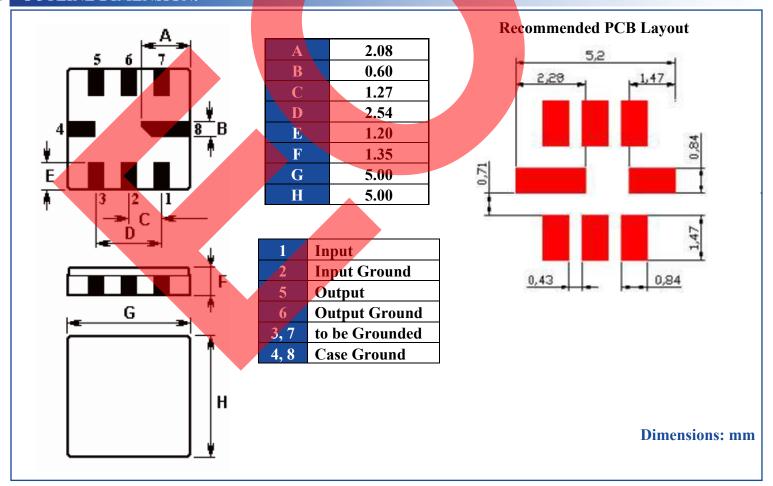




FREQUENCY CHARACTERISTICS



OUTLINE DIMENSION:

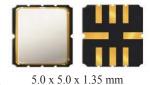




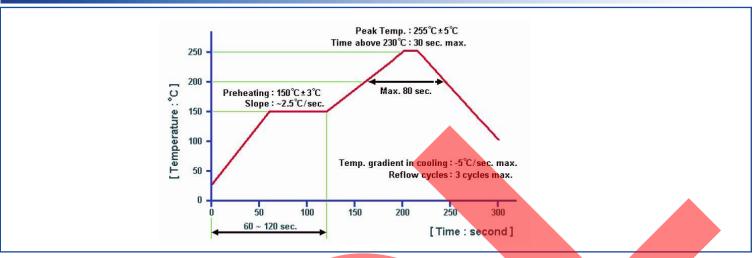


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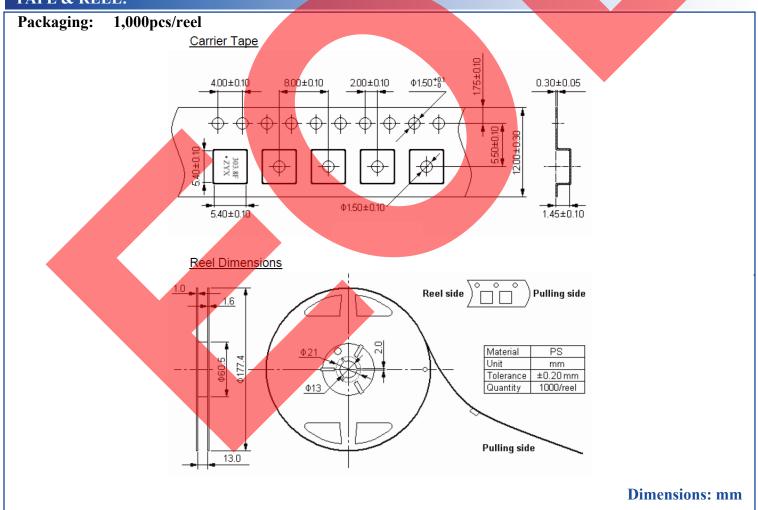




REFLOW PROFILE:



TAPE & REEL:



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