

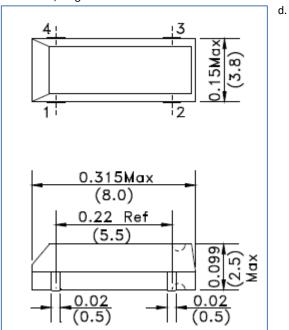
Engineering/Process Change Notice

ECN/PCN No.: 3455

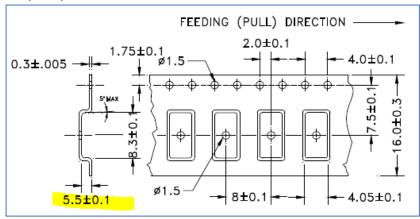
For Manufacturer					
Product Description:		Abracon Part Number / Part Series:	⊠Series		
Low Frequency SMD Crystal		ABS25	☐Part Number		
Affected Revision:	New Revision:	Application	□Safety		
U	V		⊠Non-Safety		

Prior to Change:

- 1. ROHS Statement
 - a. Pb in High Temperature Solder (exempt per RoHS 2002/95/EC Annex (7))
- 2. Electrical performance
 - a. Frequency Coefficient (ß):
 - i. $Min = -0.040 ppm/T^2$
 - ii. Typ = -0.034 ppm/T^2
 - iii. $Max = -0.028 ppm/T^2$
- 3. Mechanical Dimensions (millimeters)
 - a. Top view; width dimension = 3.8 mm MAX
 - b. Top view; length dimension = 8.0 MAX
 - c. Side view; height dimension = 2.5 MAX



- 4. Tape Packaging Dimension (millimeters)
 - a. Depth of part-insert dimension = 5.5 ± 0.1



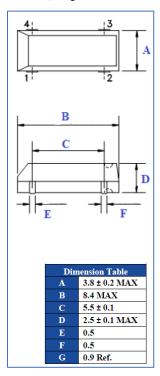
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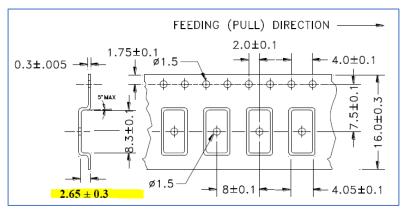
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After Change:

- 1. ROHS Statement
 - a. Pb in high temperature solder (exempt 7(a) per 2015/863/EU Annex)
- 2. Electrical performance
 - a. Frequency Coefficient (ß):
 - i. Typ = -0.035 ± 0.01 ppm/°C²
- 3. Mechanical Dimensions (millimeters)
 - a. Top view; width dimension = 3.8 ± 0.2 MAX (increase)
 - b. Top view; length dimension = 8.4 MAX (increase)
 - c. Side view; height dimension = 2.5 ± 0.1 MAX (increase)



- 4. Reel Packaging Dimension (millimeters)
 - a. Depth of part-insert dimension = 2.65 ± 0.3 (original dimension on the datasheet was a typing error)



Cause/Reason for Change:

- 1. Standard review and upgrade of product series.
- 2. ROHS compliance statement updated.
- 3. Due to raw material availability, part size/dimension adjustments were implemented.
- 4. Typing error fixed for one tape-packaging dimension.

Change Plan	Effective Date:	Additional Remarks:	
	9/23/2019	N/A	

Change Declaration:

These changes do not negatively impact electrical performance of this series. The mechanical dimension changes of the part slightly increased.

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Engineering/Process Change Notice

Issued Date: 9/23/2019	Issued By:		Issued Department:				
	Brooke Cushman		Engineering				
Approval:	Approval:		Approval:				
Syed Raza	Reuben Quintanilla		Ying Huang				
Engineering VP	Quality Manager		Purchasing Director				
For Abracon EOL only							
Last Time Buy (if applicable): N/A		Alternate Part Number / Part Series: N/A					
Additional Approval:	Additional Approval:		Additional Approval:				
N/A	N/A		N/A				
Customer Approval (If Applicable)							
Qualification Status:							
☐ Approved							
□ Not accepted							
Note: It is considered approved if there is no fe	edback from customer 1 n	nonth after ECN/PCN 1s	released				
Customer Part Number:		Customer Project:					
Company Name: Company Representati		live:	Representative Signature:				
Customer Remarks:							

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