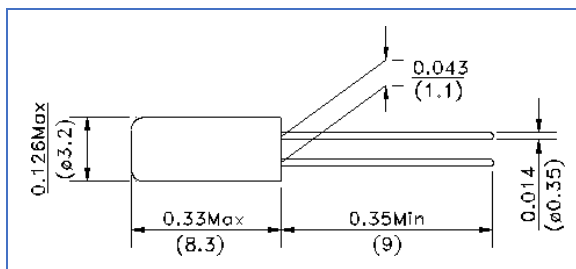


ECN/PCN No.: 3452

For Manufacturer		
Product Description: LOW FREQUENCY CYLINDRICAL WATCH CRYSTAL	Abracon Part Number / Part Series: AB38T	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
Affected Revision: I	New Revision: J	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

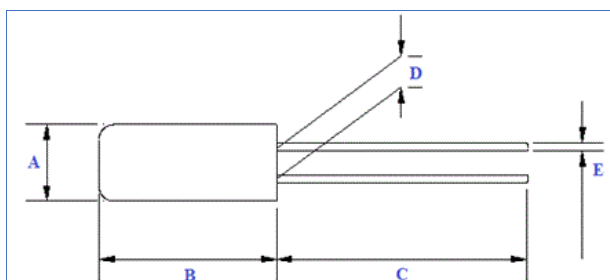
Prior to Change:

1. Electrical performance
 - a. Frequency Coefficient (β):
 - i. Min = -0.040 ppm/T²
 - ii. Typ = -0.034 ppm/T²
 - iii. Max = -0.028 ppm/T²
 - b. Aging specification @25°C±3°C (First year) for “other frequencies” outside of 32.768kHz:
 - i. ± 5ppm
2. Mechanical Dimensions (millimeters)
 - a. Terminal length dimension = 9 MIN
 - b. Length between 2 terminals dimension = 1.1
 - c. Terminal radial dimension = Ø 0.35



After Change:

1. Electrical performance
 - a. Frequency Coefficient (β):
 - i. Typ = -0.035±0.01 ppm/°C²
 - b. Aging specification @25°C±3°C (First year) for “other frequencies” outside of 32.768kHz:
 - i. Specification removed entirely. This part is not offered at any “other frequency” outside of 32.768kHz anymore.
2. Mechanical Dimensions (millimeters)
 - a. Terminal length dimension = 8 MIN
 - b. Length between 2 terminals dimension = 0.8 ± 0.3
 - c. Terminal radial dimension = Ø 0.34 ± 0.2



Dimension Table	
A	Ø 3.2 MAX
B	8.3 MAX
C	8.0 MIN
D	0.8 ± 0.3
E	Ø 0.34 ± 0.2

Cause/Reason for Change:		
1. Standard review and upgrade of product series. 2. Due to raw material availability, part size/dimension adjustments were implemented.		
Change Plan		
Effective Date: 01/04/2021	Additional Remarks: N/A	
Change Declaration: These changes do not negatively impact electrical performance of this series.		
Issued Date: 01/04/2021	Issued By: Brooke Cushman – Product Engineer	Issued Department: Engineering
Approval: <i>Thomas Culhane</i> Engineering Director	Approval: <i>Reuben Quintanilla</i> Quality Director	Approval: <i>Ying Huang</i> Purchasing Director
For Abracon EOL only		
Last Time Buy (if applicable): N/A	Alternate Part Number / Part Series: N/A	
Additional Approval: N/A	Additional Approval: N/A	Additional Approval: N/A
Customer Approval (If Applicable)		
Qualification Status:		
<input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>		
Customer Part Number:		Customer Project:
Company Name:	Company Representative:	Representative Signature:
Customer Remarks:		

AB38T-32.768KHZ
 AB38T-32.768KHZ-1
 AB38T-32.768KHZ-20
 AB38T-32.768KHZ-20-B-1
 AB38T-32.768KHZ-22
 AB38T-32.768KHZ-32
 AB38T-32.768KHZ-6
 AB38T-32.768KHZ-6-1
 AB38T-32.768KHZ-6-B
 AB38T-32.768KHZ-6-B1
 AB38T-32.768KHZ-6-B7
 AB38T-32.768KHZ-6-D
 AB38T-32.768KHZ-6E7
 AB38T-32.768KHZ-7
 AB38T-32.768KHZ-7-B-1
 AB38T-32.768KHZ-7-B-1-T
 AB38T-32.768KHZ-7PF-B7
 AB38T-32.768KHZ-8.2

AB38T-32.768KHZ-B
AB38T-32.768KHZ-B-7
AB38T-32.768KHZ-B1
AB38T-32.768KHZ-B7
AB38T-32.768KHZ-D
AB38T-32.768KHZ-D-1
AB38T-32.768KHZ-D7
AB38T-32.768KHZ-E
AB38T-32.768KHZ-E7
AB38T-32.768KHZ-S-N
AB38T-32.768KHZ-SB7
AB38T-32.768KHZ-SB7-T