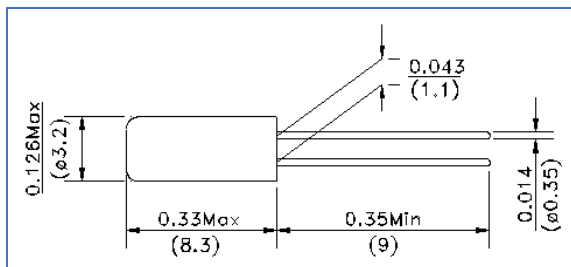


ECN/PCN No.: 3452

| 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 | Application: | <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety |

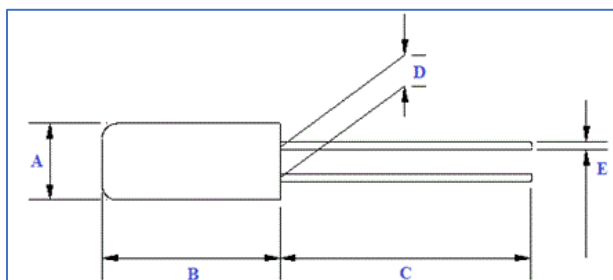
Prior to Change:

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: | | |
| <ol style="list-style-type: none"> 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