

**ECN/PCN No.: 4317**

For Manufacturer																																							
<b>Product Description:</b> Automotive & Industrial Grade 32.768kHz SMD Crystal	<b>Abracón Part Number / Part Series:</b> ABS07AIG	<input checked="" type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number																																				
<b>Affected Revision:</b> G	<b>New Revision:</b> H	<b>Application:</b> <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety																																					
<b>Prior to Change:</b> Electrical specifications: <ul style="list-style-type: none"> <li>Frequency stability over operating temperature, relative to in-circuit measured frequency post-reflow:                             <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="width: 10%;">Min.</th> <th style="width: 10%;">Max.</th> <th style="width: 10%;">Unit</th> <th style="width: 70%;">Notes</th> </tr> </thead> <tbody> <tr> <td>-160</td> <td>-100</td> <td>ppm</td> <td>Over -40°C to +85°C</td> </tr> <tr> <td>-250</td> <td>-100</td> <td>ppm</td> <td>Over -40°C to +105°C</td> </tr> <tr> <td>-450</td> <td>-100</td> <td>ppm</td> <td>Over -40°C to +125°C</td> </tr> </tbody> </table> </li> <li>Equivalent series resistance (ESR)                             <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="width: 10%;">Min.</th> <th style="width: 10%;">Max.</th> <th style="width: 10%;">Unit</th> <th style="width: 70%;">Notes</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>45</td> <td>kΩ</td> <td>@ +25±3°C</td> </tr> <tr> <td>-</td> <td>50</td> <td>kΩ</td> <td>Over -40°C to +85°C</td> </tr> <tr> <td>-</td> <td>60</td> <td>kΩ</td> <td>Over -40°C to +105°C</td> </tr> <tr> <td>-</td> <td>70</td> <td>kΩ</td> <td>Over -40°C to +125°C</td> </tr> </tbody> </table> </li> </ul>				Min.	Max.	Unit	Notes	-160	-100	ppm	Over -40°C to +85°C	-250	-100	ppm	Over -40°C to +105°C	-450	-100	ppm	Over -40°C to +125°C	Min.	Max.	Unit	Notes	-	45	kΩ	@ +25±3°C	-	50	kΩ	Over -40°C to +85°C	-	60	kΩ	Over -40°C to +105°C	-	70	kΩ	Over -40°C to +125°C
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<b>After Change:</b> Electrical specifications: <ul style="list-style-type: none"> <li>Frequency stability over operating temperature, relative to in-circuit measured frequency post-reflow:                             <ul style="list-style-type: none"> <li><i>Specifications removed from datasheet</i></li> </ul> </li> <li>Equivalent series resistance (ESR)                             <ul style="list-style-type: none"> <li><i>Specification @ +25±3°C removed from datasheet</i></li> <li><i>Remaining specifications revised to below:</i> <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th style="width: 10%;">Min.</th> <th style="width: 10%;">Max.</th> <th style="width: 10%;">Unit</th> <th style="width: 70%;">Notes</th> </tr> </thead> <tbody> <tr> <td>-</td> <td>60</td> <td>kΩ</td> <td>Over -40°C to +85°C</td> </tr> <tr> <td>-</td> <td>70</td> <td>kΩ</td> <td>Over -40°C to +105°C</td> </tr> <tr> <td>-</td> <td>80</td> <td>kΩ</td> <td>Over -40°C to +125°C</td> </tr> </tbody> </table> </li> </ul> </li> </ul>				Min.	Max.	Unit	Notes	-	60	kΩ	Over -40°C to +85°C	-	70	kΩ	Over -40°C to +105°C	-	80	kΩ	Over -40°C to +125°C																				
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<b>Cause/Reason for Change:</b> Abracon introduced additional manufacturing sources to ensure product availability and to be in a better position to meet long term customer demand. Updated electrical specifications to reflect the product produced by all manufacturing sources.																																							
Change Plan																																							
<b>Effective Date:</b> 06/03/2022		<b>Additional Remarks:</b> N/A																																					
<b>Change Declaration:</b> This statement addresses both the electrical changes and the addition of additional manufacturing lines.																																							
<b>Issued Date:</b> 06/03/2022	<b>Issued By:</b> <i>Brooke Cushman</i> Product Engineer	<b>Issued Department:</b> Engineering																																					
<b>Approval:</b> <i>Thomas Culhane</i> Engineering Director	<b>Approval:</b> <i>Reuben Quintanilla</i> Quality Director	<b>Approval:</b> <i>Ying Huang</i> Purchasing Director																																					
For Abracon EOL only																																							
<b>Last Time Buy (if applicable):</b> N/A		<b>Alternate Part Number / Part Series:</b> N/A																																					
<b>Additional Approval:</b>	<b>Additional Approval:</b>	<b>Additional Approval:</b>																																					

**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:**

brand	affected part numbers	series	eco#	datasheet link	ecn notification link
abracon	ABS07AIG-32.768KHZ	ABS07AIG	4317	<a href="https://abracon.com/datasheets/ABS07AIG.pdf">https://abracon.com/datasheets/ABS07AIG.pdf</a>	???
abracon	ABS07AIG-32.768KHZ-1	ABS07AIG	4317	<a href="https://abracon.com/datasheets/ABS07AIG.pdf">https://abracon.com/datasheets/ABS07AIG.pdf</a>	???
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abracon	ABS07AIG-32.768KHZ-6	ABS07AIG	4317	<a href="https://abracon.com/datasheets/ABS07AIG.pdf">https://abracon.com/datasheets/ABS07AIG.pdf</a>	???
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