

ECN/PCN No.: 4317

For Manufacturer																																							
Product Description: Automotive & Industrial Grade 32.768kHz SMD Crystal	Abraccon Part Number / Part Series: 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																																				
Affected Revision: G	New Revision: H	Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety																																					
Prior to Change: Electrical specifications: <ul style="list-style-type: none"> 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>Min.</th> <th>Max.</th> <th>Unit</th> <th>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> Equivalent series resistance (ESR) <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>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> 				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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After Change: Electrical specifications: <ul style="list-style-type: none"> Frequency stability over operating temperature, relative to in-circuit measured frequency post-reflow: <ul style="list-style-type: none"> <i>Specifications removed from datasheet</i> Equivalent series resistance (ESR) <ul style="list-style-type: none"> <i>Specification @ +25±3°C removed from datasheet</i> <i>Remaining specifications revised to below:</i> <table border="1" style="margin-left: 20px; border-collapse: collapse; width: 100%;"> <thead> <tr> <th>Min.</th> <th>Max.</th> <th>Unit</th> <th>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> 				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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Cause/Reason for Change: 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																																							
Effective Date: 06/03/2022	Additional Remarks: N/A																																						
Change Declaration: This statement addresses both the electrical changes and the addition of additional manufacturing lines.																																							
Issued Date: 06/03/2022	Issued By:	Issued Department:																																					
Approval:	Approval:	Approval:																																					
For Abracon EOL only																																							
Last Time Buy (if applicable): N/A	Alternate Part Number / Part Series: N/A																																						
Additional Approval:	Additional Approval:	Additional Approval:																																					

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:**