

## **Engineering/Process Change Notice**

**ECN/PCN No.: 4317** 

For Manufacturer				
Product Description:	Abracon Part Number / Part Series:	☑ Documentation only	Series	
Automotive & Industrial Grade	ABS07AIG	⊠ ECN	☐ Part Number	
32.768kHz SMD Crystal		□ EOL		
Affected Revision:	New Revision:	Application:	☐ Safety	
G	Н		⋈ Non-Safety	

#### **Prior to Change:**

Electrical specifications:

• Frequency stability over operating temperature, relative to in-circuit measured frequency post-reflow:

Min.	Max.	Unit	Notes
-160	-100	ppm	Over $-40^{\circ}$ C to $+85^{\circ}$ C
-250	-100	ppm	Over $-40^{\circ}$ C to $+105^{\circ}$ C
-450	-100	ppm	Over $-40^{\circ}$ C to $+125^{\circ}$ C

• Equivalent series resistance (ESR)

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

#### After Change:

Electrical specifications:

- Frequency stability over operating temperature, relative to in-circuit measured frequency post-reflow:
  - Specifications removed from datasheet
- Equivalent series resistance (ESR)
  - Specification @ +25±3°C removed from datasheet
  - Remaining specifications revised to below:

Min.	Max.	Unit	Notes
-	60	kΩ	Over $-40^{\circ}$ C to $+85^{\circ}$ C
-	70	kΩ	Over $-40^{\circ}$ C to $+105^{\circ}$ C
-	80	kΩ	Over $-40^{\circ}$ C to $+125^{\circ}$ C

### 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:	Additional Remarks:		
06/03/2022	N/A		
<b>Change Declaration:</b> This statement addresses both the el	ectrical changes and the addition of add	litional manufacturing lines.	
Issued Date:	Issued By:	Issued Department:	
06/03/2022	Brooke Cushman Product Engineer	Engineering	
Approval:	Approval:	Approval:	
Thomas Culhane	Reuben Quintanilla	Ying Huang	
Engineering Director	Quality Director	Purchasing Director	
	For Abracon EOL onl	у	
Last Time Buy (if applicable):	Alternate F	art Number / Part Series:	
N/A		N/A	
Additional Approval:	Additional Approval:	Additional Approval:	

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brand	affected part numbers	series	eco#	datasheet link
abracon	ABS07AIG-32.768KHZ	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-1	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-1-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-6	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-6-1-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-6-D-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-6-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-7	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-7-1	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-7-1-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-7-D	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-7-D-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-7-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-9	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-9-1	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-9-1-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-9-4	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768KHZ-9-D	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-9-D-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-9-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-D-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf
abracon	ABS07AIG-32.768kHz-T	ABS07AIG	4317	https://abracon.com/datasheets/ABS07AIG.pdf



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Customer Approval (If Applicable)				
Qualification Status:				
	$\square$ Approved	□ Not accepted		
Note: It is considered approved if	there is no feedback from the c	rustomer 1 month afte	er ECN/PCN is released.	
Customer Part Number:		Customer Project:		
Company Name:	Company Represent	tative:	Representative Signature:	
Customer Remarks:				

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