

Engineering/Process Change Notice

ECN/PCN No.: 3680

	F	'or Manufa	cturer			
Product Description: LOW ESR, LOW CL CERAMIC SMD CRYSTAL	Abracon Part Number / Part Series: ABM12W					⊠ Series □ Part Numbe
Affected Revision: E	New Revision: F			Application:		□ Safety ⊠ Non-Safety
Prior to Change: Electrical Specifications						
	Minimum	Typical	Maximum	Units		Notes
Electrical Specifications Parameters	Minimum	Typical < 90	Maximum 150	Units		Notes - 31.9999MHz
Electrical Specifications	Minimum	• •		Units	24.0000	

After Change: Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Equivalent series resistance "R1" (over Operating Temperature Range)		< 90	150	Ω	24.0000 - 31.9999MHz
		< 80	100		32.0000 - 36.9999MHz
(CL=4pF)		< 60	80		37.0000 - 52.0000MHz
Equivalent series resistance "R1" (over Operating Temperature Range) (CL=6pF, 7pF, 8pF)		< 80	100		24.0000 - 31.9999MHz
		< 60	80	Ω	32.0000 - 36.9999MHz
		< 35	50		37.0000 - 52.0000MHz

Cause/Reason for Change:

Abracon improved product electrical performance for the crystal Equivalent Series Resistance (R1) parameter.

Change Plan			
Effective Date:	Additional Remarks:		
10/05/2020			

Change Declaration:

- All previous (initial release through revision E) Abracon shipments comply with revision F of the ABM12W datasheet.
- All product delivered after the below published effectivity date shall comply with revision F of the ABM12W datasheet.

Issued Date:	Issued By:	Issued Department:
10/05/2020	Brooke Cushman	Engineering
Approval:	Approval:	Approval:
Thomas Culhane	Reuben Quintanilla	Ying Huang
Engineering Director	Quality Director	Purchasing Director

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For Abracon EOL only						
Last Time Buy (if applicable):	Time Buy (if applicable):		Alternate Part Number / Part Series:			
Additional Approval:	Additional Approval:		Additional Approval:			
Customer Approval (If Applicable)						
Qualification Status:						
\Box Approved \Box Not accepted						
Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.						
Istomer Part Number: Customer Project:			:			
Company Name:	Company Representative:		Representative Signature:			
Customer Remarks:						

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