

Engineering/Process Change Notice

ECN/PCN No.: 3682

	F	or Manuf	acturer					
Product Description:		Abracon Part Number / Part Series:				🛛 Serie	es.	
LOW ESR, LOW CL CERAMIC SMD CRYSTAL		ABM10W				🗆 Part	Numbe	
Affected Revision:	New Revis	New Revision:			Application:		ty	
D		E				🛛 Non-	Safety	
Prior to Change: Electrical Specifications Parameters	Minimum	Typical	Maximum	Units	Note	es		
Equivalent series resistance (R1) (over -40°C to +125°C)		< 70	100		16.0000 - 19.9	9999MHz		
		< 50	80	Ω	20.0000 - 29.	.9999MHz		
		< 40	60		30.0000 - 39.9	9999MHz	99MHz	
		< 25	40		40.0000 - 50.0	0000MHz		

After Change:

Electrical Specifications Parameters

	Parameters	Minimum	1 ypicai	Maximum	Units	INOTES
	Equivalent series resistance "R1" (over Operating Temperature Range) (CL=4pF)		< 70	100	Ω	16.0000 - 19.9999MHz
			< 50	80		20.0000 - 29.9999MHz
			< 40	60		30.0000 - 39.9999MHz
			< 25	40		40.0000 - 50.0000MHz
	Equivalent series resistance "R1" (over Operating Temperature Range) (CL=6pF, 7pF, 8pF)		< 50	70	Ω	16.0000 - 19.9999MHz
			< 35	50		20.0000 - 29.9999MHz
			< 30	40		30.0000 - 39.9999MHz
			< 25	30		40.0000 - 50.0000MHz

Cause/Reason for Change:

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

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

Change Declaration:

- All previous (initial release through revision D) Abracon shipments comply with revision E of the ABM10W datasheet.
- All product delivered after the below published effectivity date shall comply with revision E of the ABM10W 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):		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.						
Customer Part Number:		Customer Project:				
Company Name:	Company Representative:		Representative Signature:			
Customer Remarks:						

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