

ECN/PCN No.: 3681

For Manufacturer

Product Description: LOW ESR, LOW CL CERAMIC SMD CRYSTAL	Abracon Part Number / Part Series: ABM11W	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number
Affected Revision: D	New Revision: E	Application: <input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

Prior to Change:
Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Equivalent series resistance (R1) (over -40°C to +125°C)		< 150	200	Ω	16.0000 – 17.9999MHz
		< 80	120		18.0000 – 20.9999MHz
		< 60	100		21.0000 – 29.9999MHz
		< 50	80		30.0000 – 37.9999MHz
		< 30	60		38.0000 – 50.0000MHz

After Change:
Electrical Specifications

Parameters	Minimum	Typical	Maximum	Units	Notes
Equivalent series resistance “R1” (over Operating Temperature Range) (CL=4pF)		< 150	200	Ω	16.0000 – 17.9999MHz
		< 80	120		18.0000 – 20.9999MHz
		< 60	100		21.0000 – 29.9999MHz
		< 50	80		30.0000 – 37.9999MHz
		< 30	60		38.0000 – 50.0000MHz
Equivalent series resistance “R1” (over Operating Temperature Range) (CL=6pF, 7pF, 8pF)		< 120	150	Ω	16.0000 – 17.9999MHz
		< 80	120		18.0000 – 20.9999MHz
		< 60	100		21.0000 – 23.9999MHz
		< 30	50		24.0000 – 29.9999MHz
		< 30	50		30.0000 – 37.9999MHz
		< 30	40		38.0000 – 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:
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Change Declaration:

- All previous (initial release through revision D) Abracon shipments comply with revision E of the ABM11W datasheet.
- All product delivered after the below published effectivity date shall comply with revision E of the ABM11W datasheet.

Issued Date: 10/05/2020	Issued By:	Issued Department:
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Approval:	Approval:	Approval:
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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: <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted <i>Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.</i>			
Customer Part Number:		Customer Project:	
Company Name:	Company Representative:	Representative Signature:	
Customer Remarks:			