

ECN/PCN No.: M1699

For Manufacturer

Product Description: MOLDED INDUCTOR	Abracon Part Number / Part Series: AMELA 2012S	<input type="checkbox"/> Documentation only	<input type="checkbox"/> Series
		<input checked="" type="checkbox"/> ECN	<input checked="" type="checkbox"/> Part Number(s)
Affected Revision: Initial Revision	New Revision: A	Application:	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

Prior to Change:

2.0 Key Standard Electrical Specifications @ 25°C

Part Number*	Inductance (uH)	Tolerance (%)	Irms (A)	Isat (A)	DC Resistance (mΩ)		Type
					Typ	Max	
AMELA2012S-R22MT	0.22	20	10	8.5	11	13	Lead Frame
AMELA2012S-R33MT	0.33	20	5.8	7.0	15	16.5	Lead Frame
AMELA2012S-R47MT	0.47	20	4.8	6.0	20	25	Lead Frame
AMELA2012S-R68MT	0.68	20	3.9	4.6	30	34	Lead Frame
AMELA2012S-1R0MT	1	20	3.7	4.3	38	45	Lead Frame
AMELA2012S-1R5MT	1.5	20	2.9	3.0	53	60	Lead Frame
AMELA2012S-2R2MT	2.2	20	2.4	2.7	78	90	Lead Frame

After Change

Electrical Specifications

Part Number*	Inductance (uH)	Tolerance (%)	Irms (A)	Isat (A)	DC Resistance (mΩ)		Type
					Typ	Max	
AMELA2012S-R33MT	0.33	20	5.8	7.0	15.0	16.5	Lead Frame
AMELA2012S-R47MT	0.47	20	4.8	6.0	20.0	25.0	Lead Frame
AMELA2012S-R68MT	0.68	20	3.9	4.6	30.0	34.0	Lead Frame
AMELA2012S-1R0MT	1	20	3.7	4.3	38.0	45.0	Lead Frame
AMELA2012S-1R5MT	1.5	20	2.9	3.0	53.0	60.0	Lead Frame
AMELA2012S-2R2MT	2.2	20	2.4	2.7	78.0	90.0	Lead Frame

AMELA2012S-R22M has been moved to its own datasheet. Please refer to the performance increase in the electrical parameters table and minor layout changes in the mechanical/recommended layout section. The new datasheet can be found here:

<https://abracon.com/datasheets/AMELA2012S-R22M.pdf>

Cause/Reason for Change:

Updating the -R22 inductor to higher performance requiring different construction. Removing -R22 from AMELA2012S series datasheet and creating independent datasheet for AMELA2012S-R22M.

Change Plan

Effective Date: 12/22/2025	Additional Remarks:	
Change Declaration: There is no change in the form, fit, or function of any device.		
Issued Date: 12/22/2025	Issued By: Gerald Capwell	Issued Department: Engineering
Approval: Gerald Capwell Dir. Of Engineering	Approval: Reuben Quintanilla Quality Director	Approval: Ying Huang Purchasing Director

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:		