

ECN/PCN No.: M1699

For Manufacturer

Product Description: MOLDED INDUCTOR	Abrakon Part Number / Part Series: AMELA 2012S	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input type="checkbox"/> Series <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:**☐ Approved ☐ 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:**