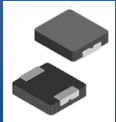


Molded Inductor



AMDLA4012Q

Request Samples



Check Inventory



4.4 x 4.0 x 1.8 mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- Low DCR per cubic mm
- Designed for switching frequencies between 100KHz-5MHz

Applications

- Body electronics and comfort system
- Infotainment and entertainment
- Electric vehicles
- Lighting
- Solar inverters and power
- Industrial and robotics
- Medium and high-power switch mode power supplies.

Electrical Specifications

Part Number*	Inductance (uH)	Tolerance (%)	Irms Max (A)	Isat Max (A)	DC Resistance (mΩ)		Type
					Typ	Max	
AMDLA4012Q-R47MT	0.47	20	3.0	7.0	9.2	17	Lead Frame
AMDLA4012Q-R68MT	0.68	20	3.0	7.0	11.2	21	Lead Frame
AMDLA4012Q-1R0MT	1	20	3.0	7.0	17	21	Lead Frame
AMDLA4012Q-1R5MT	1.5	20	4.0	5.4	26	26	Lead Frame
AMDLA4012Q-2R2MT	2.2	20	4.2	4.2	38	38	Lead Frame
AMDLA4012Q-3R3MT	3.3	20	3.0	3.8	44	55	Lead Frame
AMDLA4012Q-4R7MT	4.7	20	2.2	3.2	57	70	Lead Frame
AMDLA4012Q-6R8MT	6.8	20	2.4	2.6	114	138	Lead Frame
AMDLA4012Q-10MT	10	20	1.8	2.1	170	190	Lead Frame
AMDLA4012Q-150MT	15	20	1.5	1.5	220	275	Lead Frame

Test Conditions

Inductance: 1 V, 0 Adc

Humidity Range: 5% RH

Temperature Rise: current measured when ΔT of 40°C

Saturation Current: current measured when ΔL of 30%

General Specifications

Operating Temperature: -55°C to +125°C with (40°C rise) Irms current.

Maximum Part Temperature: +125°C

Components Storage Temperature: -55°C to +125°C

Tape and Reel packaging Temperature: <35°C

AMDLA4012Q series is **RoHS/ RoHS II Compliant and Pb free.**

Moisture Sensitivity Level (MSL) – Level 1

AEC-Q200 Qualified



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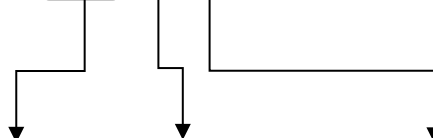
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RoHS/RoHS II Compliant
MSL Level = 1

Part Identification

AMDLA4012Q -

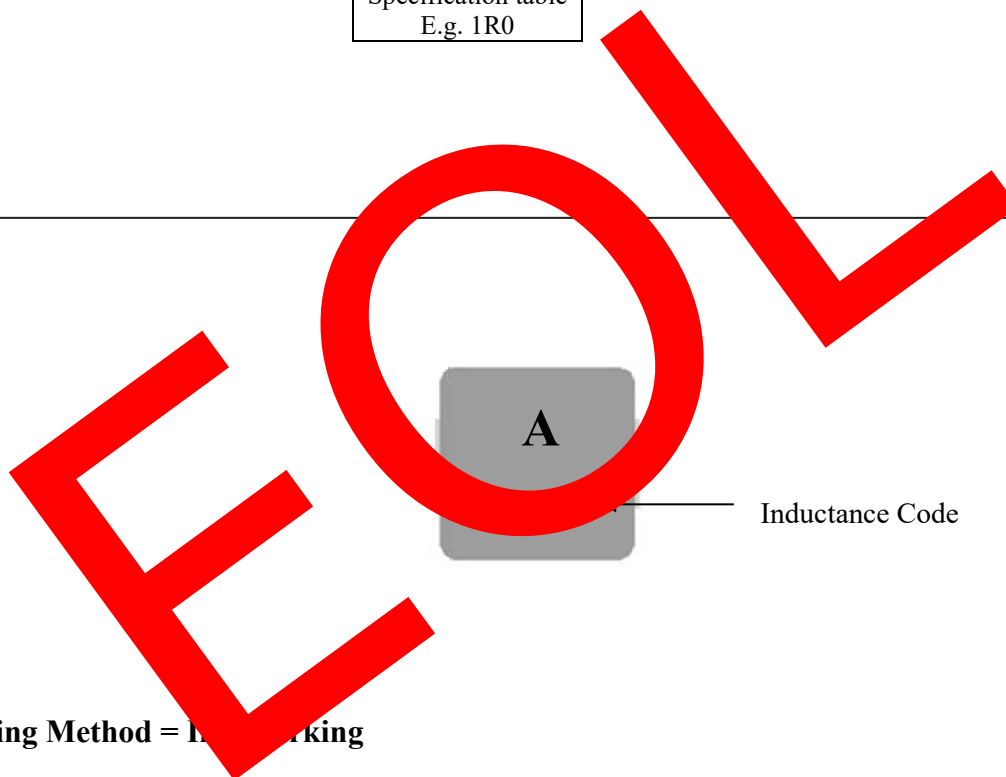


Inductance Code
Refer to Electrical Specification table E.g. 1R0

Tolerance
M: 20%

Packaging
T: 3,000 pcs/reel

Marking



Marking Method = Inductance Marking

Molded Inductor



AMDLA4012Q

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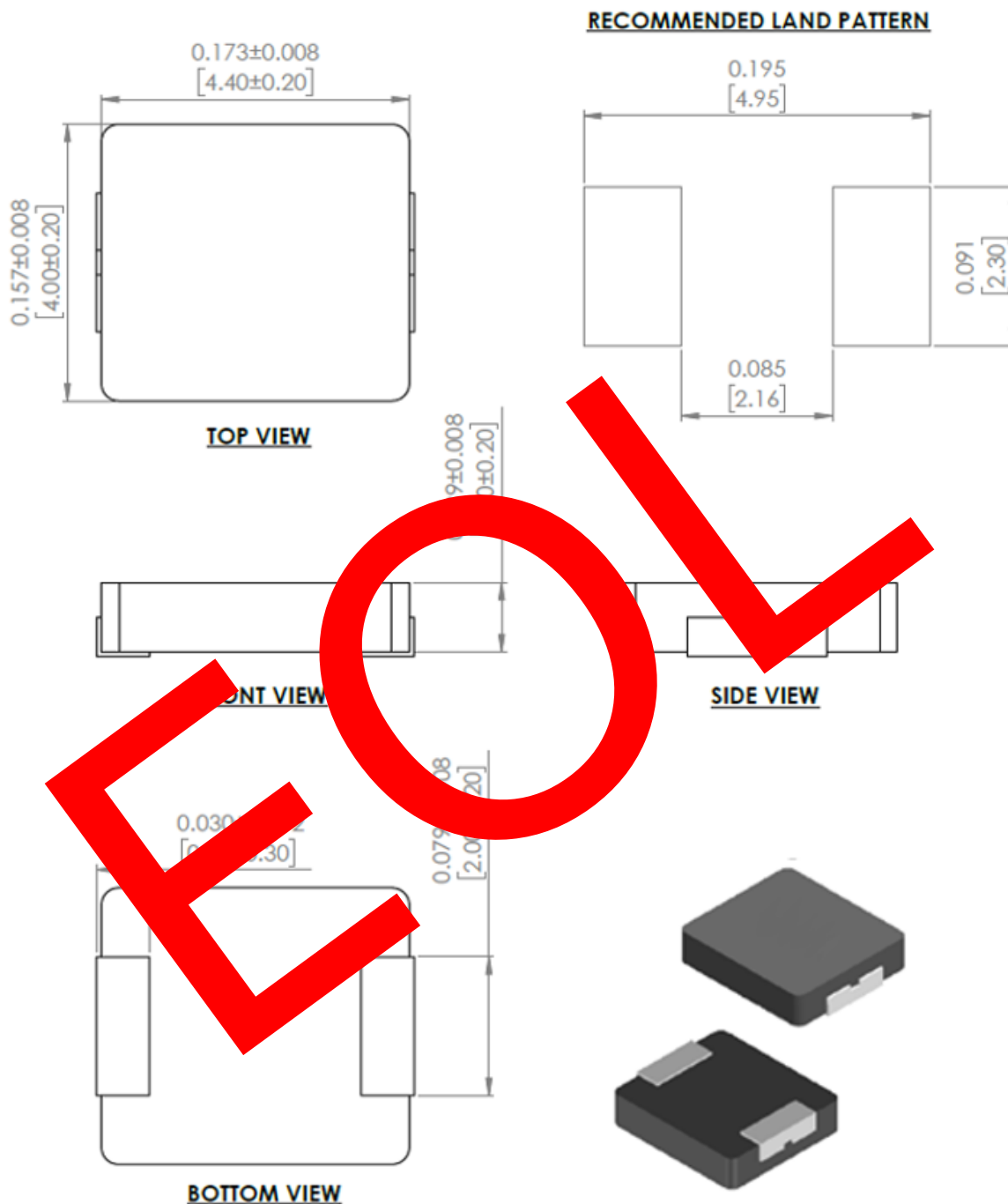


Check Inventory



4.4 x 4.0 x 1.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



Dimensions: inch/[mm]

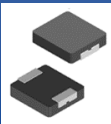


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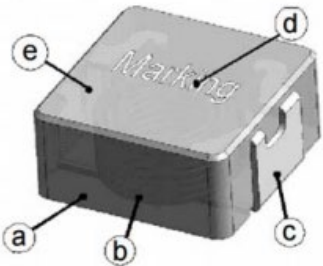


Check Inventory



4.4 x 4.0 x 1.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Material Specifications



- (a) Core
- (b) Wire
- (c) Terminal
- (d) Ink
- (e) Paint

Core	Metal Alloy
Wire	Copper
Terminal	Tin plating
Ink	Black
Paint	No Paint

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AMDLA4012Q

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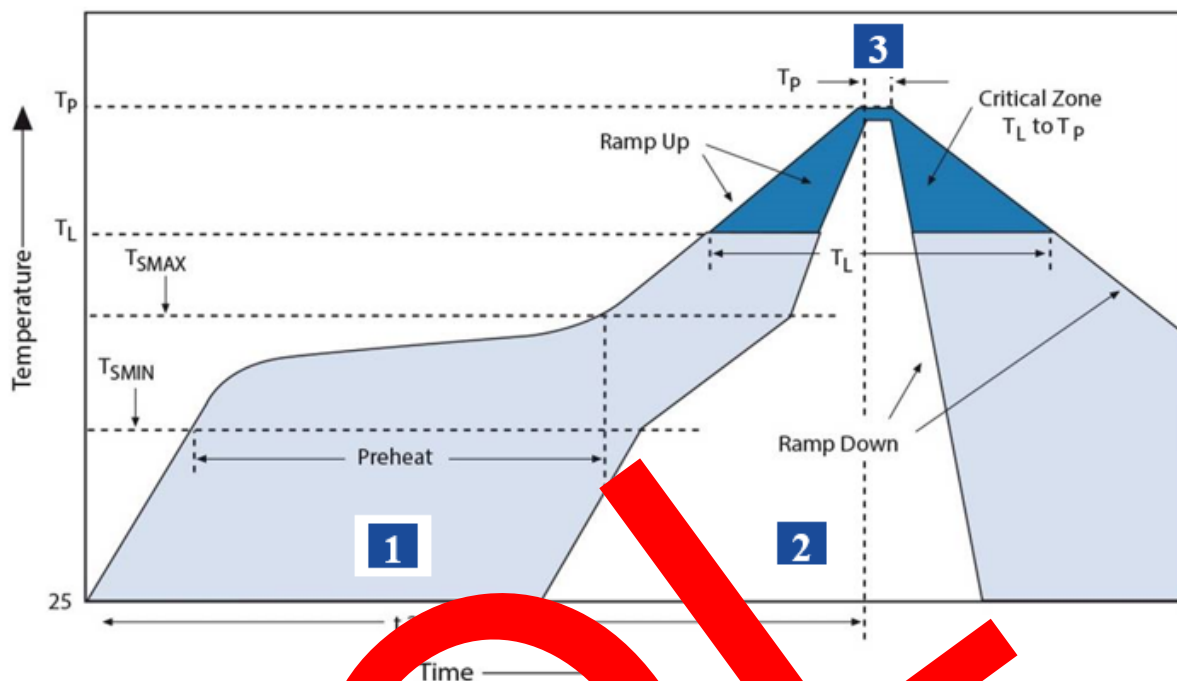


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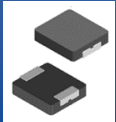
4.4 x 4.0 x 1.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{S\text{MIN}} \sim T_{S\text{MAX}}$ $150^\circ\text{C} \sim 235^\circ\text{C}$	60 ~ 120 sec.
2	Reflow	T_P 235°C	30 ~ 40 sec.
3	Peak heat	T_P $235^\circ\text{C} \pm 0/-5^\circ\text{C}$	10 sec. MAX

Molded Inductor



AMDLA4012Q

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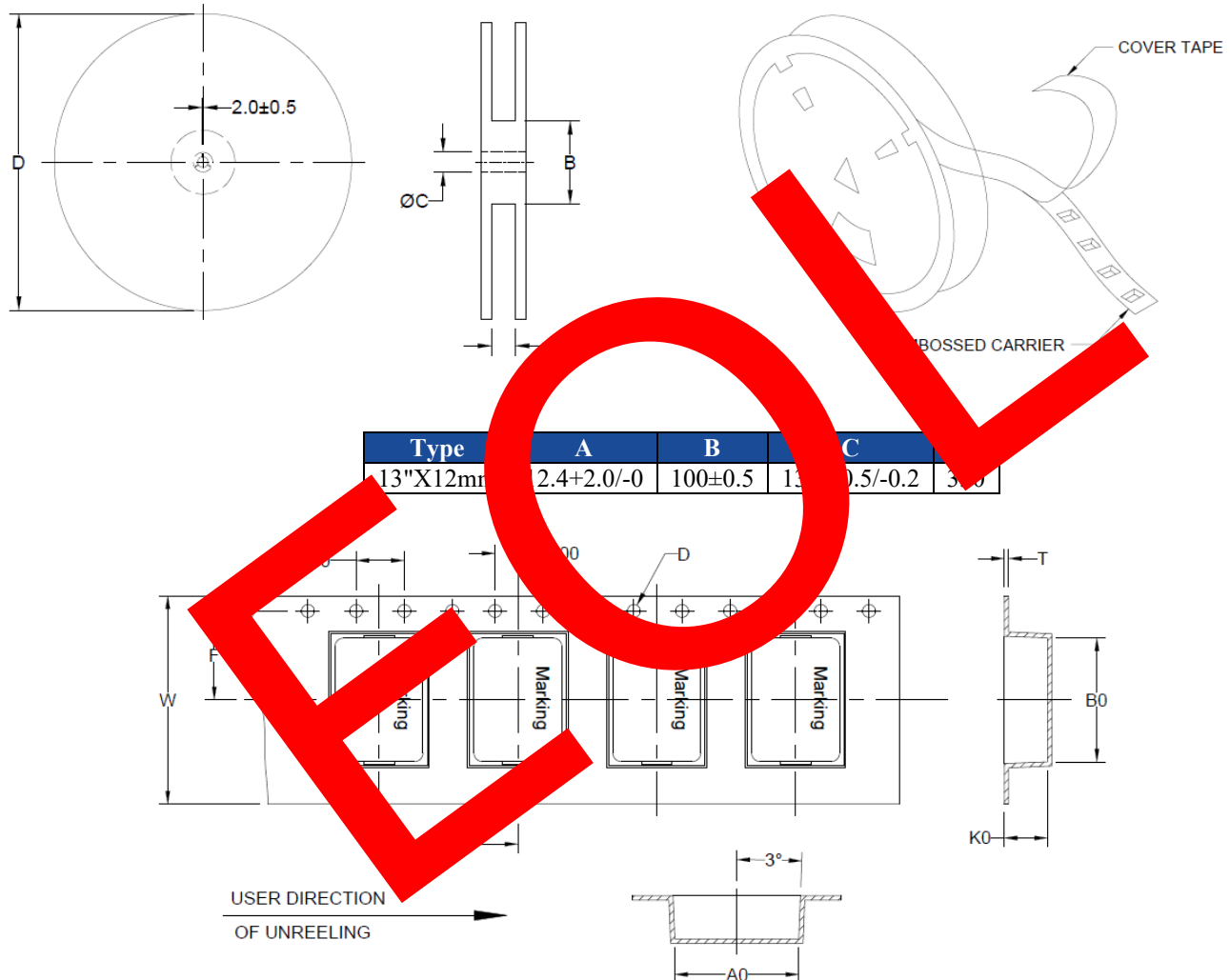
Check Inventory



4.4 x 4.0 x 1.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape and Reel: 3,000



B_0	A_0	K_0	P	W	F	T	D
4.85 ± 0.10	4.45 ± 0.10	1.40 ± 0.10	8.00 ± 0.10	12.00 ± 0.30	3.50 ± 0.10	0.30 ± 0.05	1.50

Dimensions: mm

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