

AMDLA4530Q

Request Samples



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4.9 x 4.7 x 2.8 mm RoHS/RoHS II Compliant MSL Level = N/A

Features

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- Low DCR per cubic mm
- Designed for switching frequencies between 100KHz-2MHz

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	Isat	DC Resistance (mΩ)		Туре	
	(u11)	(70)	(A)	(A)	Тур	Max		
AMDLA4530Q-R10NT	0.10	30	32	32	1.8	2.1	Lead Frame	
AMDLA4530Q-R12NT	0.12	30	30	30	2.0	2.3	Lead Frame	
AMDLA4530Q-R22MT	0.22	20	18	17	2.8	3.2	Lead Frame	
AMDLA4530Q-R47MT	0.47	20	16	11	5.5	6.4	Lead Frame	
AMDLA4530Q-R68MT	0.68	20	12	9.0	7.0	8.4	Lead Frame	
AMDLA4530Q-1R0MT	1	20	8.5	8.5	12.8	13.8	Lead Frame	
AMDLA4530Q-1R2MT	1.2	20	7.2	7.6	14	16	Lead Frame	
AMDLA4530Q-1R5MT	1.5	20	6.6	6.3	16	21	Lead Frame	
AMDLA4530Q-2R2MT	2.2	20	6.0	5.7	23	27.6	Lead Frame	
AMDLA4530Q-3R3MT	3.3	20	5.5	5.0	30	36	Lead Frame	
AMDLA4530Q-4R7MT	4.7	20	5.0	4.0	43	52	Lead Frame	

^{*} Please refer to Part Identification Section

Test Conditions

Inductance: 100 KHz, 1 V, 0 Adc **Humidity Range:** 85 ± 2% RH

Temperature Rise Current: 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: -55°C to +80°C

AMDLA4530Q series is RoHS/ RoHS II Compliant and Pb free.

Moisture Sensitivity Level (MSL) – Level 1

AEC-Q200 Qualified





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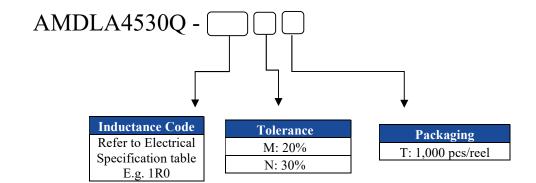


Check Inventory (>)

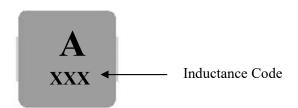


4.9 x 4.7 x 2.8 mm **RoHS/RoHS II Compliant** MSL Level = N/A

Part Identification



Marking



Marking Method = Ink Marking 11.1





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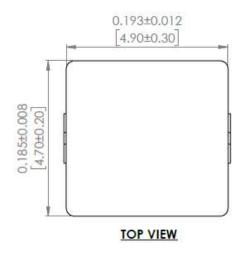


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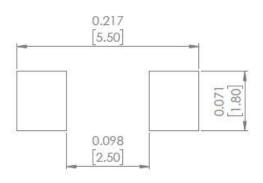


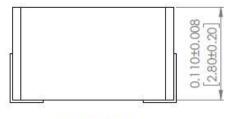
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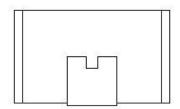
Mechanical Specifications



RECOMMENDED LAND PATTERN

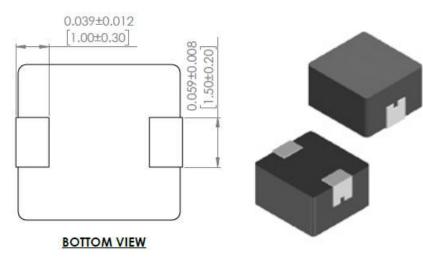






FRONT VIEW

SIDE VIEW



Dimensions: inch/[mm]





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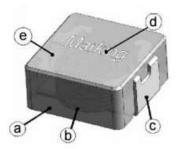


Check Inventory (>)



4.9 x 4.7 x 2.8 mm RoHS/RoHS II Compliant MSL Level = N/A

Material Specifications



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

a	Core	Metal Alloy
b	Wire	Copper
c	Terminal	Tin plating
d	Ink	Black
e	Paint	No Paint





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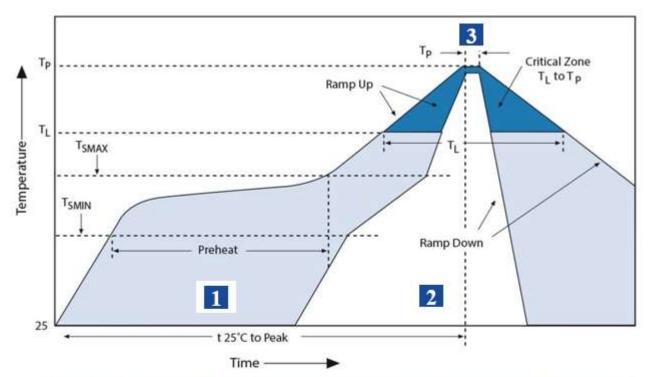


Check Inventory (>)



4.9 x 4.7 x 2.8 mm RoHS/RoHS II Compliant MSL Level = N/A

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T _L 217°C	60 ~ 150 sec.
3	Peak heat	Tp 260°C	10 sec. MAX





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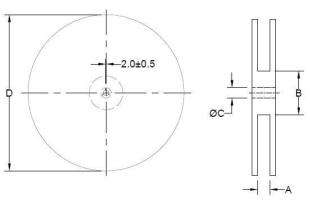
Check Inventory (>)



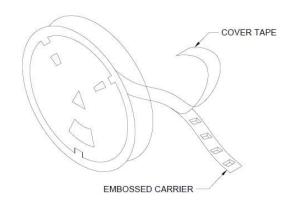
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Packaging

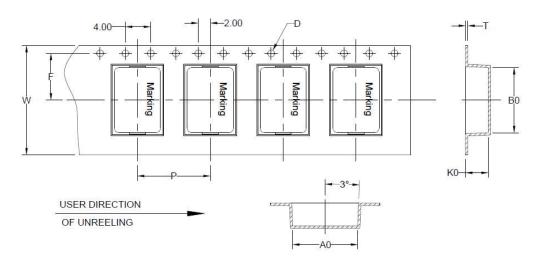




1,000



Type	A	В	C	D
13" x 16 mm	16.4 +2/-0	100 ± 2.0	13.0 +0.5/-0.2	330



\mathbf{B}_0	\mathbf{A}_{0}	\mathbf{K}_{0}	P	W	F	T	D
5.3 ± 0.1	5.0 ± 0.1	3.3 ± 0.1	12.0 ± 0.1	16.0 ± 0.3	5.5 ± 0.1	0.35 ± 0.05	1.5 ± 0.1

Dimensions: mm

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1.0 Note

- i) The parts are manufactured in accordance with this specification. If other conditions and specifications which are required for this specification, please contact ABRACON for more information.
- ii) ABRACON will supply the parts in accordance with this specification unless we receive a written request to modify prior to an order placement.
- iii) In no case shall ABRACON be liable for any product failure from in appropriate handling or operation of the item beyond the scope of this specification.
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- 3. Payment Terms: For each shipment, AB will invoice Buyer for the price of the Products plus all applicable taxes, packaging, transportation, insurance and other charges. Unless otherwise stated in a separate agreement or in AB's quotation, payments are due within thirty (30) days from the date of invoice, subject to AB's approval of Buyer's credit application. All invoicing disputes must be submitted in writing to AB within ten (10) days of the receipt of the invoice accompanied by a reasonably detailed explanation of the dispute. Payment of the undisputed amounts shall be made timely. AB reserves the right to require payment in advance or C.O.D. and otherwise modified credit terms. When partial shipments are made, payments for such shipments shall become due in accordance with the above terms upon submission of invoices. If, at the request of Buyer, shipment is postponed for more than thirty (30) days, payment will become due thirty days after notice to Buyer that Products



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- 7. Packing: Packaging shall be AB's standard shipping materials or as specified on the face hereof. Any cost of non-standard packaging and handling requested by Buyer shall be abided by AB provided Buyer gives reasonable prior notice and agrees in writing to pay additional costs.
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- 9. Specifications: Specifications for each Product are the specifications specified in the published datasheets of such Product, as of the date of AB's quotation (the "Specifications"). Except as otherwise agreed, AB reserves the right to modify the Specifications at any time without adversely affecting the functionality.
- 10. Acceptance: Unless Buyer notifies AB in writing within ten (10) days from the date of receipt of Products that the Products fail to conform to the Specifications, the Products will be deemed accepted by Buyer. No such claim of non-conformity shall be valid if (i) the Products have been altered, modified or damaged by Buyer, (ii) the rejection notice fails to explain the nonconformance in reasonable detail and is not accompanied by a test report evidencing the non-conformity, or (iii) rejected Products are not returned to AB within thirty (30) days of rejection; provided, that no Product returns may be made without a return material authorization issued by AB.
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REVISED: 08-09-19