

AEC-Q200 Automotive Mini Molded Power Inductor



AOTA-C322512Q

Request Samples



Check Inventory



3.2 x 2.5 x 1.2mm

RoHS/RoHS II Compliant

MSL Level = 1

Features

- PPAP ready and supported
- TS16949 certified production lines
- AEC-Q200 Grade 0 qualified (-55°C ~ +155°C)
- Shielded construction
- Soft saturation
- Low DCR, High Efficiency
- High temperature current rating

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	Tolerance	DC Resistance		Saturation Current		Temperature Rise Current	
	1MHz/1.0V		Typ.	Max	Typ.	Max	Typ.	Max
Units	μH	%	mΩ		A		A	
Symbol	L	M	DCR		Isat		Irms	
AOTA-C322512Q4R7	4.7	20	115	135	2.9	2.6	2.3	2.0
AOTA-C322512Q100	10.0	20	210	230	2.3	1.9	2.2	1.8

*For complete part numbers, please refer to the Part Identification section.

Test Conditions

Isat: DC current at which the inductance drops 30% from its initial value.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 25°C ambient.

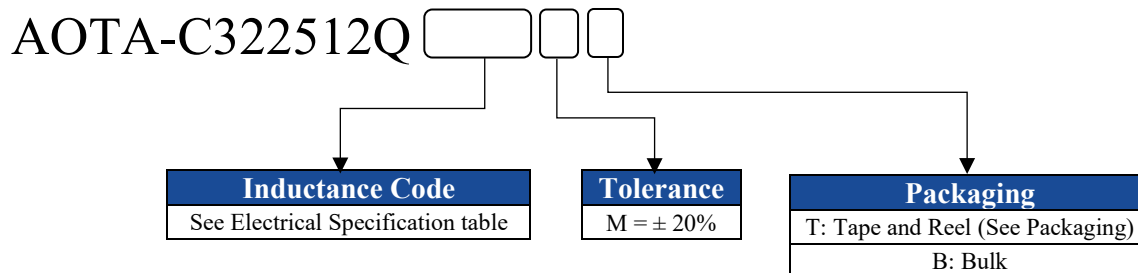
Operating Temperature: -55°C ~ +155°C (including self-temperature rise)

Storage Condition: -55°C ~ +155°C (on board), -10°C ~ +40°C (with packaging) and R.H. 70% max.

AOTA-C322512Q Series is **RoHS Compliant and Pb free**.

AOTA-C322512Q is AEC-Q200 Automotive qualified (Grade 0)

Part Identification



12117 Bee Caves Rd Bldg-3, Ste 200
Bee Cave, TX 78738
Phone: 512-371-6159 | Fax: 512-351-8858
For terms and conditions of sales, please visit:
www.abracon.com

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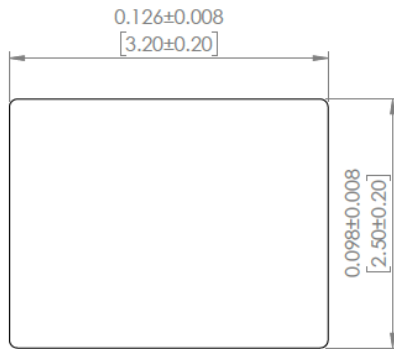


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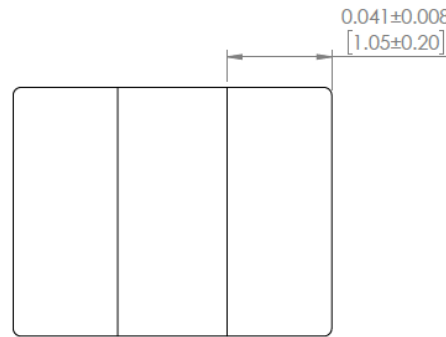


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Mechanical Specifications



TOP VIEW

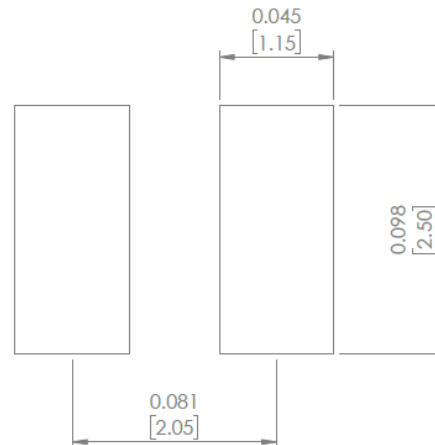


BOTTOM VIEW

Recommended Land Pattern



FRONT VIEW



Dimensions: Inches[mm]



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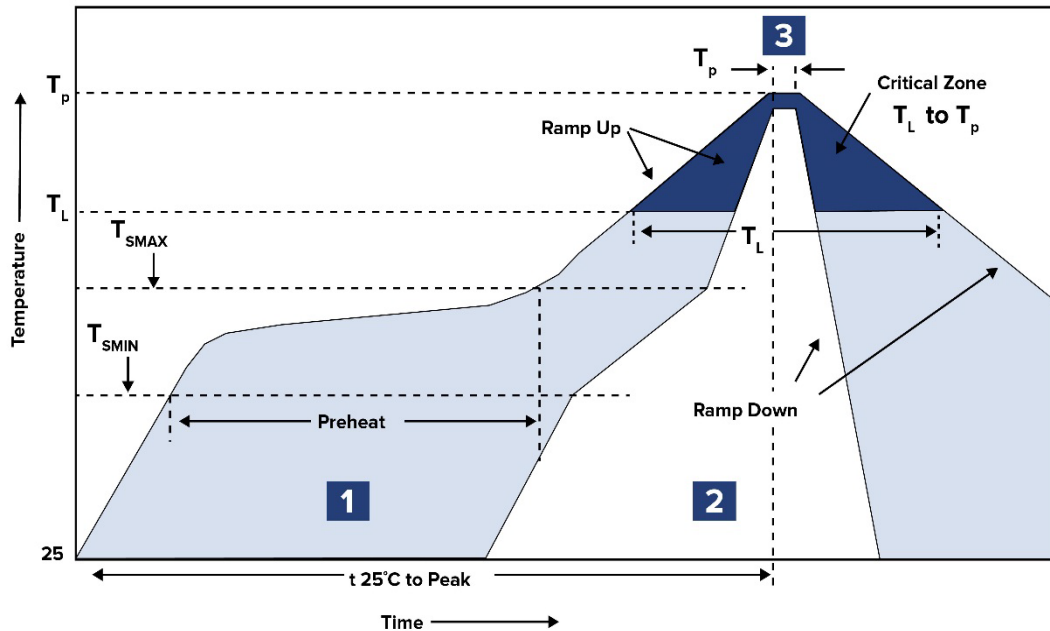


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T _L 230°C	40 sec. Max
3	Peak heat	T _p 250°C	5 sec. MAX

Ref. solder paste: Sn/3.0Ag/0.5Cu

Ramp up rate: 3°C/s Max.

Ramp down rate: 6°C/s Max.

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