

Automotive Stacked Inductor



AMSLA-Q7050

Request Samples



Check Inventory



7.0 x 7.0 x 5.0 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- AEC-Q200 Qualified
- Shielded construction
- Soft saturation
- High Power Density
- Low DCR, High Efficiency
- Designed for switching frequencies between 100KHz-2MHz

Applications

- Desktop/ Server applications
- High current point-of-load (POL) converters
- 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
	0.1MHz/1V		Max	Max	Max
Units	nH	%	mΩ	A	A
Symbol	L	M	DCR	Isat	Irms
AMSLA-Q7050-R07	72	20	0.35	58	45
AMSLA-Q7050-R10	105	20	0.35	46	45
AMSLA-Q7050-R15	150	20	0.35	30	45

Test Conditions

Isat: DC current at which the inductance drops 20% from its value without current.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 20°C ambient

Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

Storage Condition: -40°C ~ +125°C (on board), -10°C ~ +40°C (with packaging), and R.H. 60 max

Operating Voltage: 40V (across inductor)

AMSLA-Q7050 is **RoHS Compliant and Pb free**.

AMSLA-Q7050 is **AEC-Q200 Qualified**.

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Part Number Identification

AMSLA – Q7050 – –

Inductance Code

See Electrical Specification table

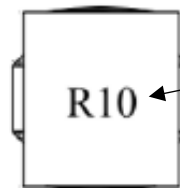
Tolerance

M = $\pm 20\%$

Packaging

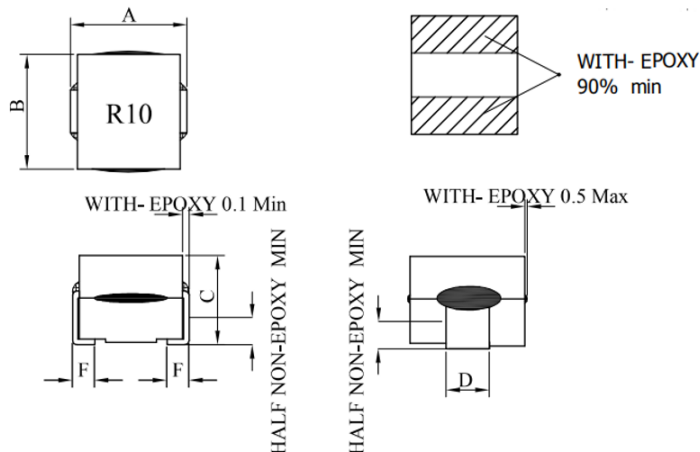
T: Tape and Reel (1000 pcs / reel)

Marking



Inductance Code

Mechanical Specifications



A	B	C	D	F
7.0 MAX	7.0 MAX	5.0 MAX	2.5 \pm 0.3	1.3 \pm 0.2

L	G	H
7.3 Ref.	3.3 Ref.	3.0 Ref.

Dimensions: mm



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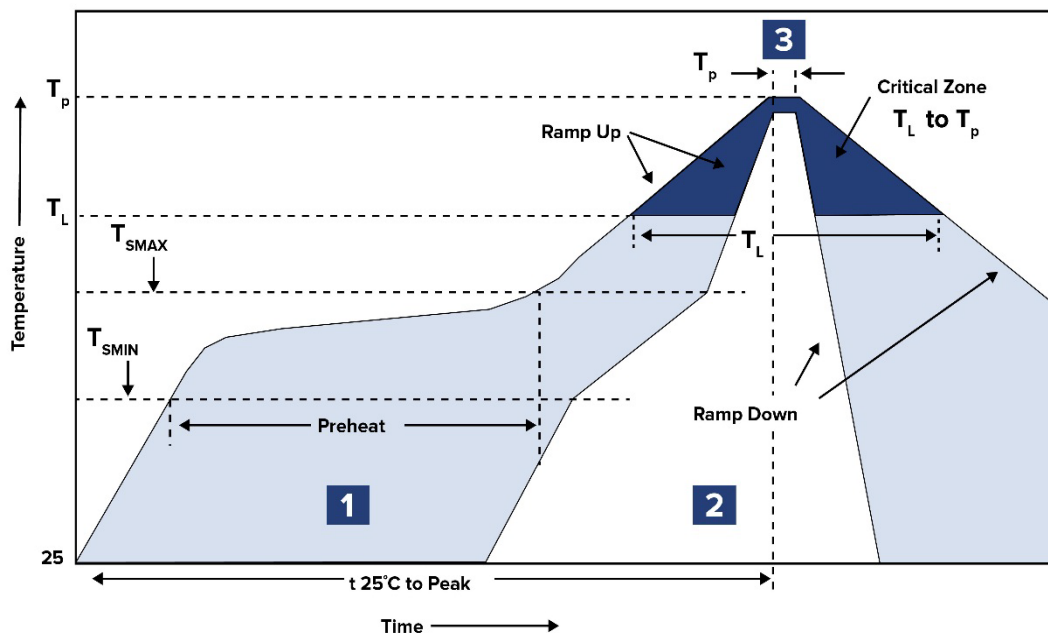


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T_L 217°C	60 ~ 150 sec.
3	Peak heat	T_p 245°C	10 sec. MAX

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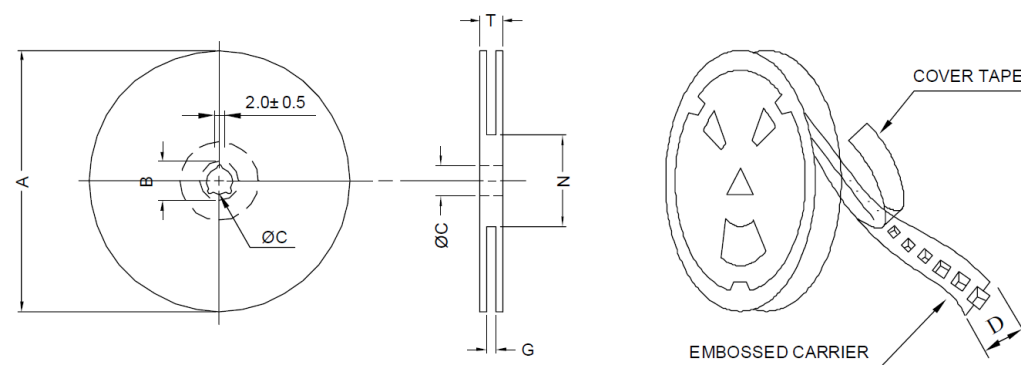
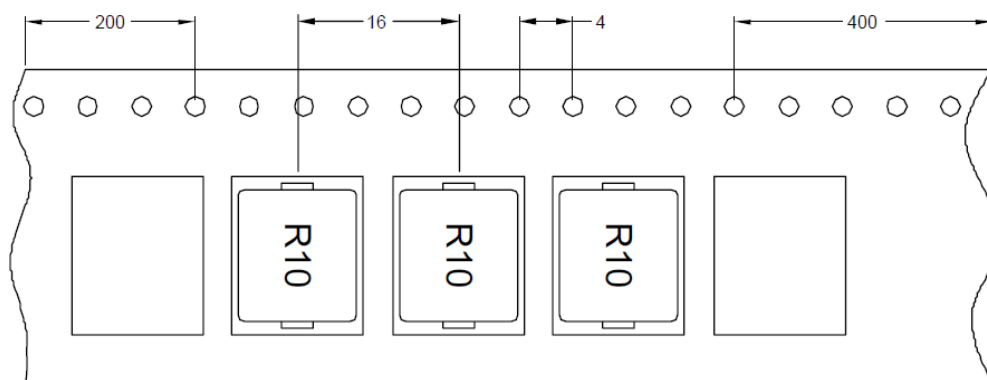
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Packaging

Tape & Reel: 1000 pcs/reel



A	B	C	D	G	N	T
330	21 ±0.8	13.0±0.5	16.0	18.0 Max	50.0 Min	22.4

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