

AMSLA-Q7050

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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: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (including self-temperature rise)

Storage Condition: $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$ (on board), $-10^{\circ}\text{C} \sim +40^{\circ}\text{C}$ (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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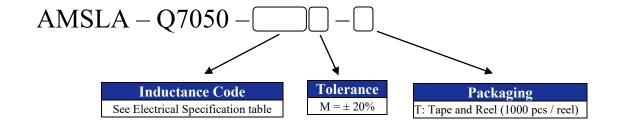


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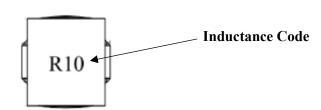


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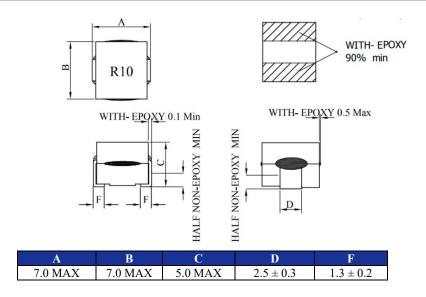
Part Number Identification

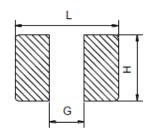


Marking



Mechanical Specifications





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

Dimensions: mm



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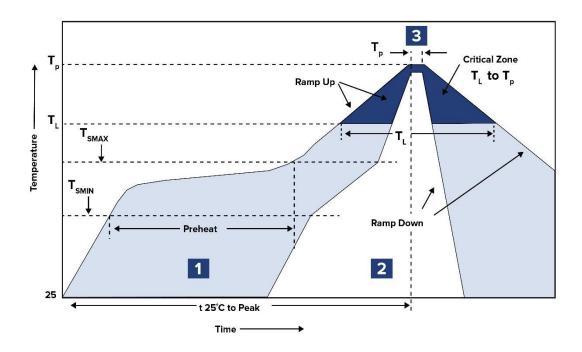


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Reflow Profile



| Zone | Description | Temperature | Times | |
|------|-------------|--|----------------------------|--|
| 1 | Preheat | $T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C$ | $60 \sim 120 \text{ sec.}$ | |
| 2 | Reflow | T _L 217°C | $60 \sim 150 \text{ sec.}$ | |
| 3 | Peak heat | T _P 245°C | 10 sec. MAX | |





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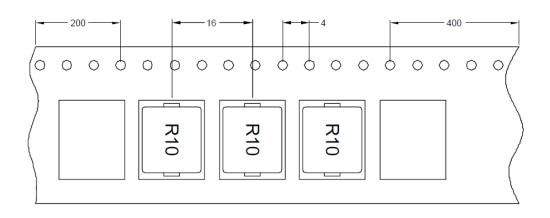
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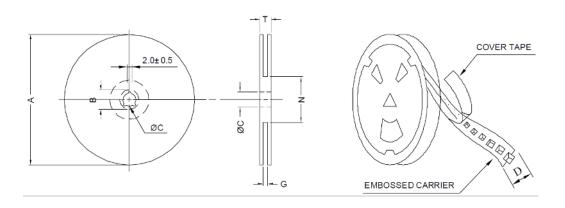


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Packaging

Tape & Reel: 1000 pcs/reel





| A | В | 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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