

Features

- 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 0.1MHz/1V	Tolerance	DC Resistance Max	Saturation Current Max	Temperature Rise Current Max	Package Height
Units	nH	%	mΩ	Α	Α	mm
Symbol	L	J, K, M	DCR	Isat	Irms	С
AMSLA-1070-150N	150	20	0.41	70	70	7.0 Max
AMSLA-1070-170N	170	15	0.29	60	61	7.3±0.3
AMSLA-1070-215N	215	10	0.29	44	61	7.3±0.3
AMSLA-1070-310N	310	20	0.48	32	51	7.0 Max

Test Conditions

Isat: DC current at which the inductance drops 20% (30% for 170N and 215N) from its value without current.

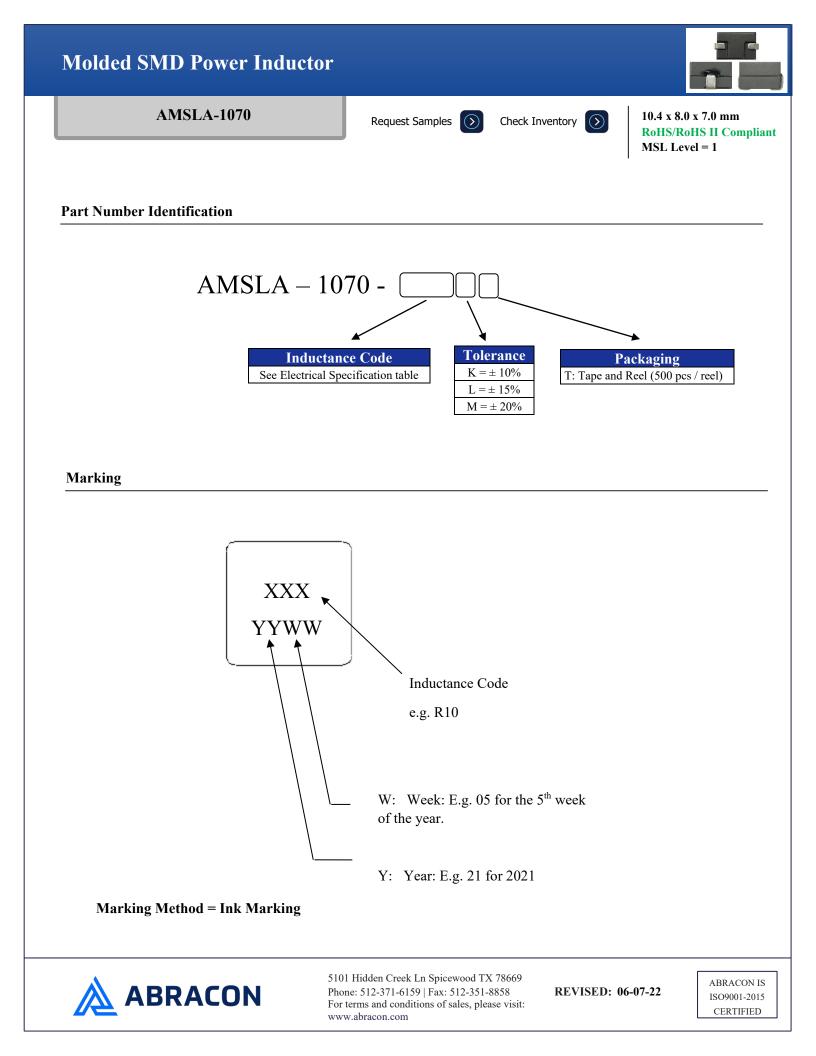
Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 20°C ambient

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-1070 Series is RoHS Compliant and Pb free AMSLA-1070 is commercial grade.**

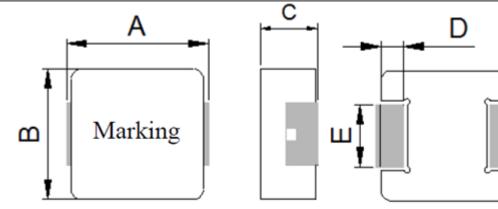


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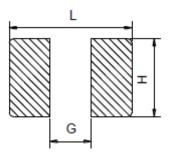
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Series	Α	В	С	D	E
AMSLA-1070	10.4 Max	8.0 Max	See Electrical Specifications table	2.54 ± 0.3	2.3 ± 0.2



L	G	H
10.90 Ref.	4.32 Ref.	2.79 Ref.

Dimensions: mm

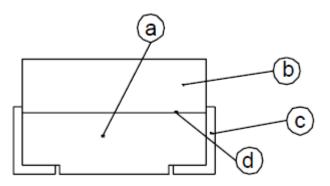


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Materials

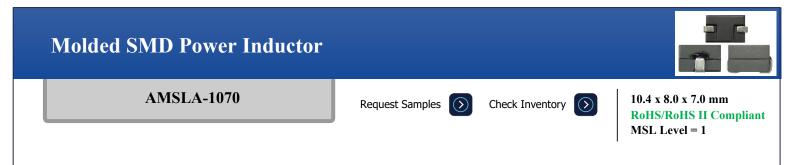


	Components	Material
а	Core	Manganese-Zinc Ferrite
b	Core	Manganese-Zinc Ferrite
с	Electrode	Nickel-Tin
d	Adhesive (Top)	KAA11700xx (Black)
e	Adhesive (Bottom)	6030H (Black)

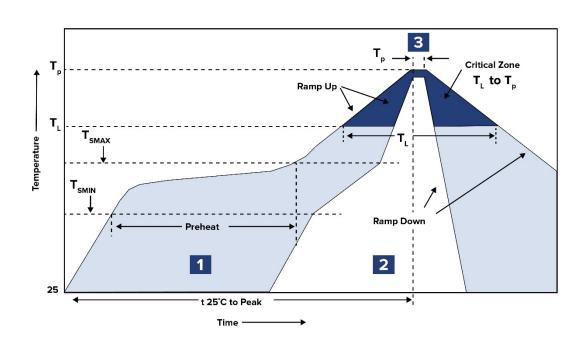


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Reflow Profile

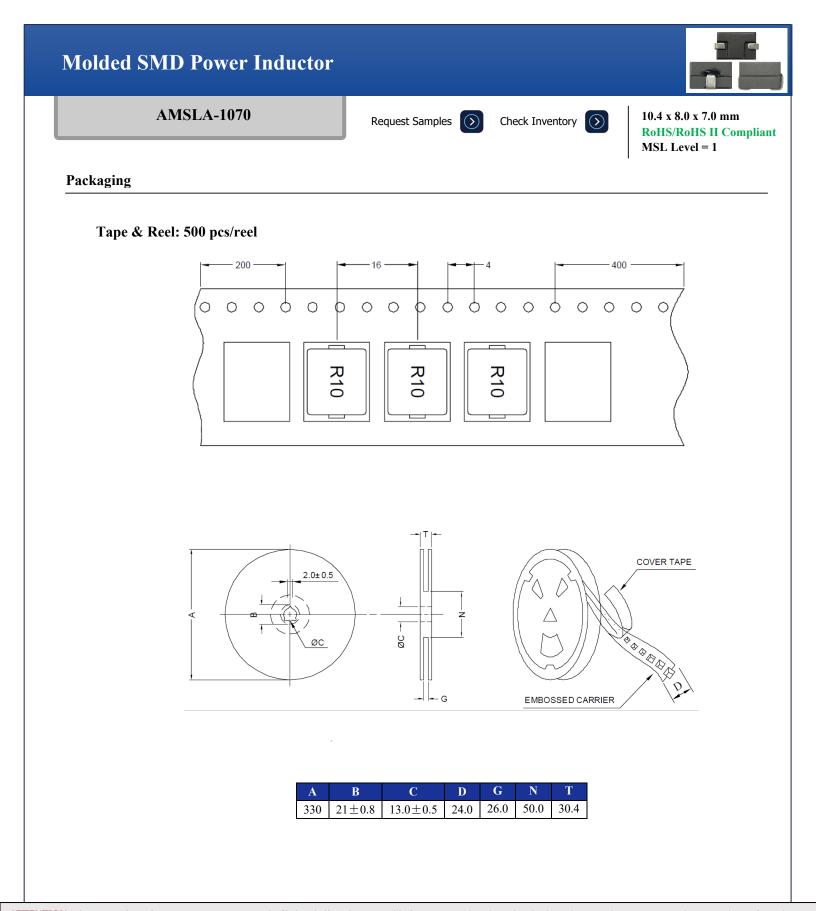


Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	TL 217°C	$60 \sim 150$ sec.
3	Peak heat	Тр 260°С	10 sec. MAX



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