

#### **AMSLA-1070**

Request Samples



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10.4 x 8.0 x 7.0 mm RoHS/RoHS II Compliant MSL Level = 1

#### **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	Tolerance	DC Resistance	Saturation Current	Temperature Rise Current	Package Height
	0.1MHz/1V		Max	Max	Max	
Units	nH	%	m $\Omega$	$\mathbf{A}$	A	mm
Symbol	L	J, K, M	DCR	Isat	Irms	C
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:**  $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$  (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.





**AMSLA-1070** 

Request Samples (3)

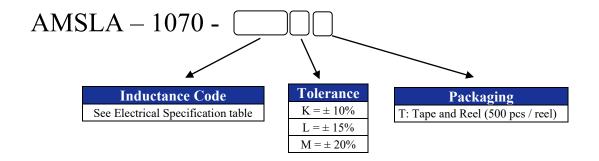


Check Inventory (S)

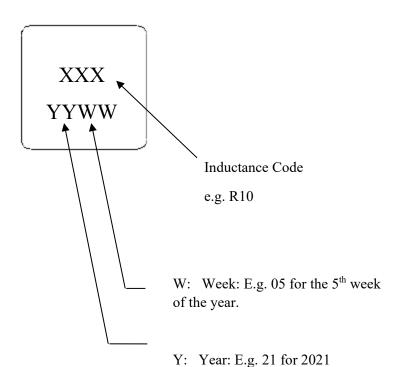


10.4 x 8.0 x 7.0 mm **RoHS/RoHS II Compliant** MSL Level = 1

#### **Part Number Identification**



### **Marking**



Marking Method = Ink Marking



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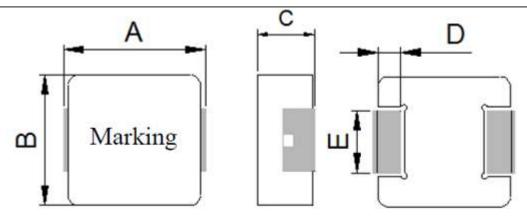


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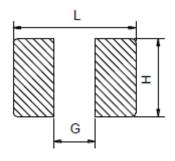


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### **Mechanical Dimensions**



Series	A	В	C	D	E
AMSLA-1070	10.4 Max	8.0 Max	See Electrical Specifications table	$2.54 \pm 0.3$	$2.3\pm0.2$



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

**Dimensions: mm** 





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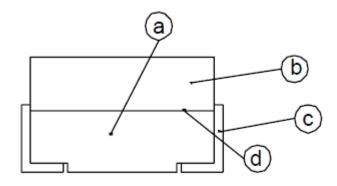


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### Materials



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





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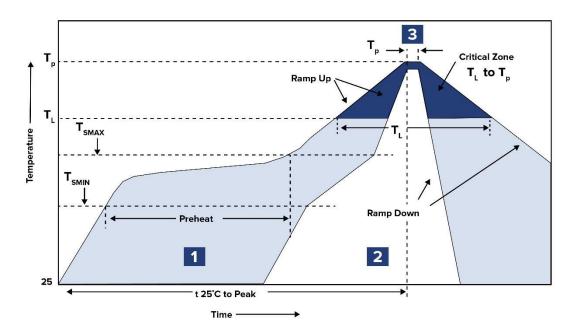


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### **Reflow Profile**



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 <sub>L</sub> 217°C	60 ~ 150 sec.	
3	Peak heat	Т <sub>Р</sub> 260°С	10 sec. MAX	





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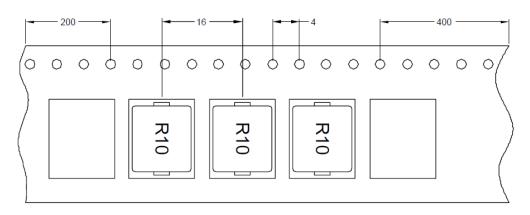
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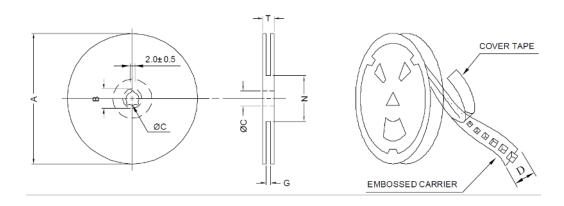


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### **Packaging**

Tape & Reel: 500 pcs/reel





		C				
330	$21 \pm 0.8$	$13.0 \pm 0.5$	24.0	26.0	50.0	30.4

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