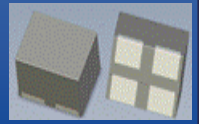


Multi-Phase Molded Power Inductor



AVR-2M100706S

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9.7 x 7.0 x 5.7 mm
RoHS/RoHS II Compliant
 MSL Level = 1

Features

- Metal Alloy
- Low DCR, High Efficiency
- High temperature-rise current rating
- High saturation current rating

Applications

- Multiphase DC-DC converters
- Voltage regulator modules (VRMs)
- Renewable energy, Power inverters, DC links
- Telecom infrastructure, datacenters, servers and switches
- Industrial and robotics equipment
- Medium and high-power switch mode power supplies (SMPS)

Electrical Specifications @ 25°C

Part Number*	Inductance	Inductance Tolerance	DC Resistance		Saturation Current		Temperature Rise Current		Coupling Coefficient
	100KHz/1.0V		Typ.	Max.	Max.	Typ.	Max.	Typ.	
Units	nH	%	mΩ		A		A		
Symbol	L	M	DCR		Isat		Irms		
AVR-2M100706S60NM	60.0	±20%	0.13	0.15	92.0	105.0	64.0	74.0	0.05
AVR-2M100706S70NM	70.0	±20%	0.13	0.15	82.0	95.0	62.0	72.0	0.05
AVR-2M100706S80NM	80.0	±20%	0.14	0.16	78.0	90.0	60.0	70.0	0.05
AVR-2M100706S85NM	85.0	±20%	0.14	0.16	75.0	88.0	58.0	68.0	0.05
AVR-2M100706SR12M	120.0	±20%	0.22	0.26	52.0	60.0	50.0	54.0	< 0.1

*For full orderable part number, please refer to the [Part Identification](#) section.

Test Conditions:

Test Frequency: 1.0V/100KHz

Isat: DC current at which the inductance drops 30% from its nominal value at 25°C.

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

Operating Voltage: 25V

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. 85% max.

AVR-2M100706S Series is RoHS Compliant and Pb free.

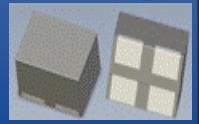


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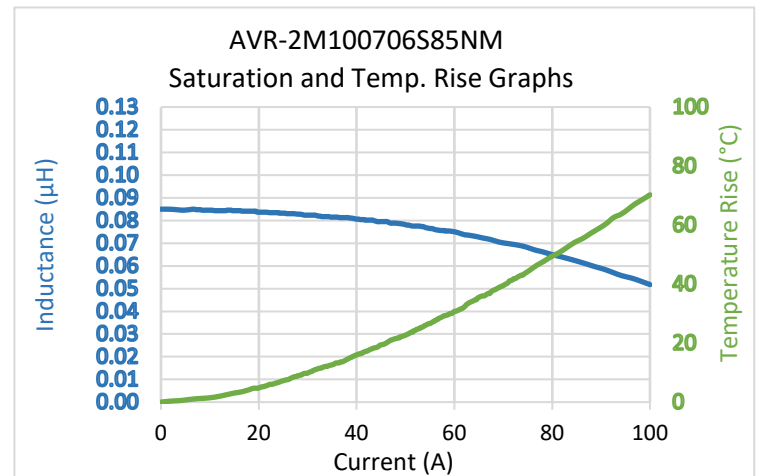
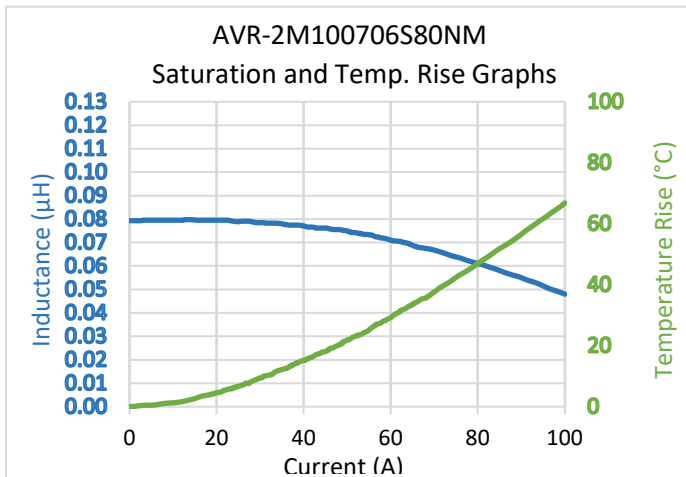
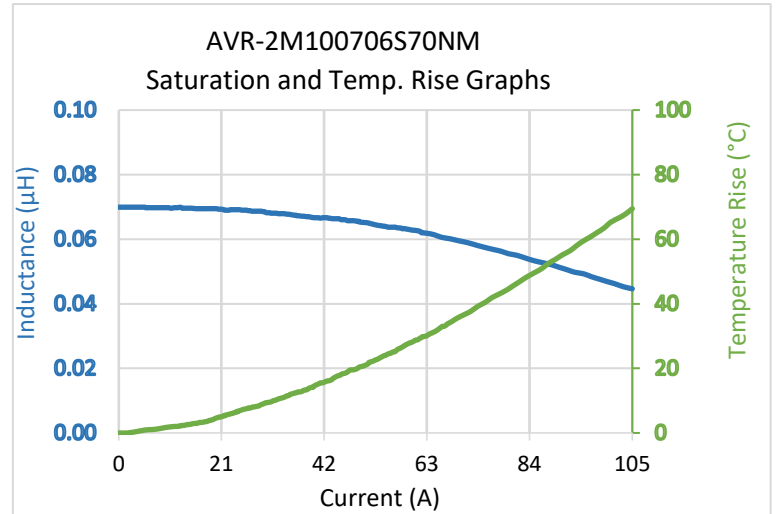
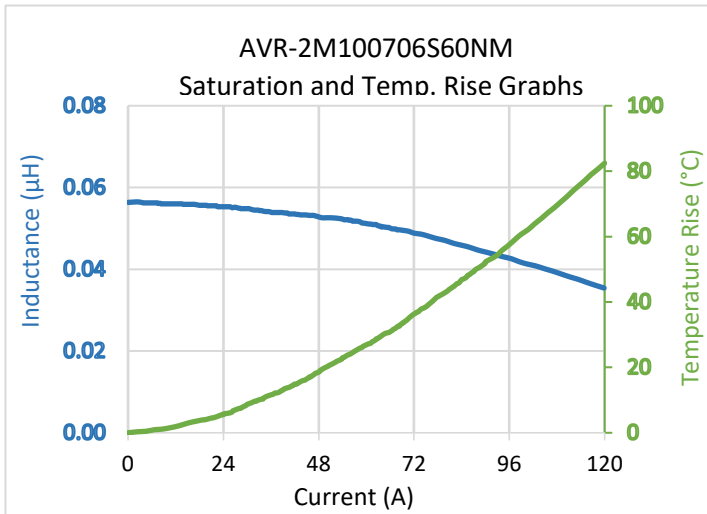


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 MSL Level = 1

Performance Graphs:

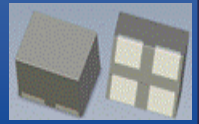


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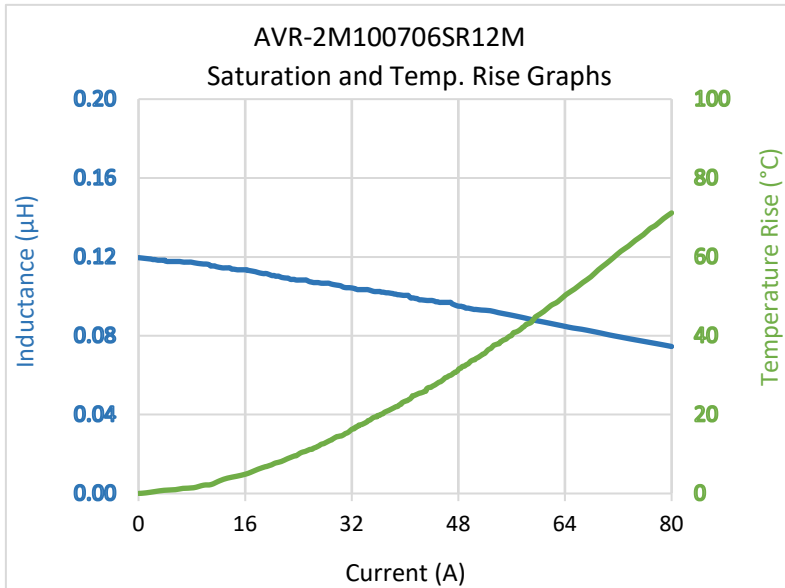
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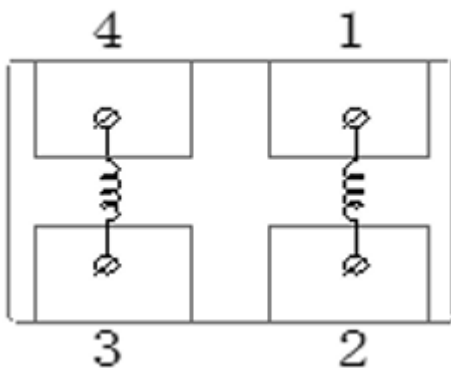
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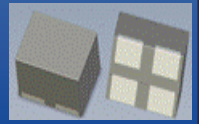
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RoHS/RoHS II Compliant
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Schematic:



Multi-Phase Molded Power Inductor



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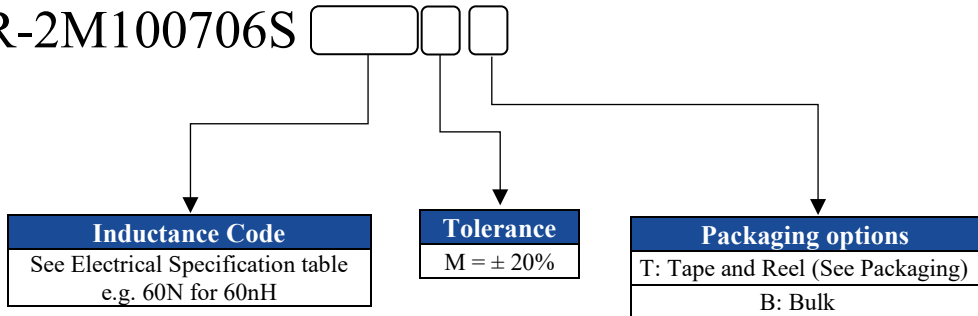
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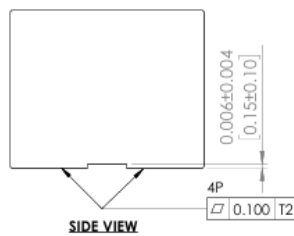
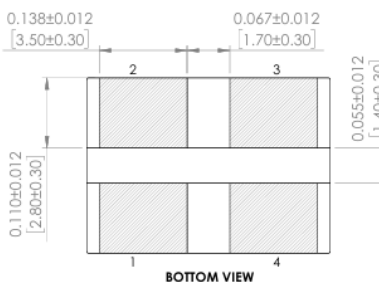
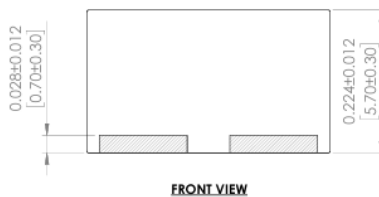
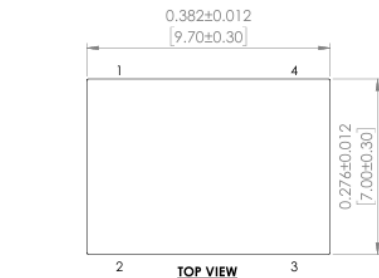
Part Identification

AVR-2M100706S

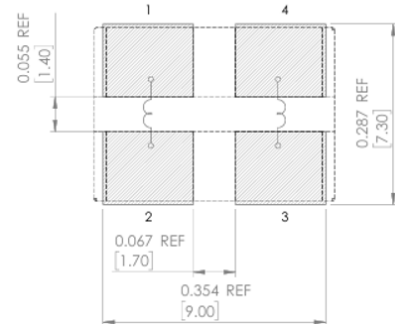


*Tolerance only available as indicated in electrical spec. table

Mechanical Specifications



RECOMMENDED LAND PATTERN



NOTES:

1. The above PCB layout reference only.
2. Recommend solder paste thickness at 0.15 mm and above.
3. Electrode position does not represent polarity.

Dimensions: Inches [mm]

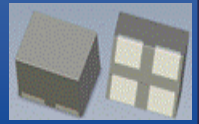


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Reflow Profile

Reflow standard: [JEDEC J-STD-020E]

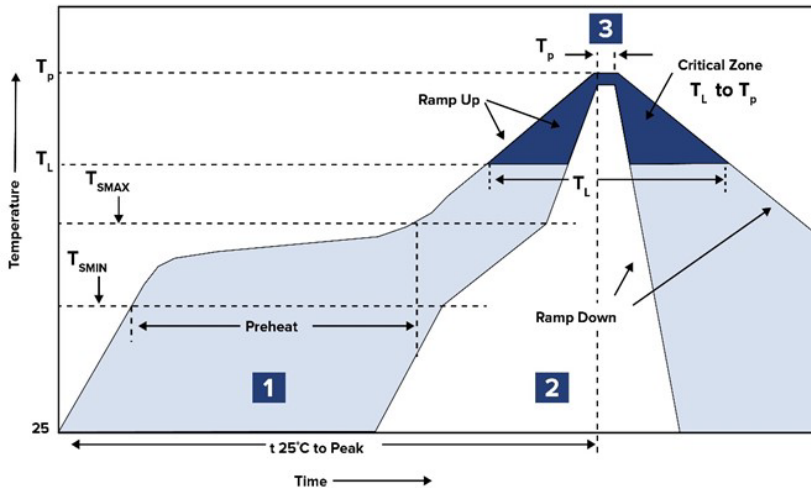


Table (1.2)

Pb-Free Process

Classification Temperatures (T_c)

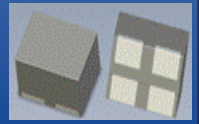
Package Thickness	Volume mm^3 <350	Volume mm^3 350-2000	Volume mm^3 >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Profile Feature	Pb-Free Assembly
Preheat / soak	
Temperature minimum (T_{smin})	150°C
Temperature maximum (T_{smax})	200°C
Time (T_{smin} to T_{smax}) (t_s)	60 - 120 sec.
Average ramp-up rate (T_{smax} to T_p)	3°C/sec. max
Liquidous temperature (T_L)	217°C
Time at liquidous (t_L)	60 - 150 sec.
Peak package body temperature (T_p)*	See Table (1.2)
Time (t_p)** within 5°C of the specified classification temperature (T_c)	30 sec.
Ramp-down rate (T_p to T_{smax})	6°C/sec. max
Time 25°C to peak temperature	8 min. max
Reflow cycles	2 max

*Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

**Tolerance for time at peak profile temperature (t_p) is defined as supplier minimum and a user maximum.

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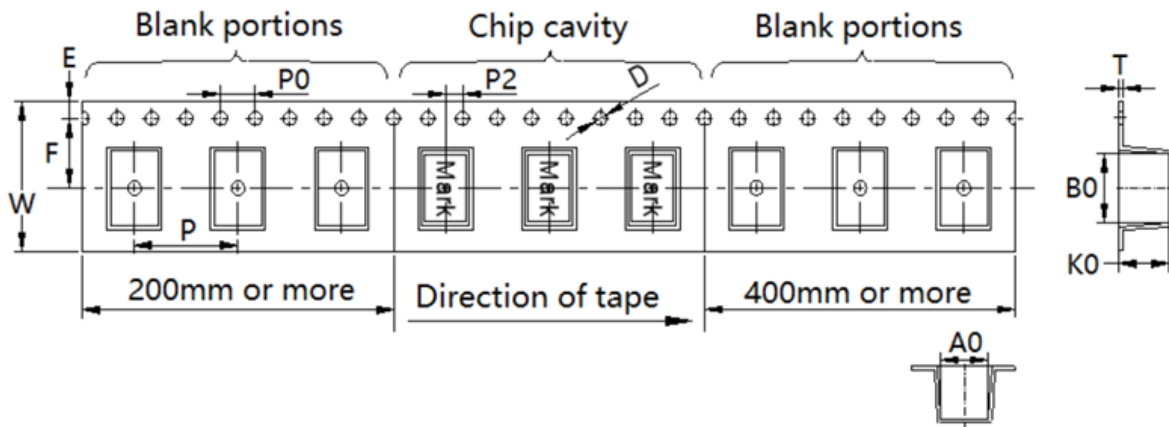
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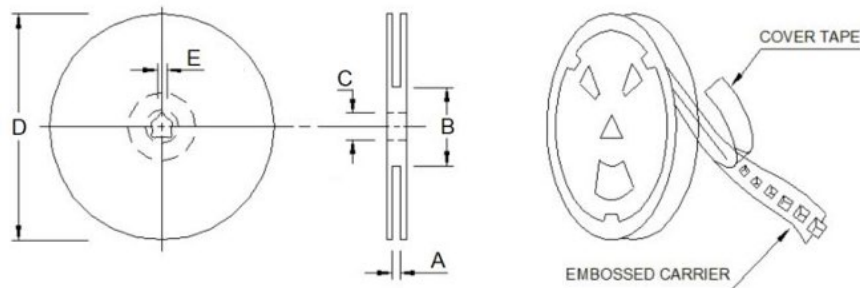
Packaging

Tape & Reel: 600 pcs/reel



Tape Specifications (mm)

A0	B0	D	E	F	K0	P
7.7 Ref	10.6 Ref	1.5±0.1	1.75±0.1	11.5±0.1	6.5 Ref	16.0±0.1
P0	P2	T	W			
4.0±0.1	2.0±0.1	0.5±0.05	24±0.3			



Reel Specifications (mm)

Type	A	B	C	D	E
13"x24mm	24.4 Ref	100 Ref	13.0 Ref	330	2.0 Ref

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