



AVR-1C050406S

Request Samples



Check Inventory



4.8 x 3.8 x 5.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Shielded construction
- Soft saturation material
- High Power Density
- Low DCR of 0.28mΩ, High Efficiency
- Perfect for multi-phased power circuitry

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	Self-Resonant Frequency	Saturation Current		Temperature Rise Current	
	0.1MHz/1.0V		Typ/Max	Typ	Typ	Max	Typ	Max
Units	nH	%	mΩ	MHz	A		A	
Symbol	L		DCR	SRF	Isat		Irms	
AVR-1C050406S85NM	85	±20%	0.28 / 0.33	290	93	80	54	50

Test Conditions

Isat: DC current at which the inductance drops 30% from its value without current.

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

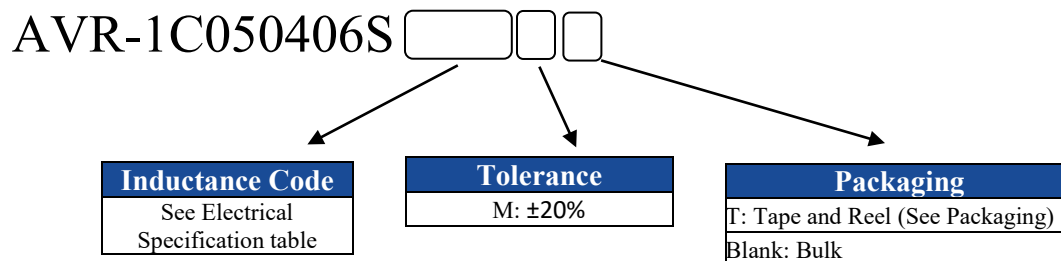
Operating Temperature: -45°C ~ +125°C (including self-temperature rise)

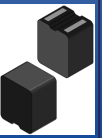
Storage Condition: -10°C ~ +40°C (with packaging) and R.H. <65% max

Operating Voltage: 40V (across inductor)

AVR-1C050406S Series is **RoHS Compliant and Pb free**

Part Identification





AVR-1C050406S

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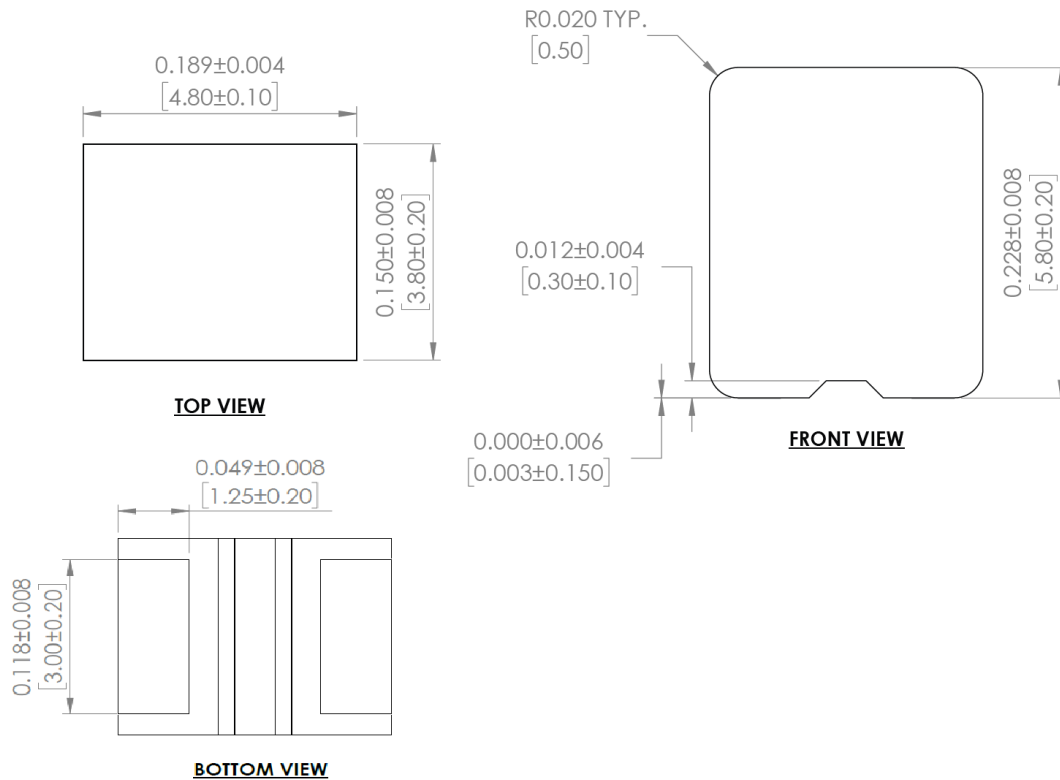


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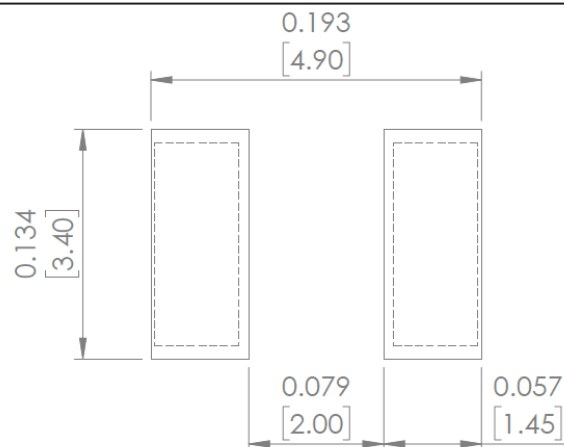
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Mechanical Specifications



Dimensions: Inches [mm]

Recommended Land Pattern



Dimensions: Inches [mm]



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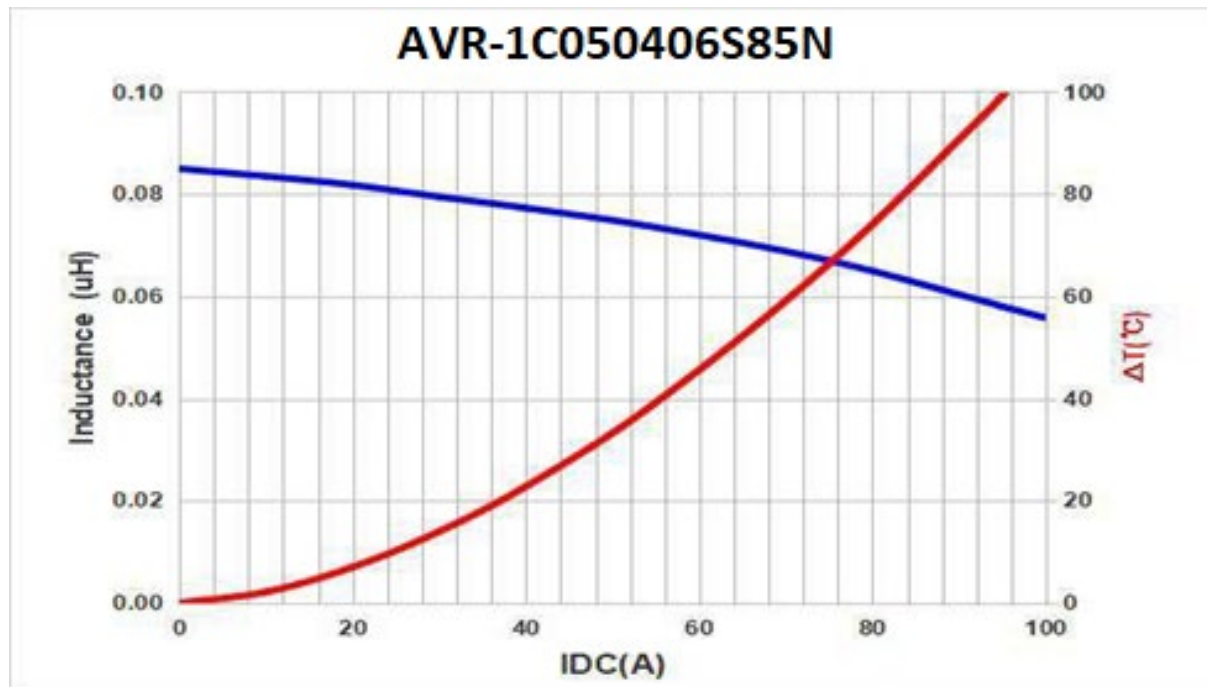


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Performance Graphs (Saturation and Temperature Rise)





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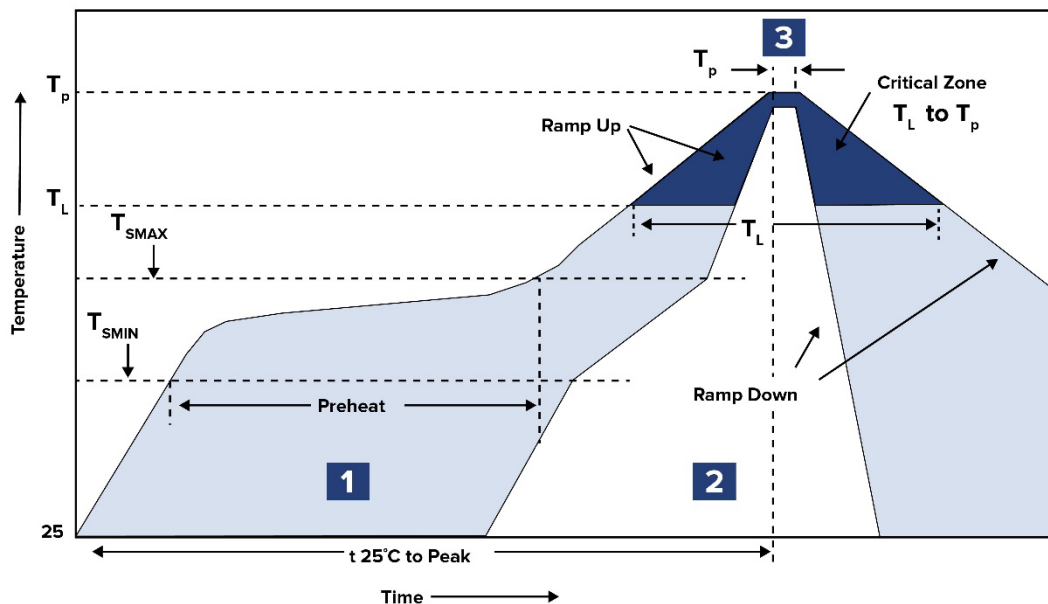


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Reflow Profile



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 260°C	5 sec. MAX

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