

AVR-1F090706S

Request Samples



Check Inventory



9.3 x 6.8 x 5.5 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Shielded construction
- Soft saturation
- High Power Density
- Low DCR, 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	Saturation Current (Typ)			Temperature Rise Current
	0.1MHz/1.0V			@25°C	@100°C	@125°C	Min.
Units	nH	%	mΩ ±10%	A			A
Symbol	L		DCR	Isat			Irms
AVR-1F090706S70NL	70	±15%	0.14	100	85	75	65
AVR-1F090706SR10L	100	±15%	0.14	70	59	52	65
AVR-1F090706SR12L	120	±15%	0.14	58	49	43	65
AVR-1F090706SR15L	150	±15%	0.14	46	39	35	65
AVR-1F090706SR18L	180	±15%	0.14	38	33	29	65
AVR-1F090706SR22L	220	±15%	0.14	31	27	23	65

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

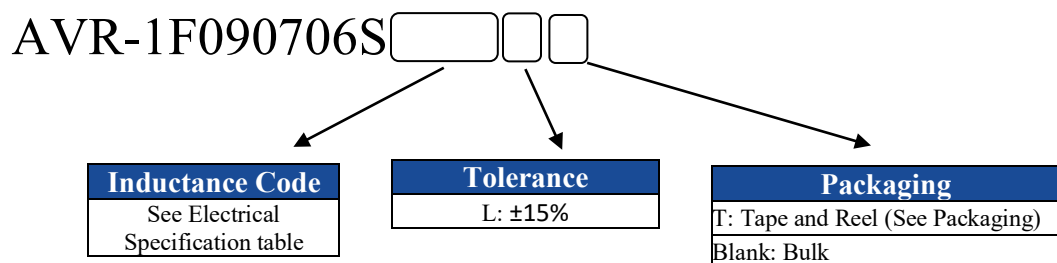
Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

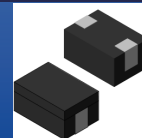
Storage Condition: -40°C ~ +85°C (with packaging) and R.H. <95% max

Operating Voltage: 40V (across inductor)

AVR-1F090706S Series is **RoHS Compliant and Pb free**

Part Identification





AVR-1F090706S

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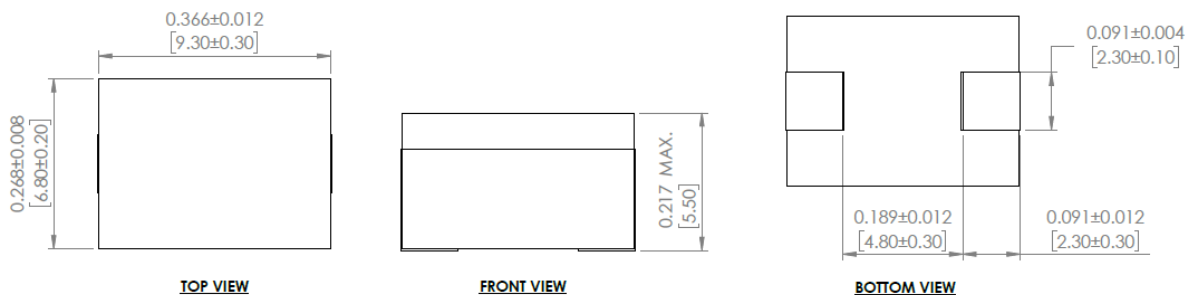


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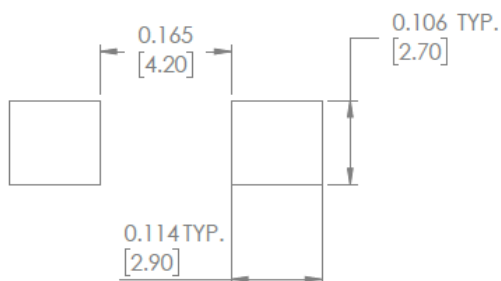
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Mechanical Specifications

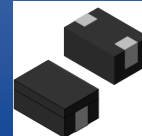


Dimensions: Inches [mm]

Recommended Land Pattern



Dimensions: Inches [mm]



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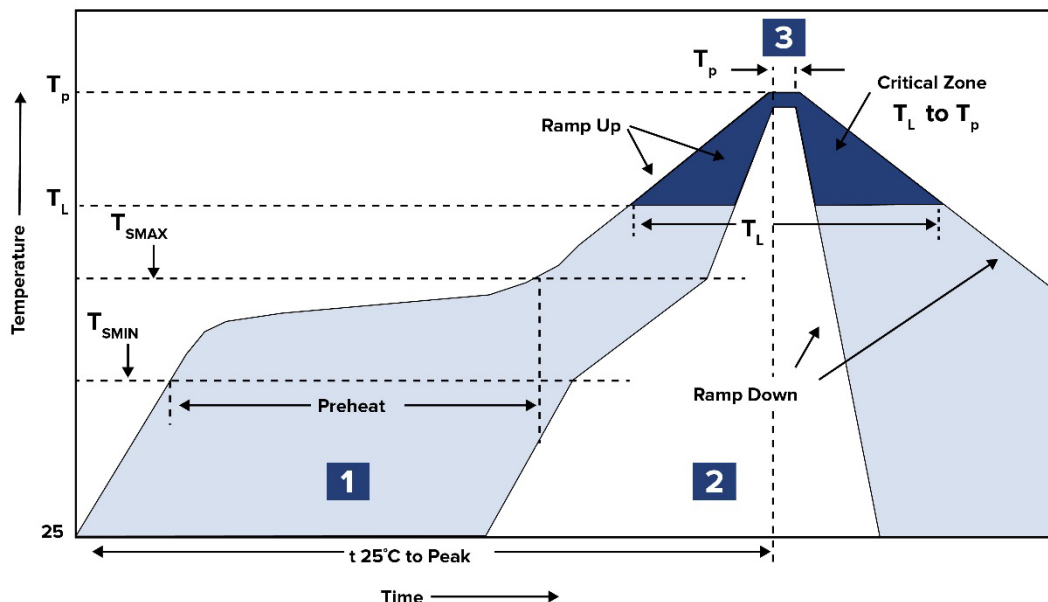


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Reflow Profile



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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