

AVR-1F100705S

Request Samples



Check Inventory



10.0 x 6.8 x 5.0 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 Max	A			A
Symbol	L		DCR	Isat			Irms
AVR-1F100705S70NK	70	±10%	0.1375	85	78	68	40
AVR-1F100705SR10K	100	±10%	0.1375	60	55	48	40
AVR-1F100705SR12K	120	±10%	0.1375	50	45	40	40
AVR-1F100705SR15K	150	±10%	0.1375	40	36	32	40
AVR-1F100705SR20K	200	±10%	0.1375	30	27	24	40
AVR-1F100705SR30K	300	±10%	0.1375	19	17	15	40

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

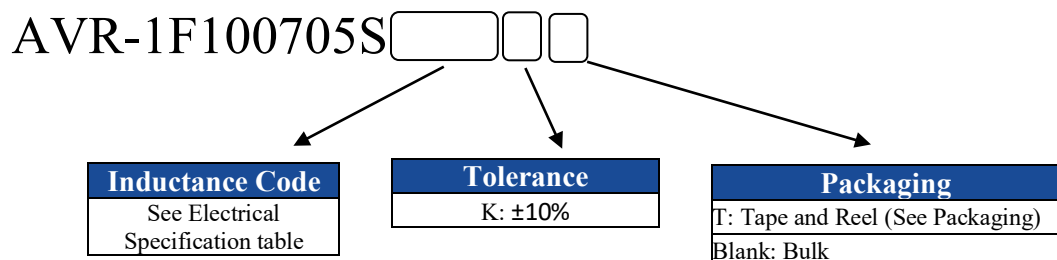
Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

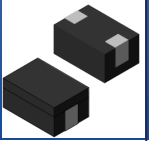
Storage Condition: -40°C ~ +85°C (with packaging) and R.H. <95% max

Operating Voltage: 40V (across inductor)

AVR-1F100705S Series is RoHS Compliant and Pb free

Part Identification





AVR-1F100705S

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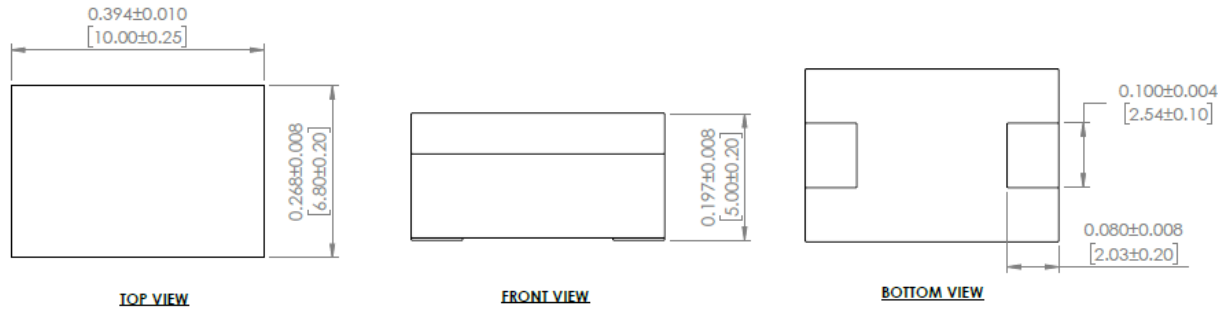


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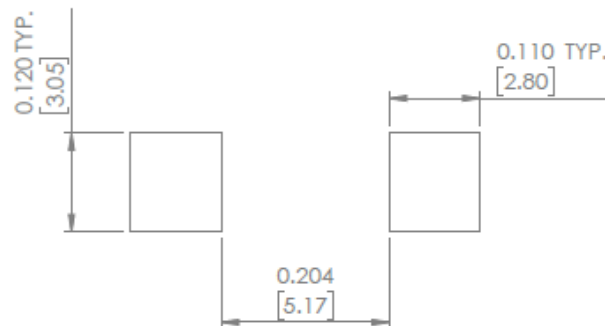
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Mechanical Specifications

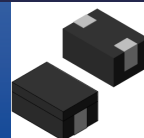


Dimensions: Inches [mm]

Recommended Land Pattern



Dimensions: Inches [mm]



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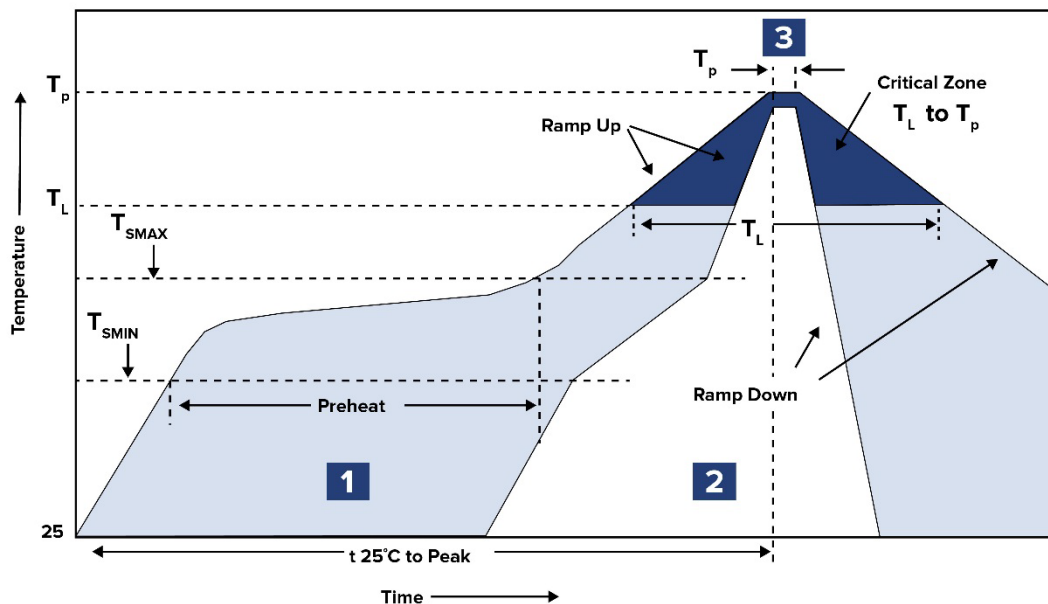


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Reflow Profile



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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