

AVR-1F070704S

Request Samples



Check Inventory



7.0 x 6.6 x 3.8 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	Typ.
Units	nH	%	mΩ MAX	A	A
Symbol	L		DCR	Isat	Irms
AVR-1F070704S60NM	60	±20%	0.19	51	30
AVR-1F070704SR10M	100	±20%	0.19	34	30

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

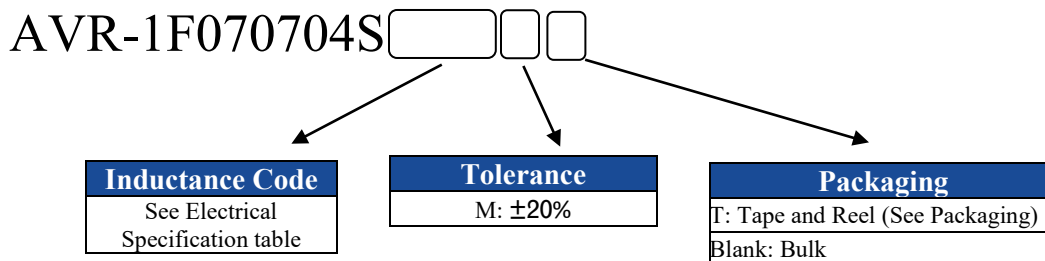
Operating Temperature: -45°C ~ +125°C (including self-temperature rise)

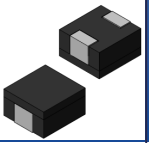
Storage Condition: -40°C ~ +125°C (with packaging) and R.H. <95% max

Operating Voltage: 40V (across inductor)

AVR-1F070704S Series is **RoHS Compliant and Pb free**

Part Identification





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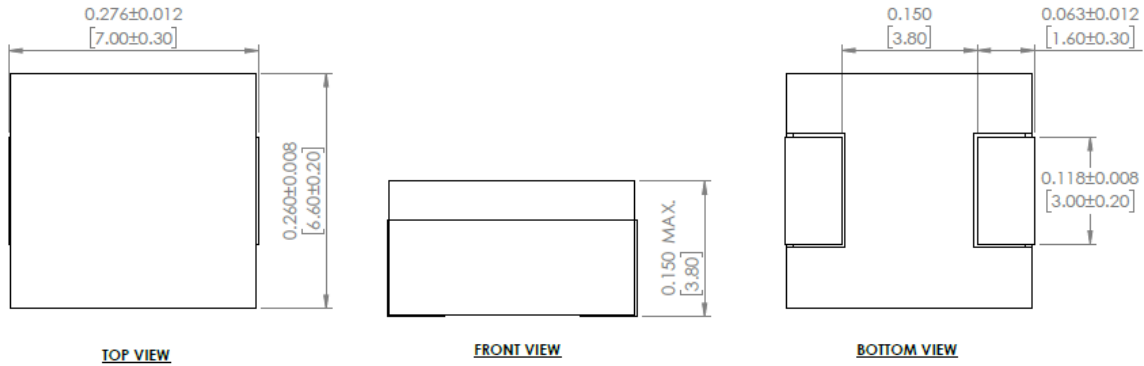


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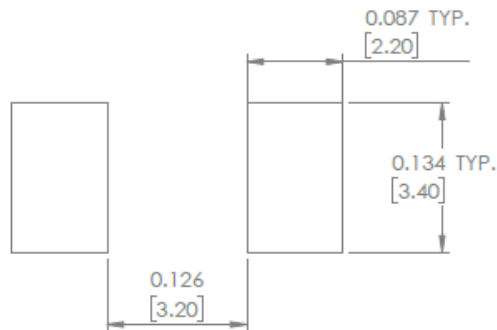
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Mechanical Specifications

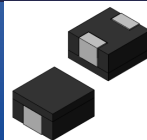


Dimensions: Inches [mm]

Recommended Land Pattern



Dimensions: Inches [mm]



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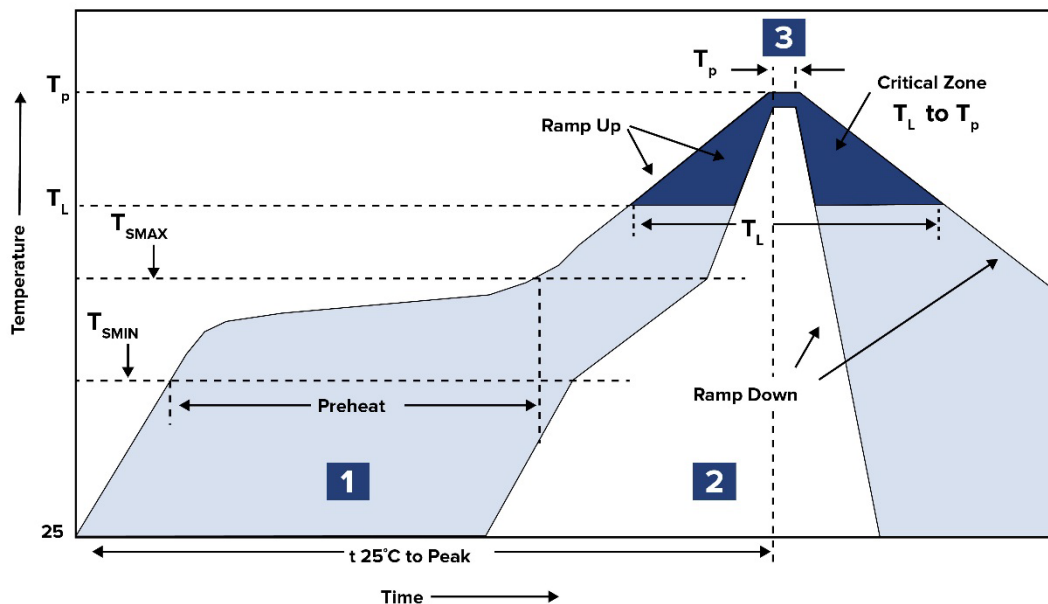


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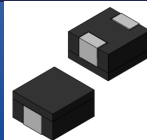
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Reflow Profile



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

Assembly Power Inductors



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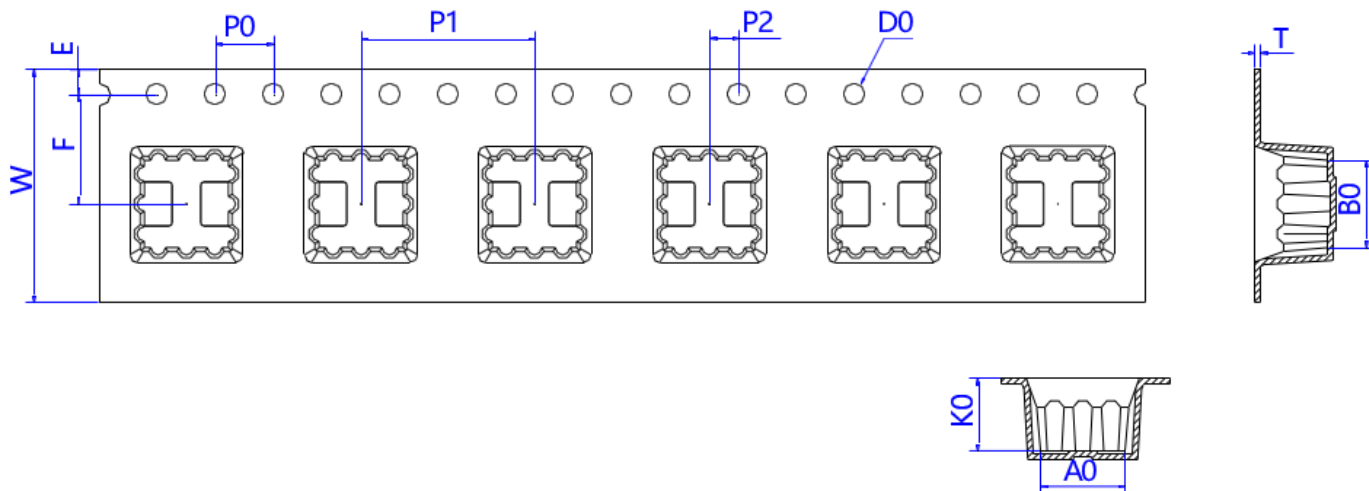
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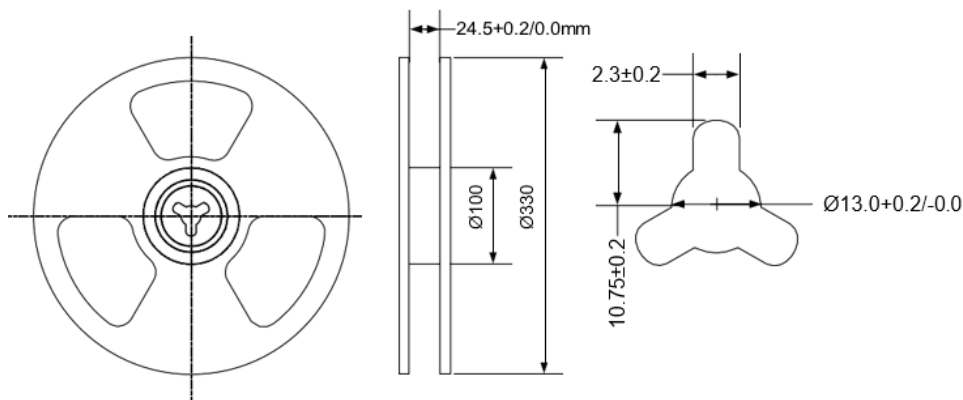
Packaging

Tape & Reel: 1,500 pcs/reel



Series	W	E	F	P ₀	P ₁	P ₂	D ₀	A ₀	B ₀	T	K ₀
AVR-1F070704S	16.00 ± 0.30	1.75 ± 0.10	7.50 ± 0.10	4.0 ± 0.1	12.0 ± 0.1	2.0 ± 0.1	1.5 + 0.1/- 0.0	7.20 ± 0.10	7.50 ± 0.10	0.35 ± 0.05	4.40 ± 0.10

Dimensions: mm



ATTENTION: Abracon LLC's products are Commercial-Off-The-Shelf (COTS, which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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12/2/2024

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