AVR-1F100808S

Request Samples 🕥

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10.8 x 8.2 x 8.5mm RoHS/RoHS II Compliant MSL Level = 1

Features

- Ferrite Core
- Low DCR, High Efficiency
- High temperature current rating
- High saturation current rating

Applications

- Single and Multiphase DC-DC converters
- Voltage regulator modules (VRMs)
- Renewable energy, Power inverters, DC links
- Electric Vehicles (EVs)
- 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	
	100KHz/1.0V		mΩ	Тур.		Тур.
Units	nH	%	11152	Α		Α
Symbol	L	L	DCR	Isat1@ 25°C	Isat2@ 100°C	Irms
AVR-1F100808SR12LT	120	15%	0.12 ± 7%	94	84	70
AVR-1F100808SR15LT	150			79	70	
AVR-1F100808SR17LT	170			68	58	
AVR-1F100808SR22LT	220			60	45	
AVR-1F100808SR30LT	300			39	33	
AVR-1F100808SR40LT	400			21	16	

* The "T" at the end of the part numbers refers to "Tape & Reel" packaging. For other options, please refer to the Part Identification section.

Test Conditions:

Isat1: DC current at which the inductance drops 20% from its nominal value at 25°C.

Isat2: DC current at which the inductance drops 20% from its nominal value at 100°C.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 25°C ambient.

Operating Temperature: -40° C ~ $+125^{\circ}$ C. (including self-temperature rise)

Storage Condition: -40°C ~ +125°C (on board), -10°C ~ +40°C (with packaging) and R.H. 70 max. **AVR-1F100808S Series is RoHS Compliant and Pb free.**



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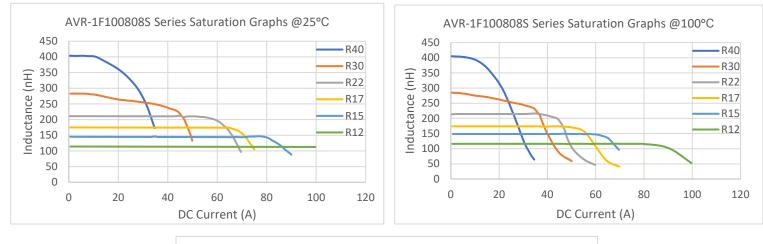
AVR-1F100808S

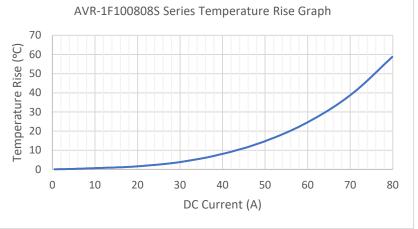
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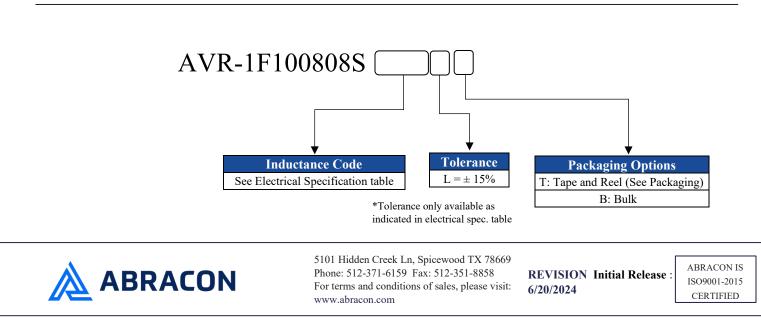
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Performance Graphs

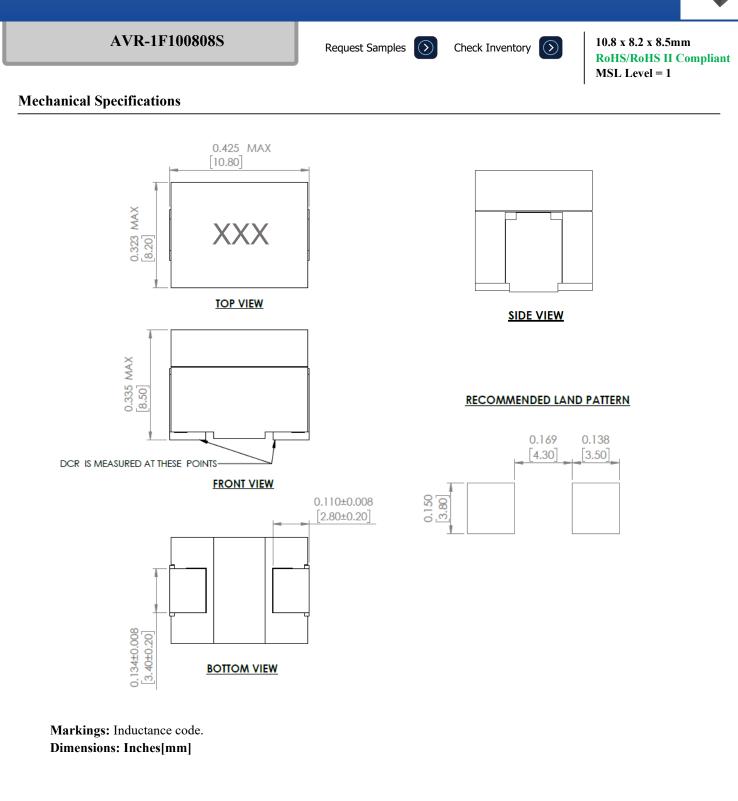




Part Identification









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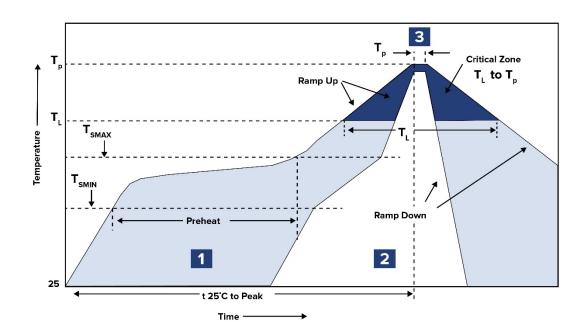




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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	Т _L 230°С	$30 \sim 60$ sec.
3	Peak heat	$\frac{T_{P}}{245^{\circ}C\pm5^{\circ}C}$	5 ± 0.5 sec.

Ref. Solder paste: Sn/3.0Ag/0.5Cu Ramp up rate: 3°C/s Max. Ramp down rate: 6°C/s Max.



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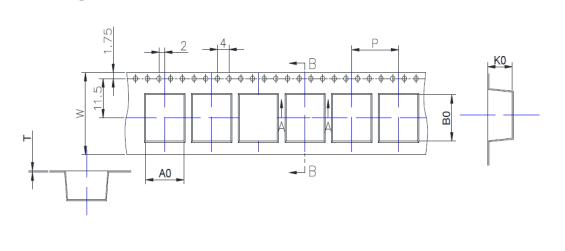


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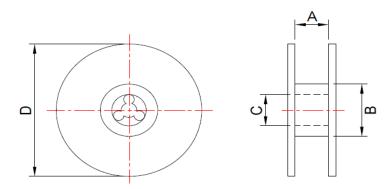
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Packaging

Tape & Reel: 600 pcs/reel



Ao	Bo	Ko	Р	Т	W
8.2 ± 0.1	10.2 ± 0.1	8.2 ± 0.1	12.0 ± 0.1	0.4 ± 0.05	24.0 ± 0.3



Α	В	С	D
24.0 ± 0.5	100 ± 2.0	13.5 ± 0.5	330 Ref.

Dimensions: mm

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