

AVR-1Z090610S

Request Samples 🕥

Check Inventory

9.4 x 6.2 x 10.1mm 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	Dim. B	DC Resistance	Satura Curr		Temperature Rise Current
	800KHz/0.1V		Тур.	mΩ	Тур.		Тур.
Units	nH	%	mm	11152	Α		Α
Symbol	L	К	В	DCR	Isat1@ 25°C	Isat2@ 100°C	Irms
AVR-1Z090610S70NKT	70	10	6.2±0.4	0.12 Max. (0.10 Typ.)	145	126	84
AVR-1Z090610SR10KT	100				110	90	
AVR-1Z090610SR12KT	120		10 6.2±0.2		90	75	
AVR-1Z090610SR15KT	150				67	58	
AVR-1Z090610SR18KT	180				56	49	
AVR-1Z090610SR22KT	220				46	40	
AVR-1Z090610SR28KT	280				36	31	

* The "T" at the end of the part number 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.
Dim. B: Refer to the Mechanical Specs section
DC Resistance: Nominal DCR measured from point 'a' to b'. (refer to the Mechanical specs section)

Operating Temperature: -40°C ~ +125°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-1Z090610S Series is RoHS Compliant and Pb free.**



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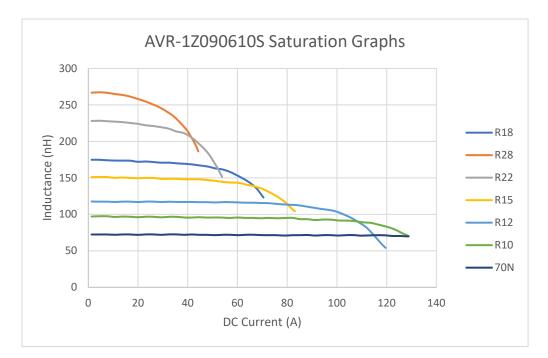
AVR-1Z090610S

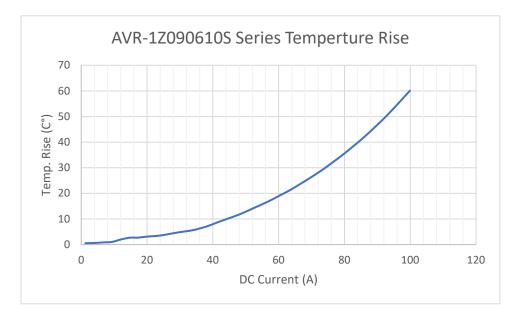
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Performance Graphs





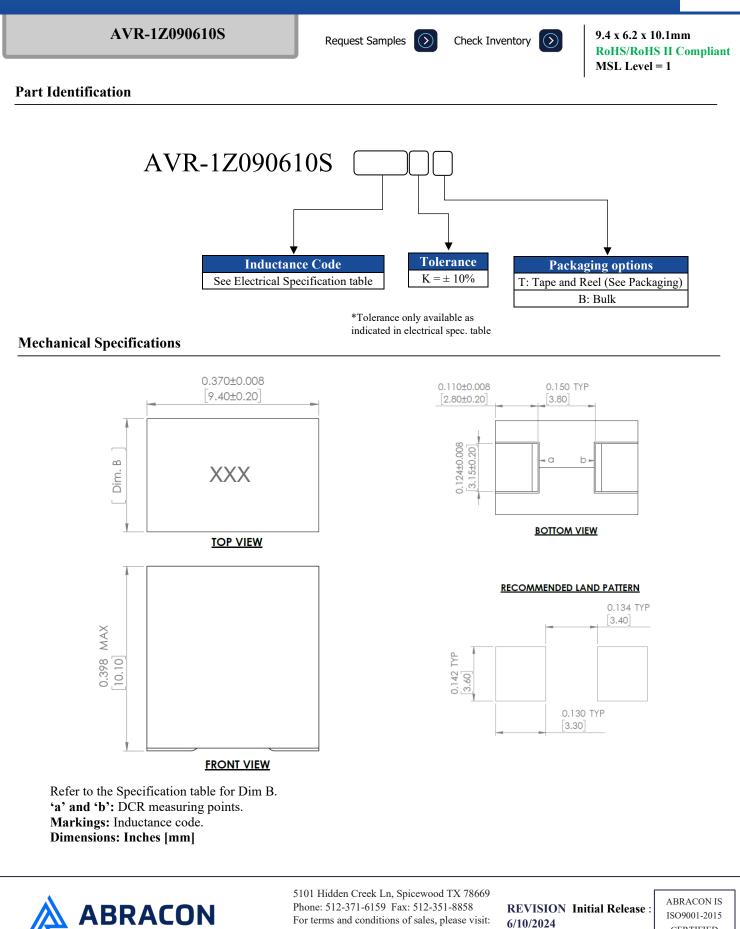


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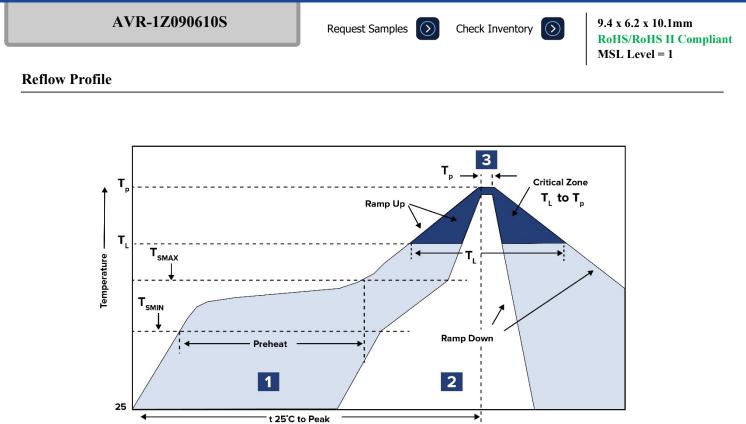


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Zone	Description	Temperature	Times	
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	60 ~ 120 sec.	
2	Reflow	Т _L 217°С	$60 \sim 150$ sec.	
3	Peak heat	Т _Р 260°С Max	5 Sec. Max	

Time

Ref. Solder paste: Sn/3.0Ag/0.5Cu Time from 25°C to peak: 8 Mins Ramp up rate: 3°C/s Max. Ramp down rate: 6°C/s Max.



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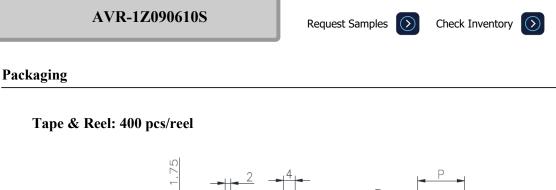
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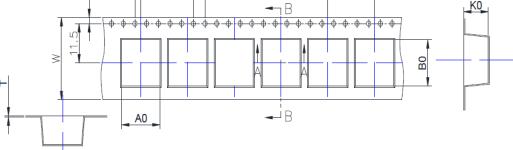


9.4 x 6.2 x 10.1mm

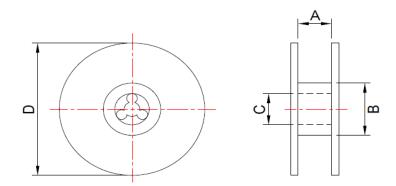
MSL Level = 1

RoHS/RoHS II Compliant





Ao	Bo	Ko	Р	Т	W
6.6 ± 0.10	10.0 ± 0.10	10.3 ± 0.10	12.0 ± 0.10	0.5 ± 0.05	24.0 ± 0.30



Α	В	С	D
24.5 ± 0.2	100 ± 2.0	13.0 ± 0.2	330 Ref.

Dimensions: mm

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