

VERTICALLY ASSEMBLED POWER INDUCTOR



AVR-1Z070711S

Request Samples



Check Inventory



6.7 x 6.6 x 10.7mm
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 100KHz/1.0V	Full Load Inductance	Dim. B	DC Resistance	Saturation Current		Temperature Rise Current	
	nH					Min.	±0.3		
Units	nH	%	nH	mm	mΩ		Typ.	Typ.	
Symbol	L	K, L	FLL	B	DCR	Isat1@ 25°C	Isat2@ 100°C	Irms	
AVR-1Z070711S55NLT	55	15	42	6.6	0.145±10%	155	130	76	
AVR-1Z070711S70NKT	70		49			134	114		
AVR-1Z070711SR10KT	100		70			93	79		
AVR-1Z070711SR12KT	120		84			76	65		
AVR-1Z070711SR15KT	150		105	6.4		60	51		
AVR-1Z070711SR22KT	220		154			42	35		
AVR-1Z070711SR33KT	330		231			28	22		

* 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 to FLL at 25°C.

Isat2: DC current at which the inductance drops to FLL 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-1Z070711S Series is RoHS Compliant and Pb free.

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Part Identification

AVR-1Z070711S

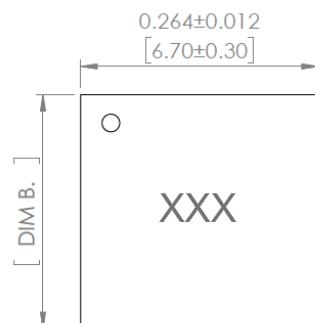
Inductance Code
See Electrical Specification table
e.g. R10

Tolerance*
K = $\pm 10\%$
L = $\pm 15\%$

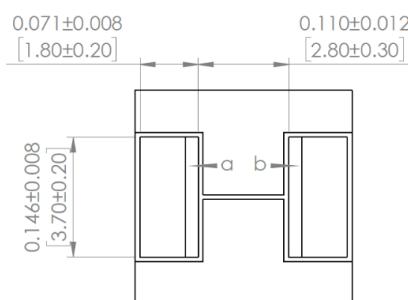
Packaging options
T: Tape and Reel (See Packaging)
B: Bulk

*Tolerance only available as indicated in electrical spec. table

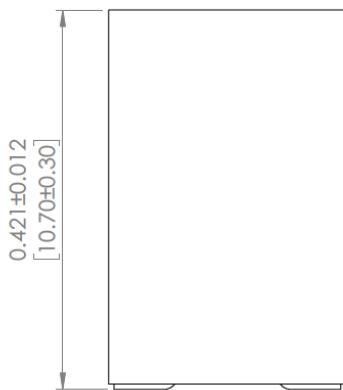
Mechanical Specifications



TOP VIEW

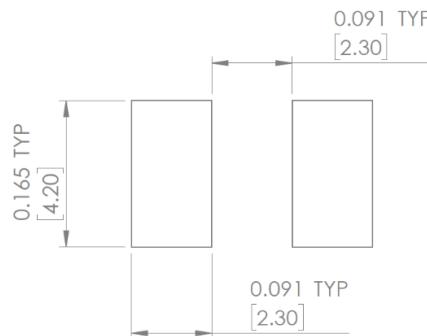


BOTTOM VIEW



FRONT VIEW

RECOMMENDED LAND PATTERN



Refer to the Specification table for Dim B.

'a' and **'b'**: DCR measuring points.

Markings: Inductance code.

Dimensions: Inches [mm]

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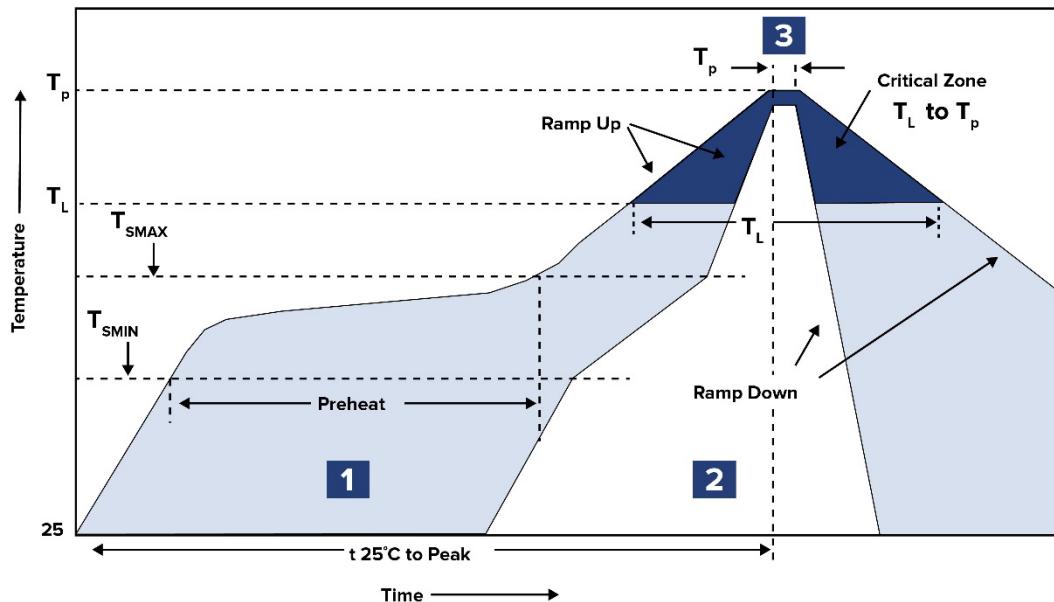


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Reflow Profile



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 Max	5 Sec. Max

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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