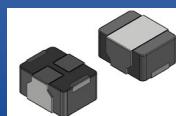


Co-fired Power Inductor

**AVR-1H070532S**[Request Samples](#)[Check Inventory](#)

6.6 x 5.0 x 3.2mm
RoHS/RoHS II Compliant
MSL Level = 3

Features

- Co-fired Alloy
- Low DCR, High Efficiency
- High temperature-rise current rating
- High saturation current rating
- Low Profile

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 0.8MHz/1.0V	Inductance Tolerance	DC Resistance		Saturation Current		Temperature Rise Current	
			Max.	Typ.	Max.	Typ.	Max.	Typ.
Units	nH	%	mΩ		A		A	
Symbol	L	M	DCR		Isat		Irms	
AVR-1H070532S85NM	85	20%	0.2	0.15	35	40	55	60

*For full orderable part number, please refer to the [Part Identification](#) section.

Test Conditions:

Isat: DC current at which the inductance drops 30% from its nominal value at 25°C.

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 ~ +125°C (on board), -10°C ~ +40°C (with packaging) and R.H. 60% max.

AVR-1H070532S Series is RoHS Compliant and Pb free.

Part Identification

AVR-1H070532S



Inductance Code

See Electrical Specification table
e.g. 85N for 85nH

Tolerance

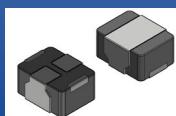
M = ± 20%

Packaging options

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

*Tolerance only available as
indicated in electrical spec. table

Co-fired Power Inductor



AVR-1H070532S

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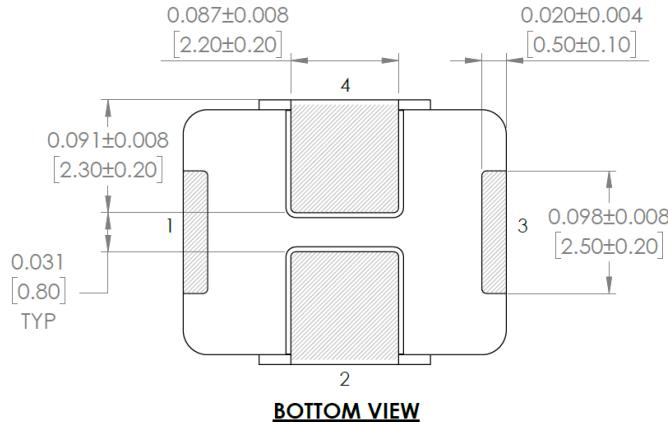
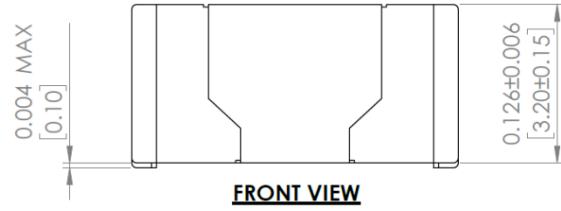
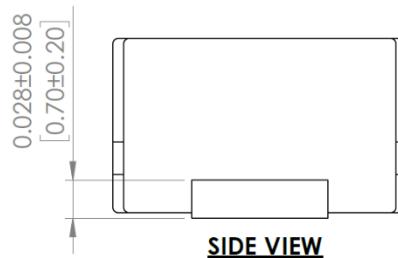
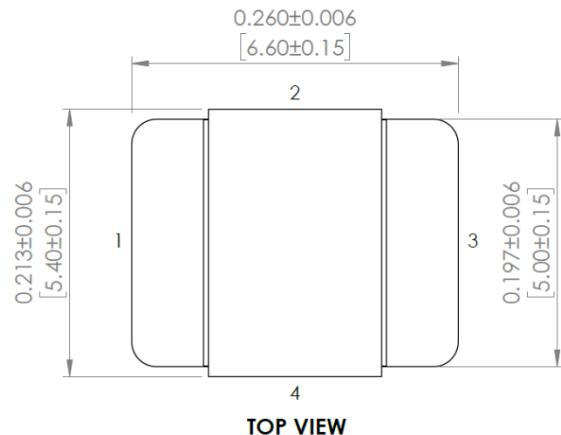


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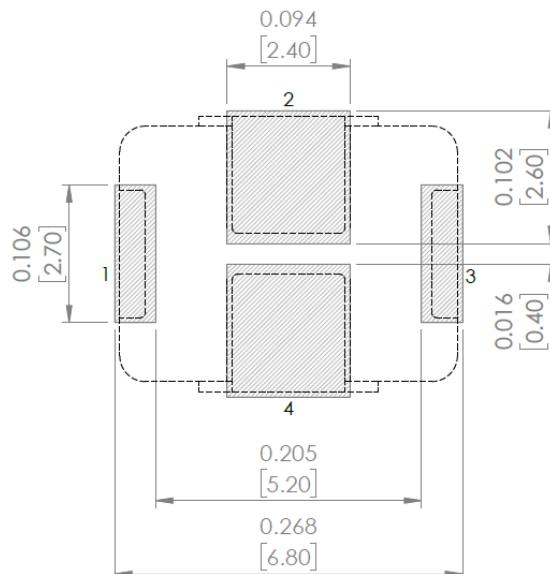


6.6 x 5.0 x 3.2mm
RoHS/RoHS II Compliant
MSL Level = 3

Mechanical Specifications



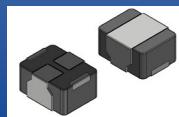
RECOMMENDED LAND PATTERN



Inductors electrodes: Pin 1 – Pin 3

Dimensions: Inches [mm]

Co-fired Power Inductor



AVR-1H070532S

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6.6 x 5.0 x 3.2mm
RoHS/RoHS II Compliant
MSL Level = 3

Reflow Profile

Reflow standard: [JEDEC J-STD-020]

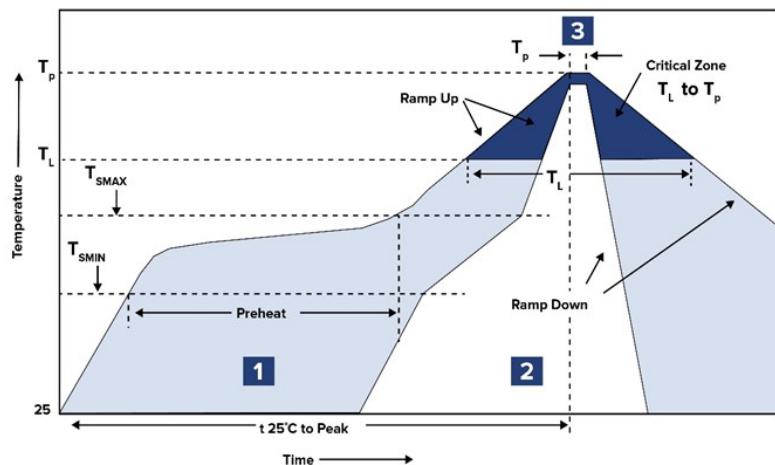


Table 1

SnPb Eutectic Process Classification Temperatures (T_c)

Package Thickness	Volume mm ³ <350	Volume mm ³ ≥350
<2.5 mm	235 °C	220 °C
≥2.5 mm	220 °C	220 °C

Table 2

Pb-Free Process Classification Temperatures (T_c)

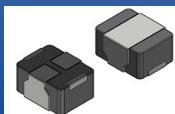
Package Thickness	Volume mm ³ <350	Volume mm ³ 350-2000	Volume mm ³ >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

Profile Feature	Sn-Pb Eutectic Assembly	Pb-Free Assembly
Preheat / soak		
Temperature minimum (T_{smin})	100°C	150°C
Temperature maximum (T_{smax})	150°C	200°C
Time (T_{smin} to T_{smax}) (t_s)	60 - 120 sec.	60 - 120 sec.
Average ramp-up rate (T_{smax} to T_p)	3°C/sec. max	3°C/sec. max
Liquidous temperature (T_L)	183°C	217°C
Time at liquidous (t_L)	60 - 150 sec.	60 - 150 sec.
Peak package body temperature (T_p)*	see Table 1	see Table 2
Time (t_p)** within 5°C of the specified classification temperature (T_c)	20 sec.	30 sec.
Ramp-down rate (T_p to T_{smax})	6°C/sec. max	6°C/sec. max
Time 25°C to peak temperature	6 min. max	8 min. max
Reflow cycles	2 max	2 max

*Tolerance for peak profile temperature (T_p) is defined as a supplier minimum and a user maximum.

**Tolerance for time at peak profile temperature (t_p) is defined as supplier minimum and a user maximum.

Co-fired Power Inductor



AVR-1H070532S

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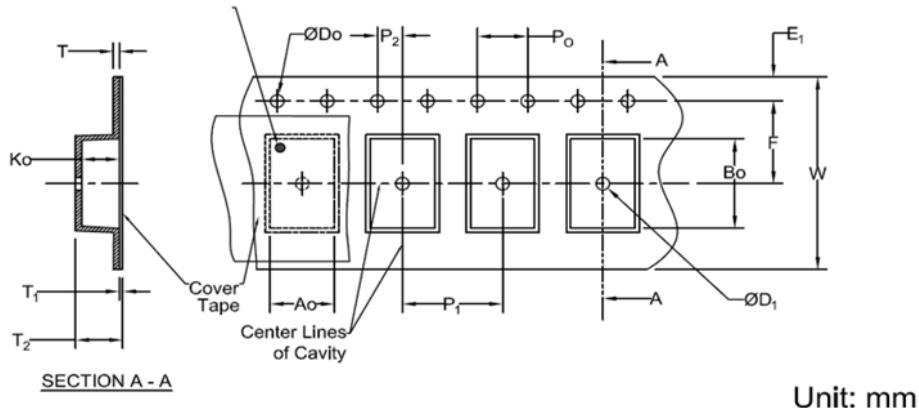
Check Inventory



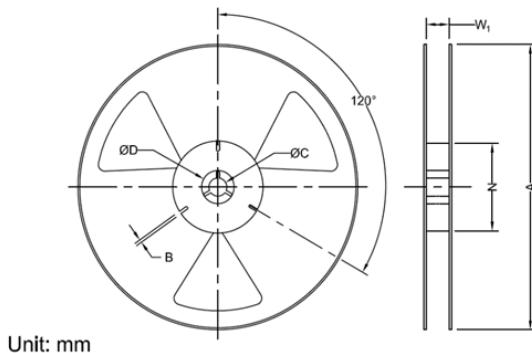
6.6 x 5.0 x 3.2mm
RoHS/RoHS II Compliant
MSL Level = 3

Packaging

Tape & Reel: 1000 pcs/reel



Tape Specifications (mm)							
Width	Ao	Bo	Do	D1 (Min)	E1	F	Ko
16mm	5.8±0.15	7.0±0.15	1.5+0.1/-0.0	1.0	1.75±0.1	7.5±0.10	3.65±0.05
	P ₁	P ₂	P ₀	T (Max)	T ₁ (Max)	T ₂ (Max)	W (Max)
	12.0±0.1	2.0±0.1	4.0±0.1	0.35	*	*	16.3



Reel Specifications (mm)					
Qty/Reel	A (Nom)	C (Min)	D (Min)	N (Min)	W ₁
1000	330	13.0+0.5/-0.2	36.2	100	17.6±0.2

Each tape & reel package is vacuum-sealed

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10/8/2025

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