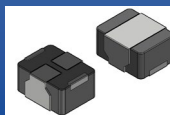


# Co-fired Power Inductor



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	Inductance Tolerance	DC Resistance		Saturation Current		Temperature Rise Current	
	0.8MHz/1.0V		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.

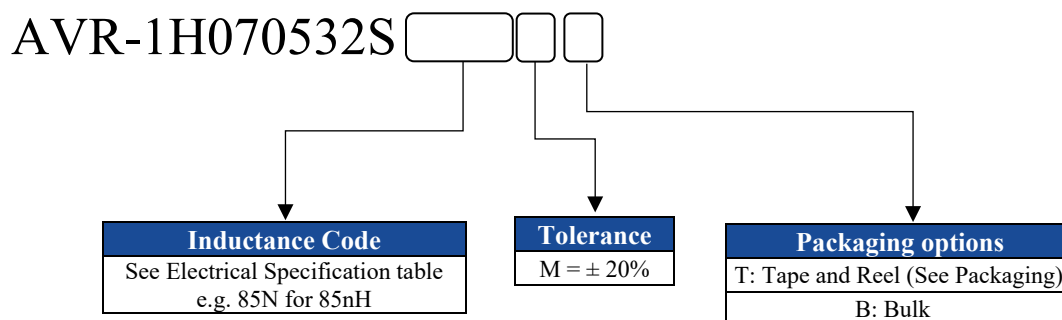
**Irms:** DC current that causes the temperature rise ( $\Delta T$ , approximate 40 °C) from 20°C ambient.

**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.

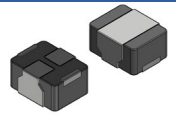
AVR-1H070532S Series is **RoHS Compliant and Pb free**.

## Part Identification



\*Tolerance only available as indicated in electrical spec. table

# Co-fired Power Inductor



**AVR-1H070532S**

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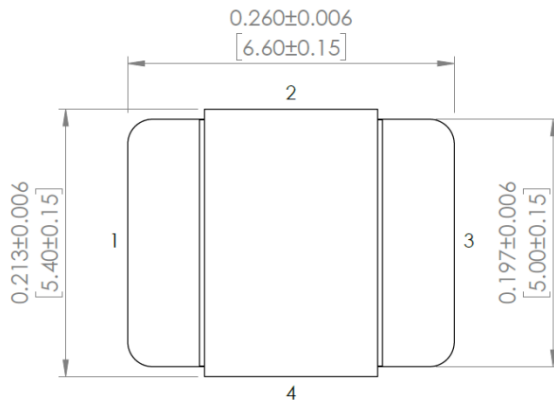


Check Inventory

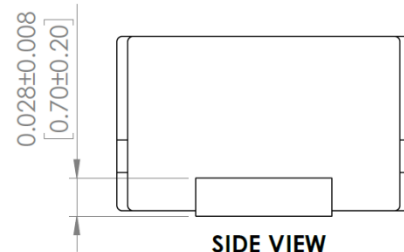


**6.6 x 5.0 x 3.2mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 3**

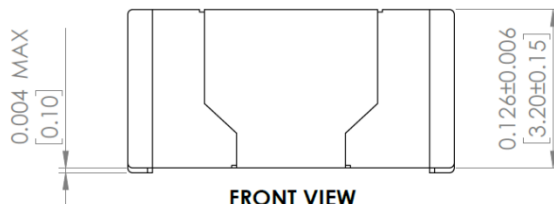
## Mechanical Specifications



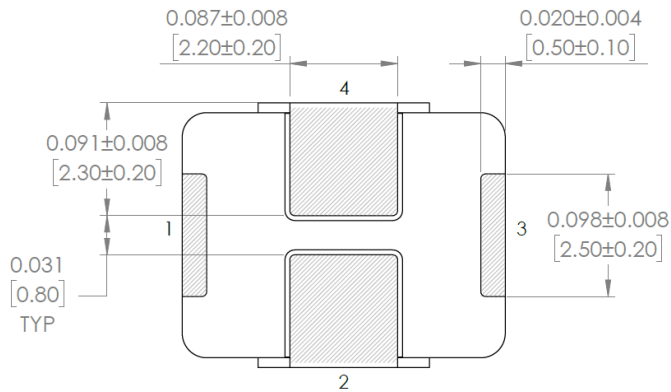
**TOP VIEW**



**SIDE VIEW**

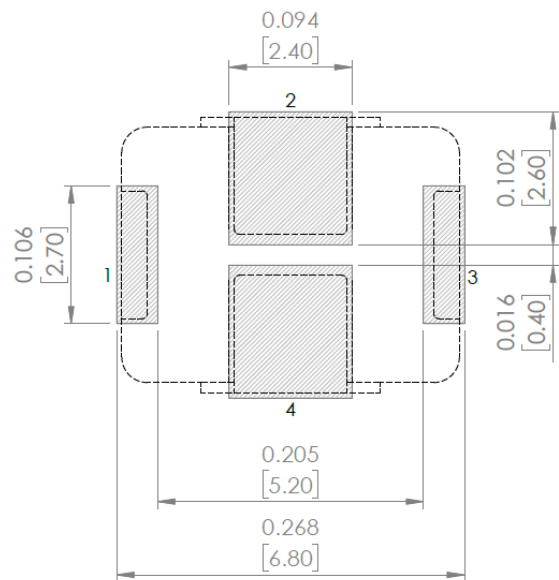


**FRONT VIEW**



**BOTTOM VIEW**

## RECOMMENDED LAND PATTERN



Inductors electrodes: Pin 1 – Pin 3

**Dimensions: Inches [mm]**

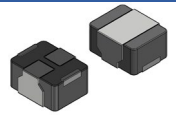


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**REVISION Initial Release :**  
**10/8/2025**

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# 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]

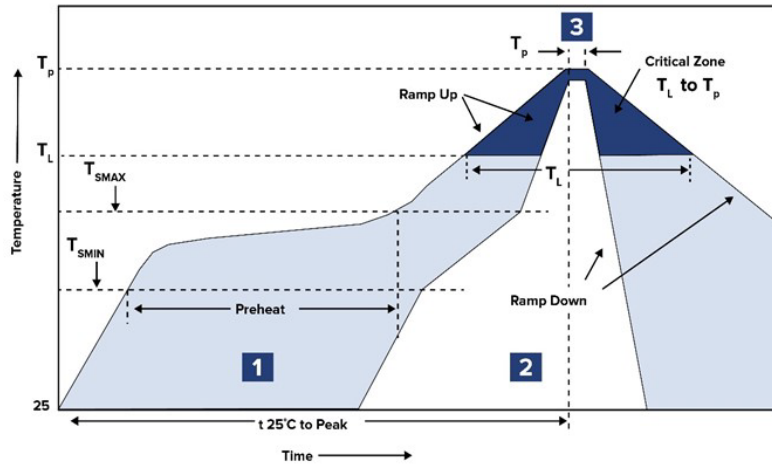


Table 1

### SnPb Eutectic Process Classification Temperatures ( $T_c$ )

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

Table 2

### Pb-Free Process Classification Temperatures ( $T_c$ )

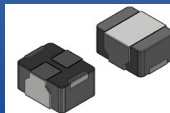
Package Thickness	Volume mm <sup>3</sup> <350	Volume mm <sup>3</sup> 350-2000	Volume mm <sup>3</sup> >2000
<1.6 mm	260 °C	260 °C	260 °C
1.6 mm - 2.5 mm	260 °C	250 °C	245 °C
>2.5 mm	250 °C	245 °C	245 °C

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**

Request Samples



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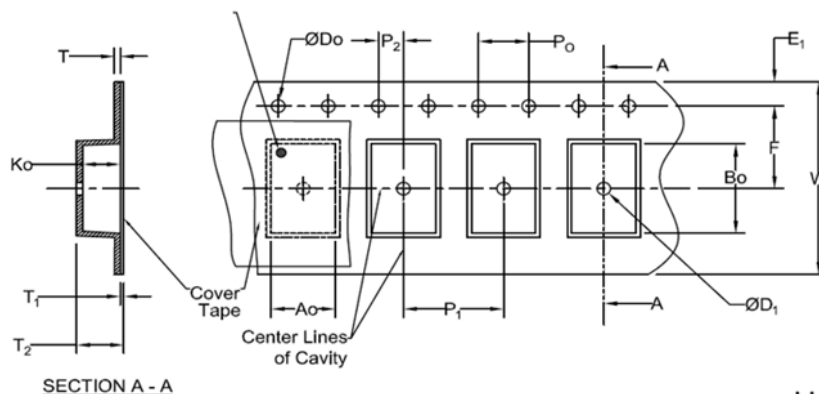
**6.6 x 5.0 x 3.2mm**

**RoHS/RoHS II Compliant**

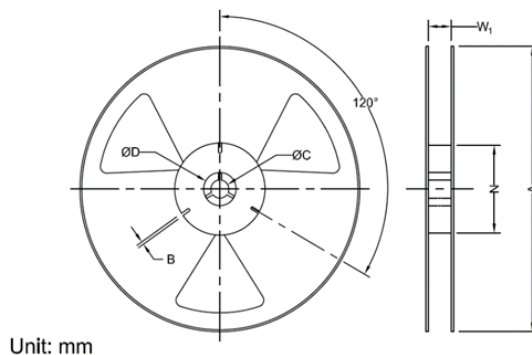
**MSL Level = 3**

## 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
	P1	P2	Po	T (Max)	T1 (Max)	T2 (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)	W1
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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