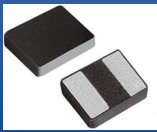


# MINI MOLDED POWER INDUCTOR



AOTA-B201206S

Request Samples



Check Inventory



2.0 x 1.2 x 0.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Shielded construction for minimized EMI.
- Low DCR (as low as 32 mΩ) for better efficiency
- High current up to 4.8A handling capability
- Compact size that is suitable for high-density designs
- Excellent for high-frequency switching applications due to SRF of 50MHz or above.

## Applications

- Consumer electronics and portable devices
- Power electronics such as DC-DC converters, inverters and voltage regulators
- Industrial applications, robotics, signal conditioning, instrumentation and control systems
- IoT devices, smart home, automation systems and wireless sensing

## Electrical Specifications

Part Number	Inductance	Tolerance	Self-Resonant Frequency	DC Resistance		Saturation Current		Temperature Rise Current	
	1MHz/1.0V		Min.	Typ	Max	Typ	Max	Typ	Max
Units	μH	%	MHz	mΩ		A		A	
Symbol	L	M	SRF	DCR		Isat		Irms	
AOTA-B201206SR47MT	0.47	20%	96	32	34	4.8	4.5	4.3	4.0
AOTA-B201206S1R0MT	1.0	20%	53	78	86	2.7	2.5	2.7	2.4
AOTA-B201206S2R2MT	2.2	20%	50	173	200	1.8	1.6	1.8	1.5

## Test Conditions

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

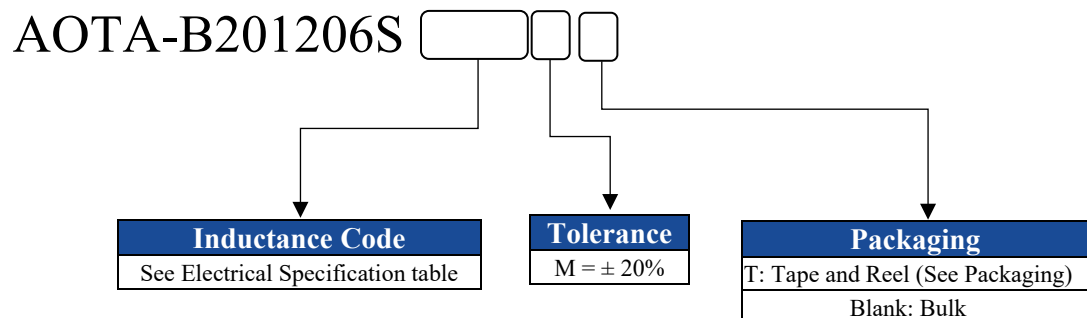
**Irms:** DC current that causes the temperature rise ( $\Delta T$ , approximate 40 °C) from 25°C ambient.

**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.

AOTA-B201206S Series is **RoHS Compliant and Pb free.**

## Part Identification



5101 Hidden Creek Ln, Spicewood TX 78669  
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REVISION Initial Release :  
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# MINI MOLDED POWER INDUCTOR



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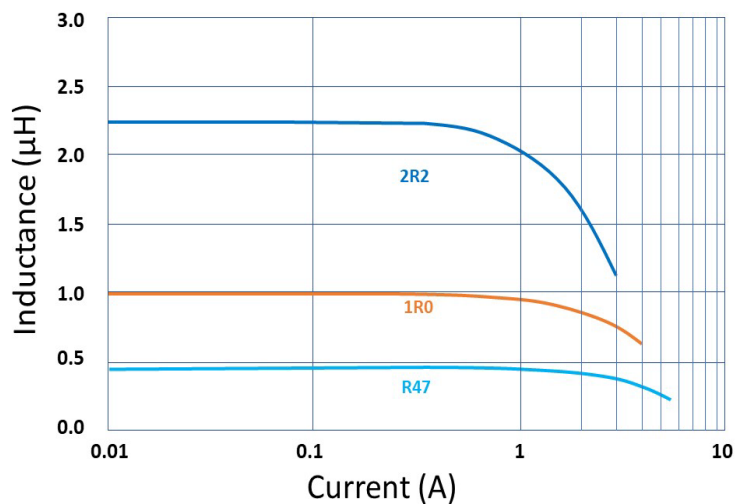
Check Inventory



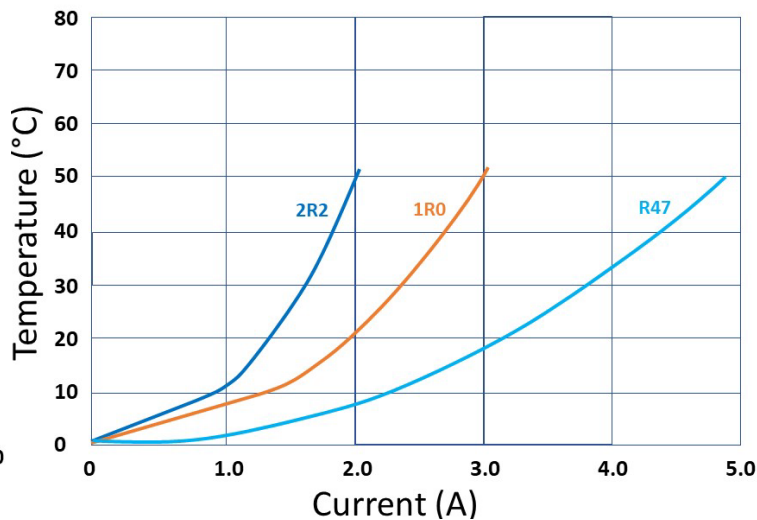
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RoHS/RoHS II Compliant  
MSL Level = 1

## Performance Graphs

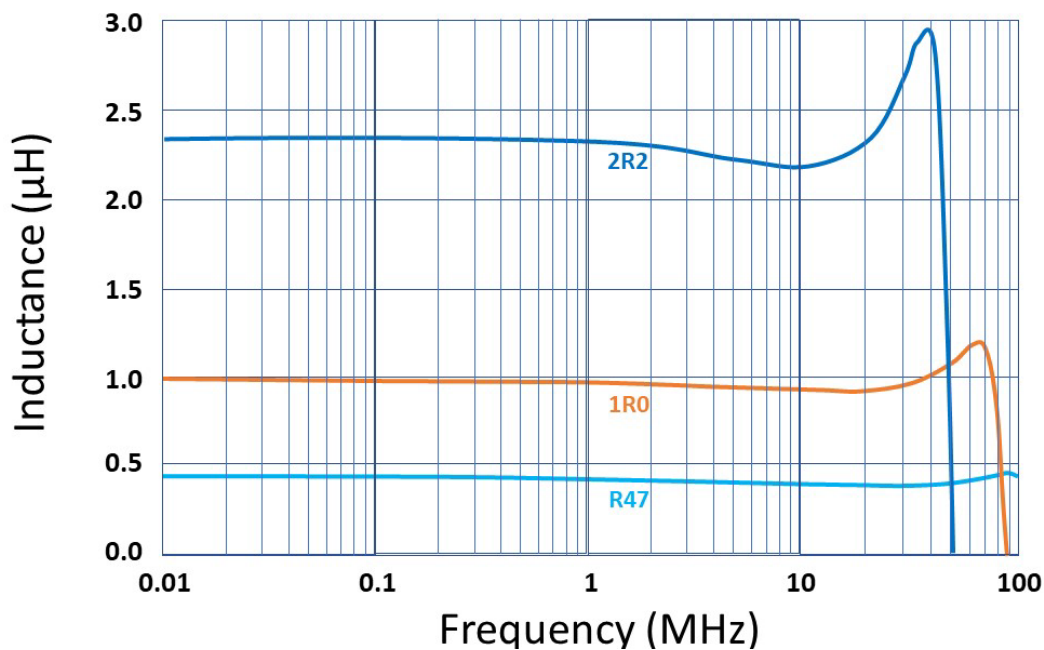
Saturation Current



Temperature Rise Current



Inductance Vs. Frequency



# MINI MOLDED POWER INDUCTOR



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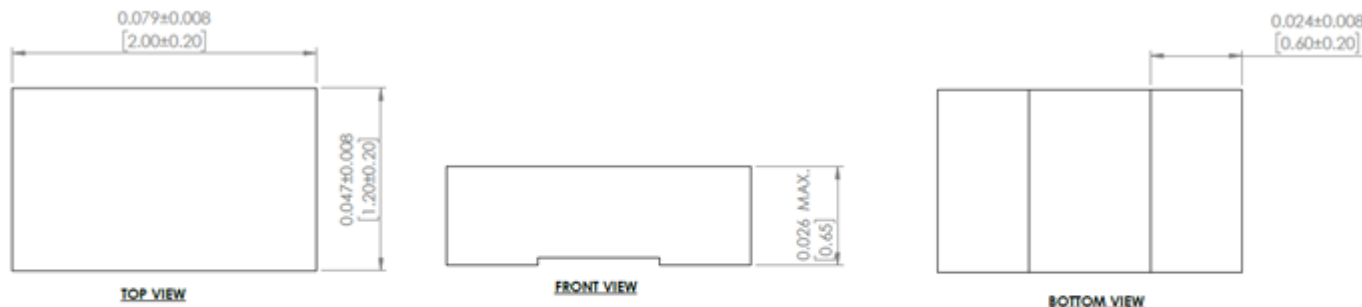


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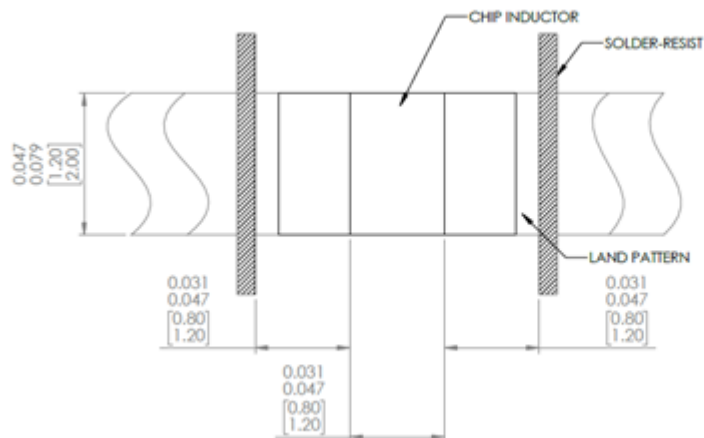


2.0 x 1.2 x 0.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Mechanical Specifications



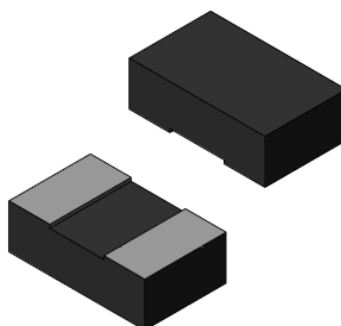
## Recommended Land Pattern



Dimensions: Inch[mm]

## Marking

No Marking



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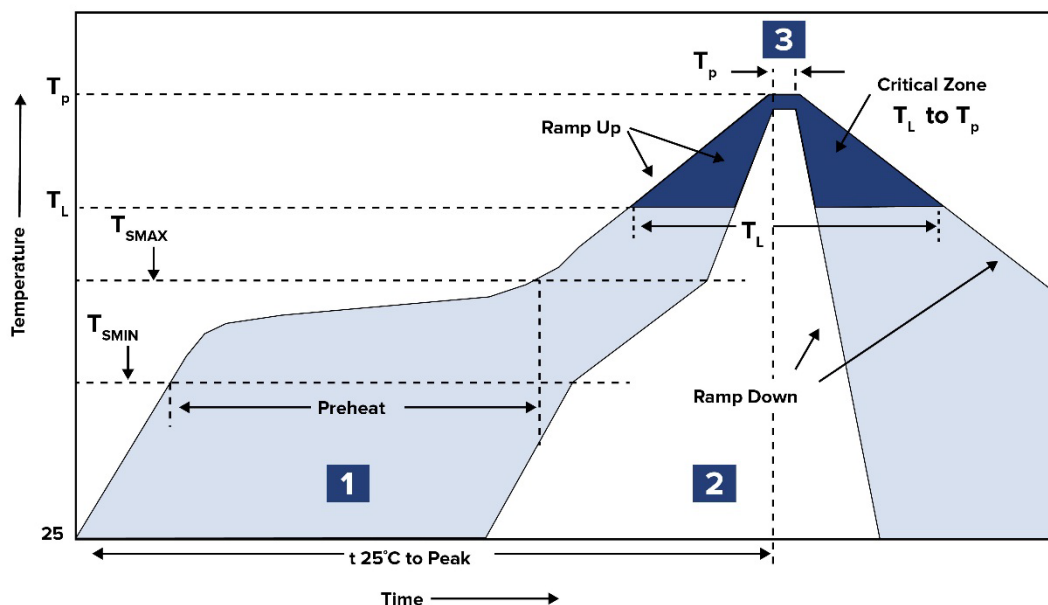


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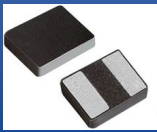
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RoHS/RoHS II Compliant  
MSL Level = 1

## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	T <sub>SMIN</sub> ~ T <sub>SMAX</sub> 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T <sub>L</sub> ≥217°C	60 ~ 90 sec.
3	Peak heat	T <sub>P</sub> 260°C Max	10 sec. MAX

# MINI MOLDED POWER INDUCTOR



**AOTA-B201206S**

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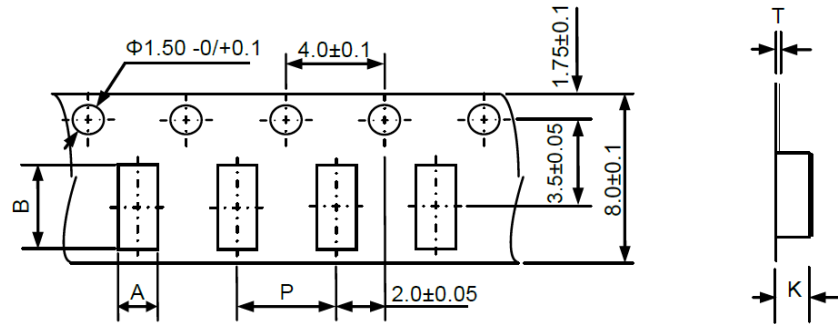
Check Inventory



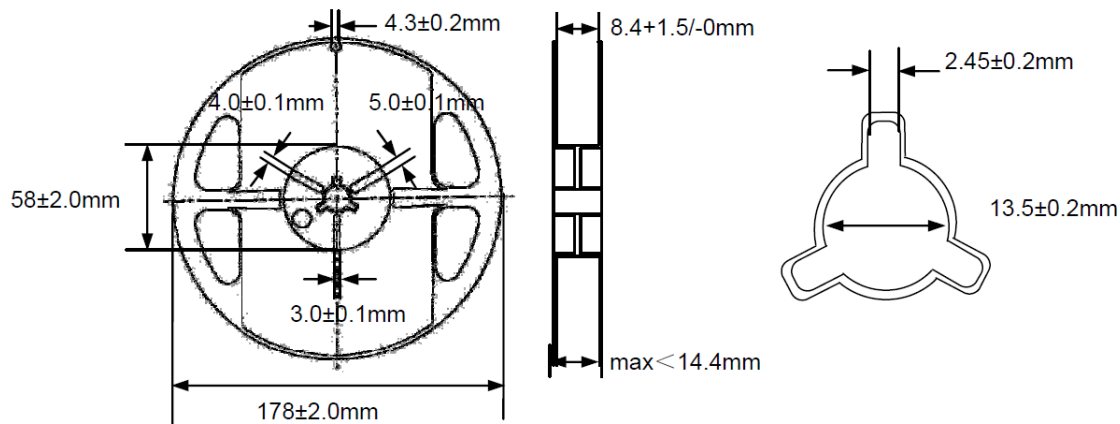
**2.0 x 1.2 x 0.6 mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Packaging

**Tape & Reel: 3000 pcs/reel**



A	B	P	K	T
$1.50 \pm 0.1$	$2.30 \pm 0.1$	$4.0 \pm 0.1$	1.0 Max	0.3 Max



Dimensions: mm

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