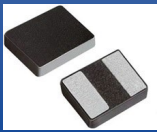


# MINI MOLDED POWER INDUCTOR



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.

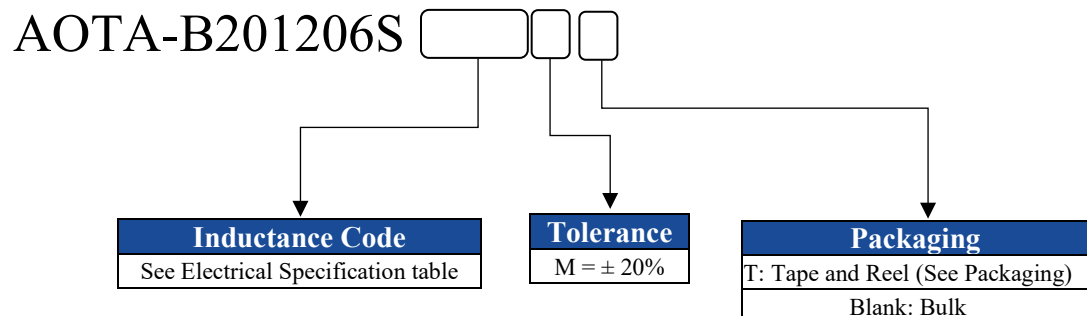
**Operating Temperature:** -40°C ~ +125°C (including self-temperature rise)

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

**Working Voltage:** 20V

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

## Part Identification



5101 Hidden Creek Ln, Spicewood TX 78669  
Phone: 512-371-6159 Fax: 512-351-8858  
For terms and conditions of sales, please visit:  
[www.abracon.com](http://www.abracon.com)

REVISION Initial Release :  
7/23/2025

ABRACON IS  
ISO9001-2015  
CERTIFIED

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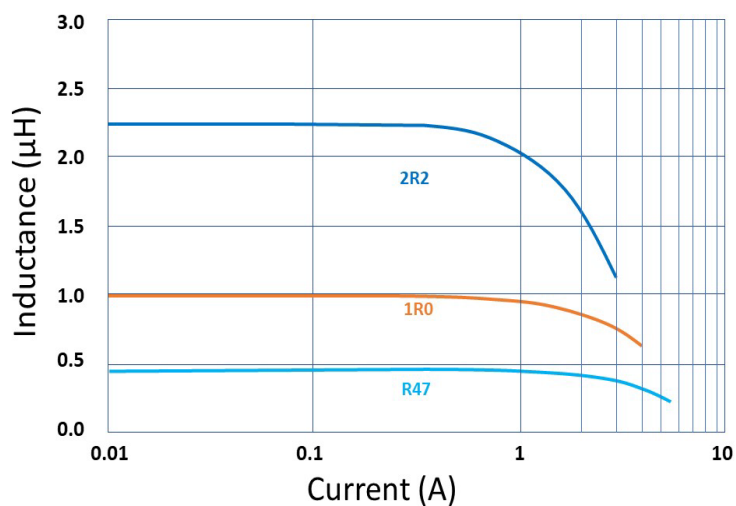
Check Inventory



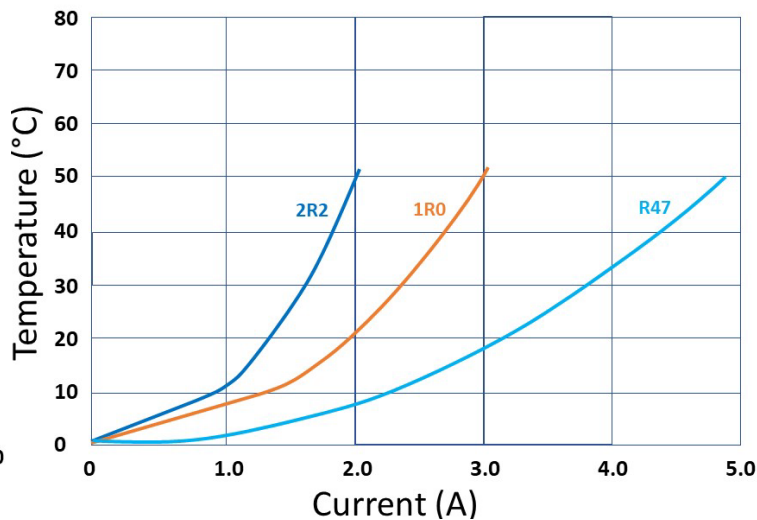
2.0 x 1.2 x 0.6 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Performance Graphs

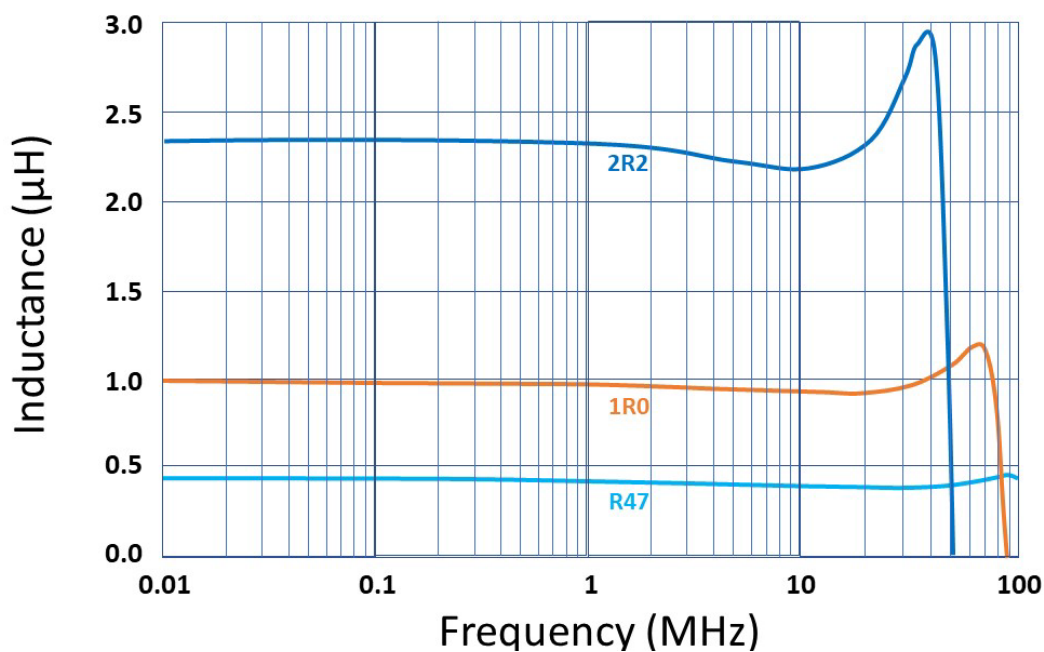
Saturation Current



Temperature Rise Current



Inductance Vs. Frequency



# MINI MOLDED POWER INDUCTOR



**AOTA-B201206S**

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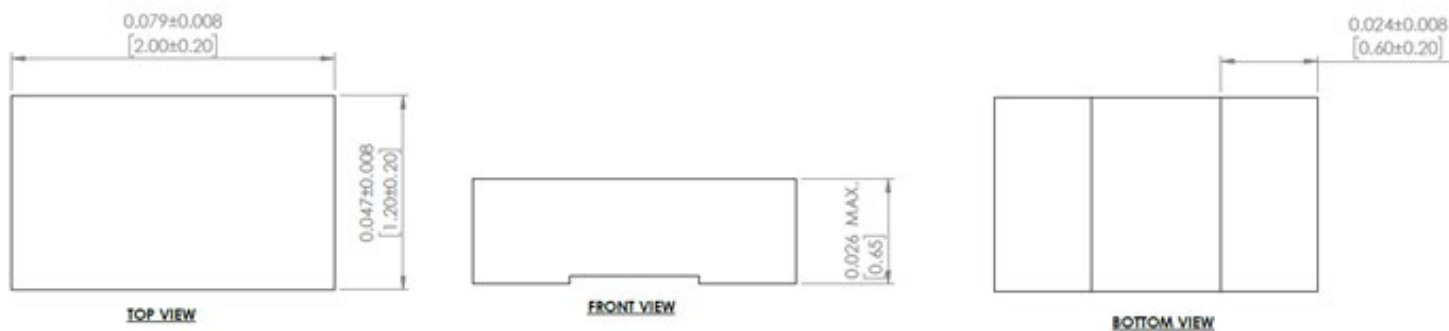


Check Inventory

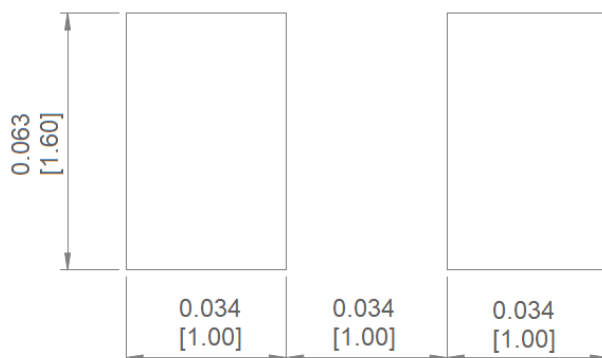


**2.0 x 1.2 x 0.6 mm**  
**RoHS/RoHS II Compliant**  
MSL Level = 1

## Mechanical Specifications



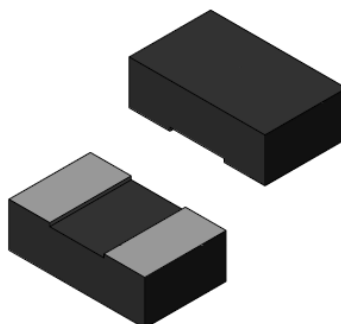
## Recommended Land Pattern (Typ.)



Dimensions: Inch[mm]

## Marking

No Marking



# MINI MOLDED POWER INDUCTOR



AOTA-B201206S

Request Samples

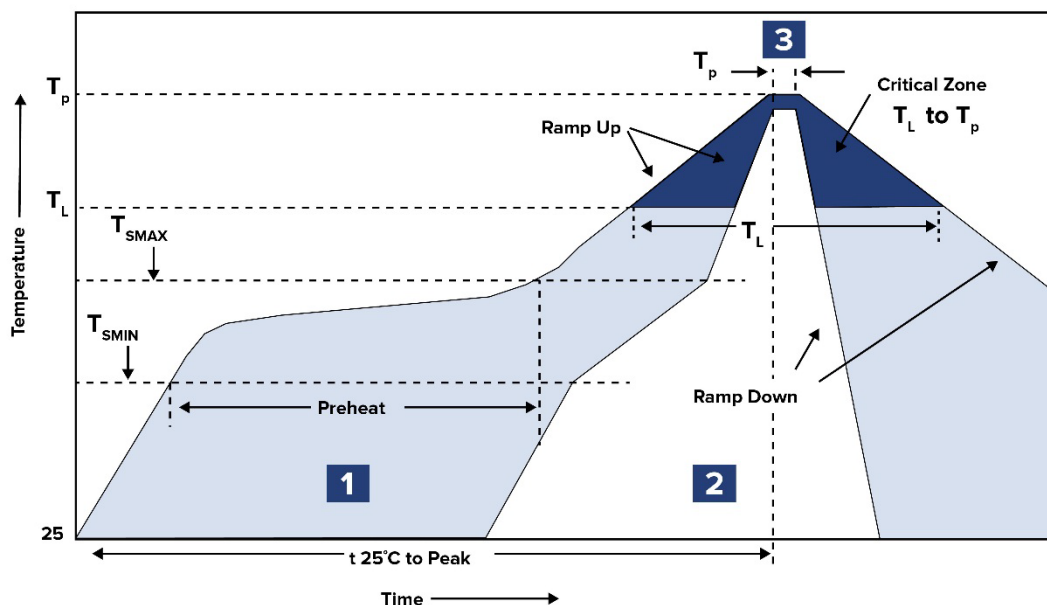


Check Inventory



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

## 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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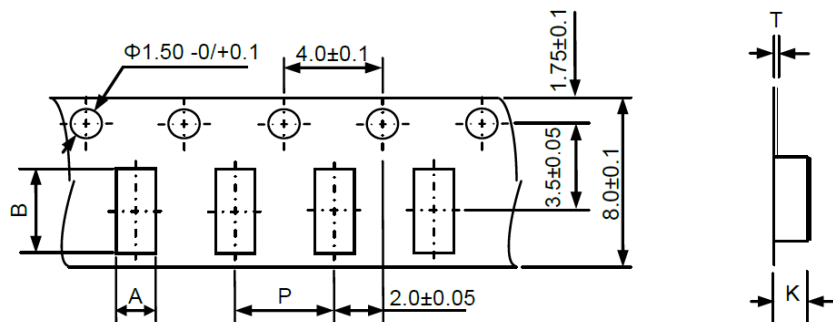
Check Inventory



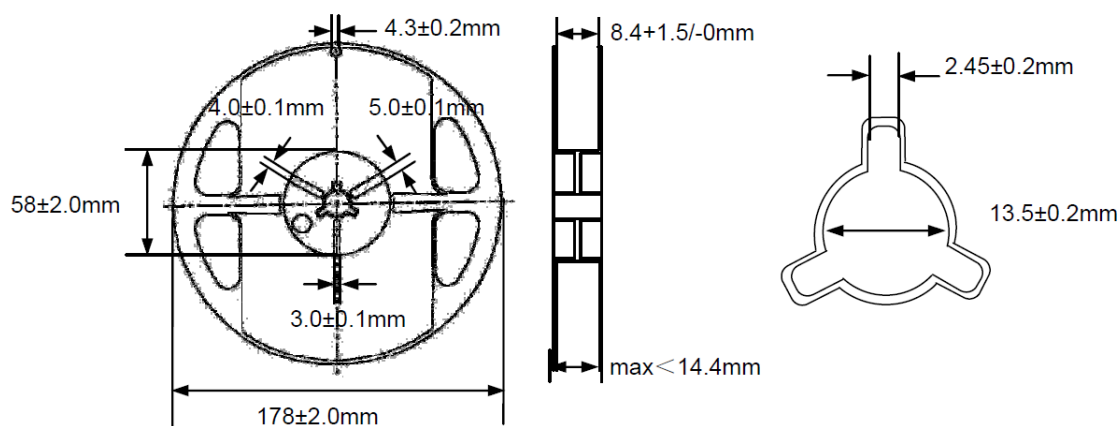
**2.0 x 1.2 x 0.6 mm**  
**RoHS/RoHS II Compliant**  
**MSL Level = 1**

## Packaging

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



A	B	P	K	T
1.50±0.1	2.30±0.1	4.0±0.1	1.0 Max	0.3 Max



Dimensions: mm

**ATTENTION:** Abracon LLC's products are Commercial-Off-The-Shelf (COTS), which are designed, intended and validated for use in commercial, industrial and automotive applications. The customer is responsible for testing and verifying the performance of an Abracon solution to meet their system-level requirements.



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