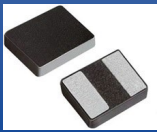


# MINI MOLDED POWER INDUCTOR



AOTA-B141208S

Request Samples



Check Inventory



1.4 x 1.2 x 0.8 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Features

- Shielded construction for minimized EMI.
- Low DCR (as low as 20mΩ) for better efficiency
- High current up to 7.0A handling capability.
- Compact size that is suitable for high-density designs
- Excellent high-frequency switching applications due to SRF up to 135MHz.

## 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-B141208SR24MT	0.24	20%	135	20	24	7.0	6.5	5.3	4.9
AOTA-B141208SR33MT	0.33	20%	130	23	27	5.6	5.2	4.2	4.0
AOTA-B141208SR47MT	0.47	20%	110	28	32	4.2	4.0	3.6	3.2

## 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.

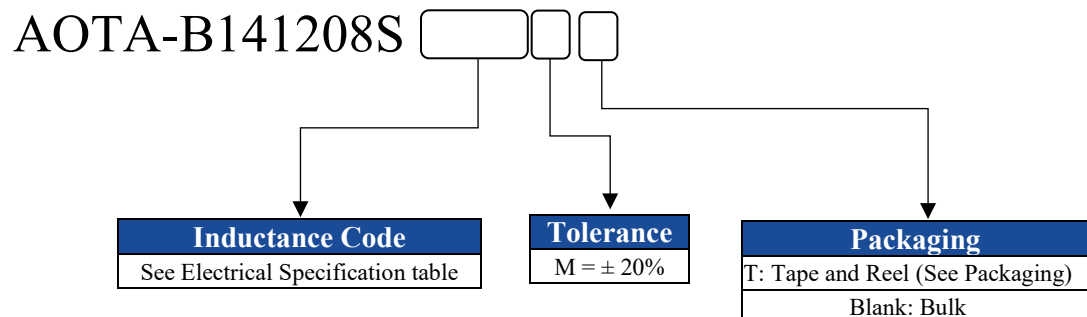
**Operating Temperature:** -40°C ~ +125°C (including self-temperature rise)

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

**Working Voltage:** 20V

AOTA-B141208S 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

# MINI MOLDED POWER INDUCTOR



AOTA-B141208S

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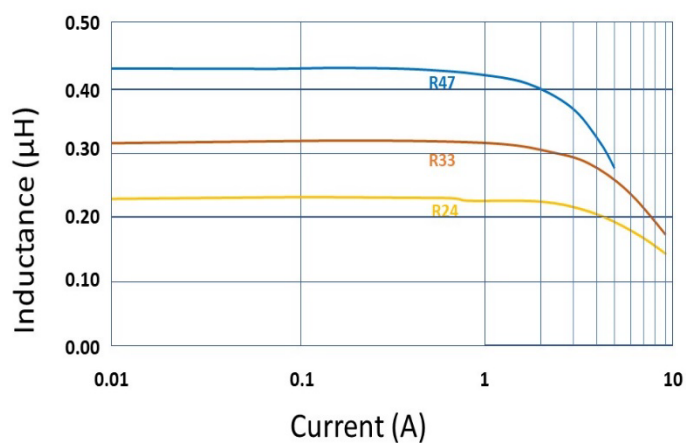
Check Inventory



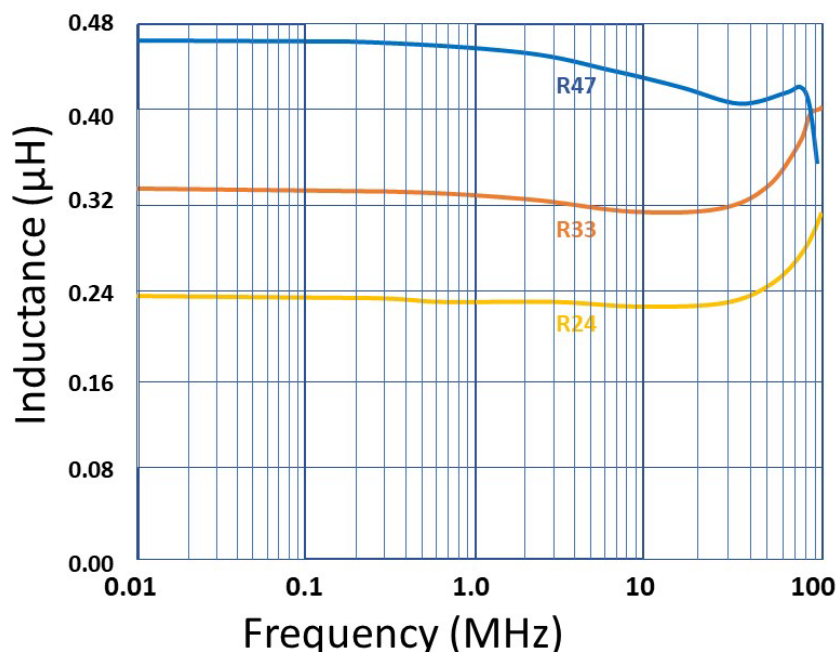
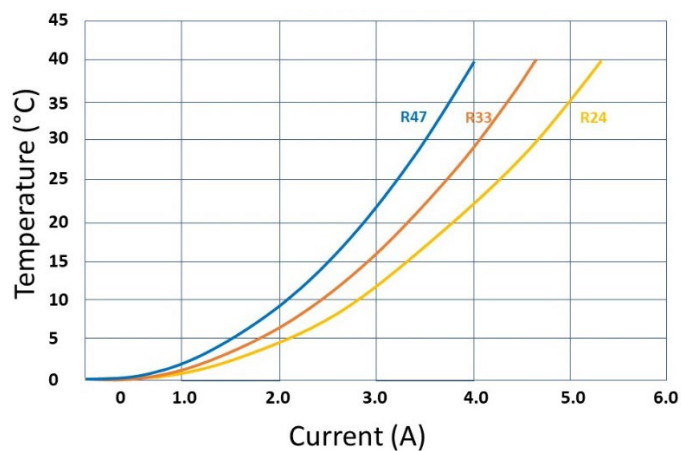
1.4 x 1.2 x 0.8 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Performance Graphs

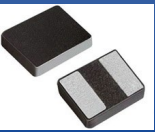
Saturation Current



Temperature Rise Current



# MINI MOLDED POWER INDUCTOR



**AOTA-B141208S**

Request Samples

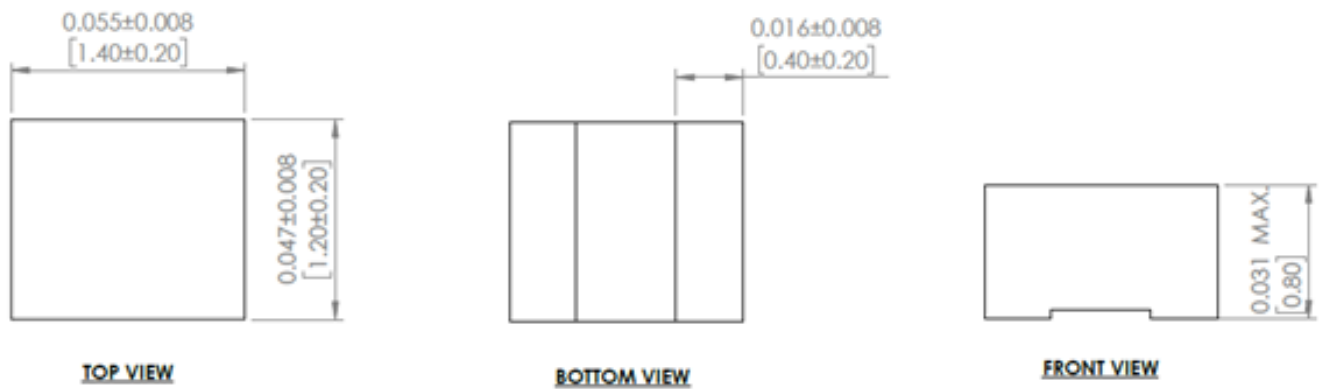


Check Inventory

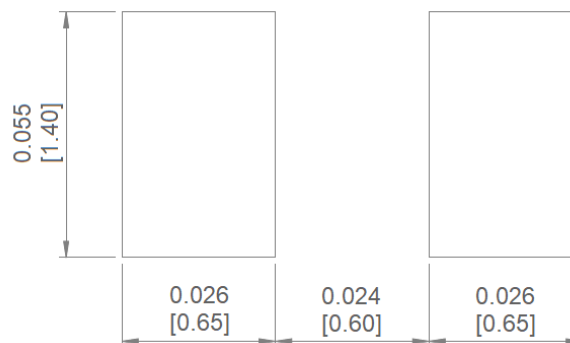


1.4 x 1.2 x 0.8 mm  
**RoHS/RoHS II Compliant**  
MSL Level = 1

## Mechanical Specifications



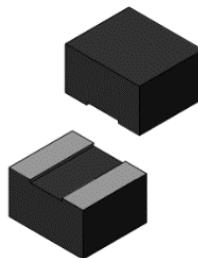
## Recommended Land Pattern (Typ.)



Dimensions: Inch[mm]

## Marking

No Marking



# MINI MOLDED POWER INDUCTOR



AOTA-B141208S

Request Samples

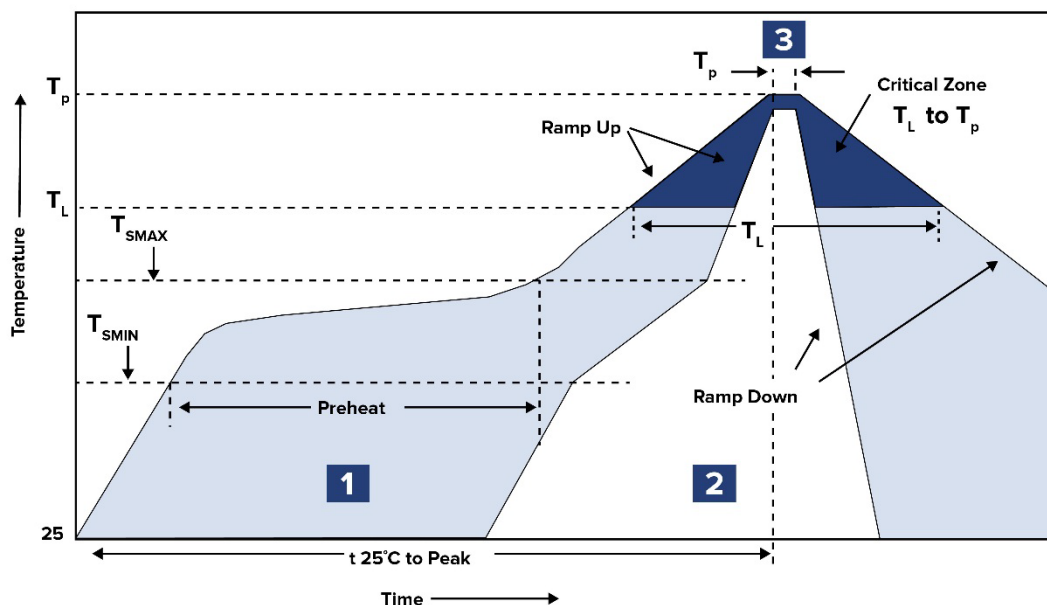


Check Inventory



1.4 x 1.2 x 0.8 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-B141208S**

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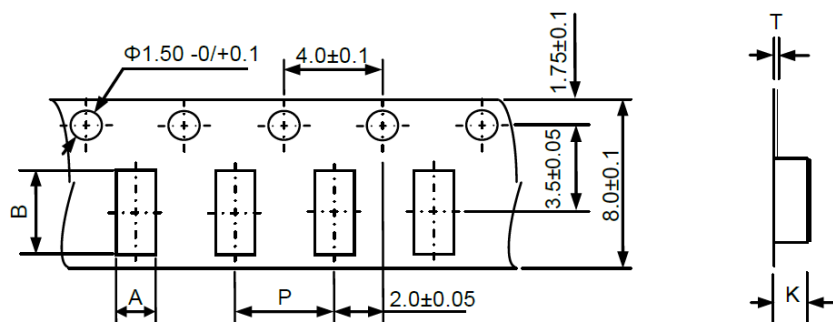
Check Inventory



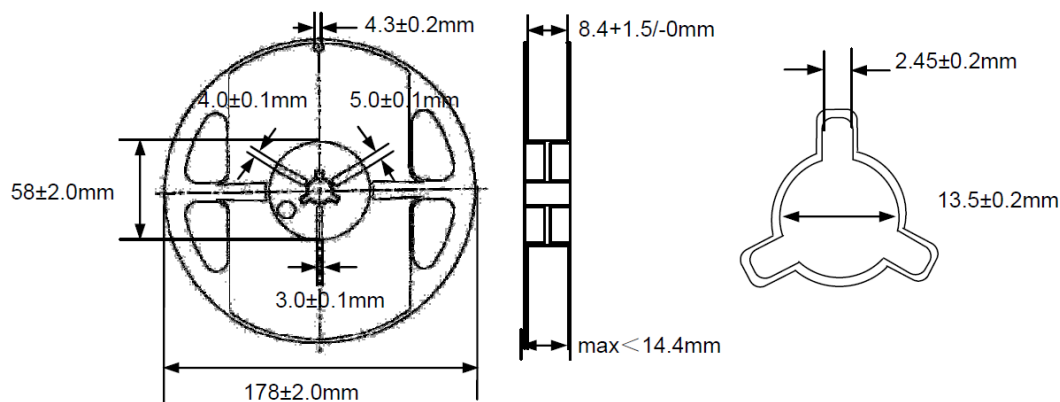
1.4 x 1.2 x 0.8 mm  
RoHS/RoHS II Compliant  
MSL Level = 1

## Packaging

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



A	B	P	K	T
$1.50 \pm 0.1$	$1.70 \pm 0.1$	$4.0 \pm 0.1$	1.10 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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