

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	
				Min.	Typ	Max	Typ	Max	Typ
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 (ΔT , 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

AOTA-B141208S**Inductance Code**

See Electrical Specification table

Tolerance

M = ± 20%

Packaging

T: Tape and Reel (See Packaging)

Blank: Bulk

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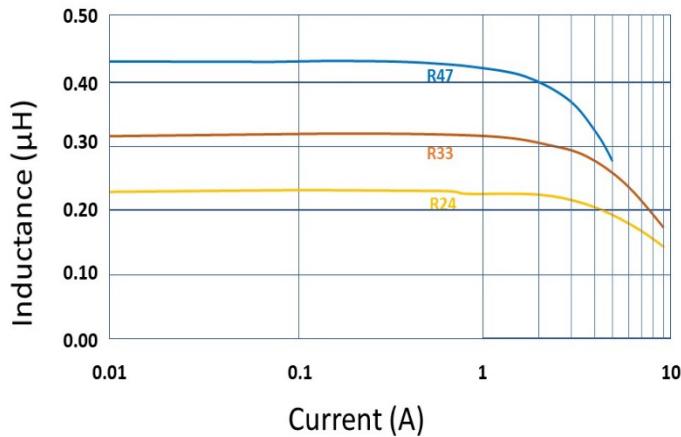
Check Inventory



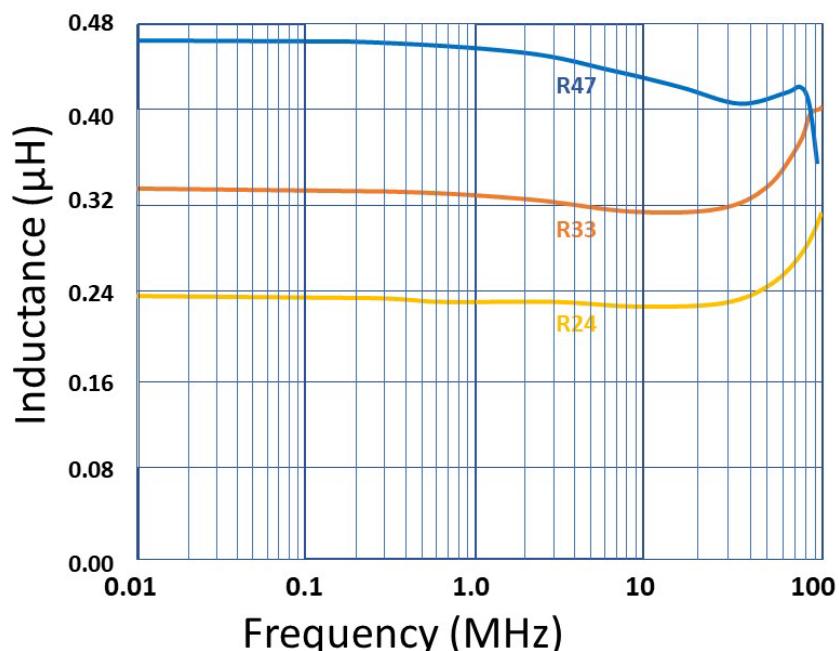
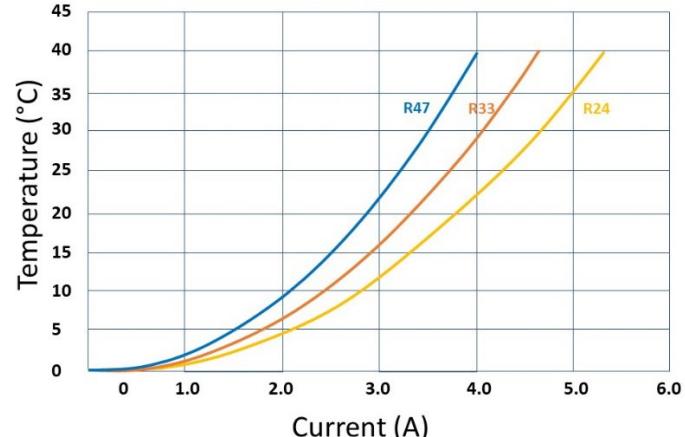
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Performance Graphs

Saturation Current



Temperature Rise Current



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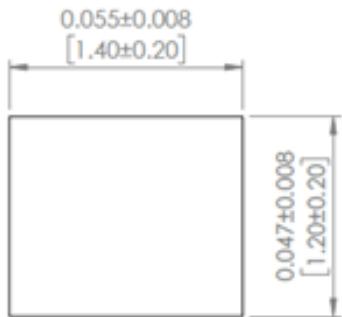


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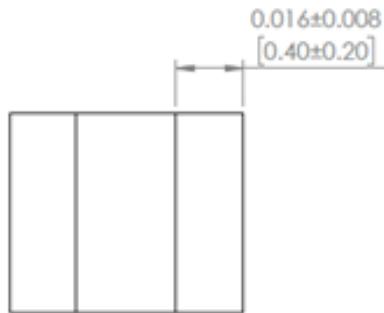


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Mechanical Specifications



TOP VIEW

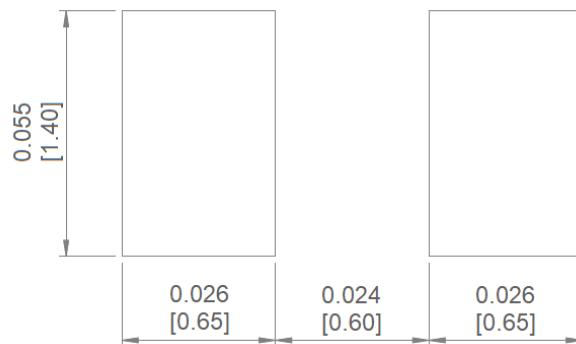


BOTTOM VIEW



FRONT VIEW

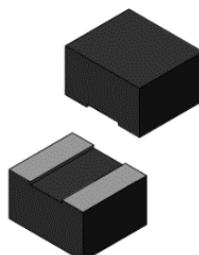
Recommended Land Pattern (Typ.)



Dimensions: Inch[mm]

Marking

No Marking



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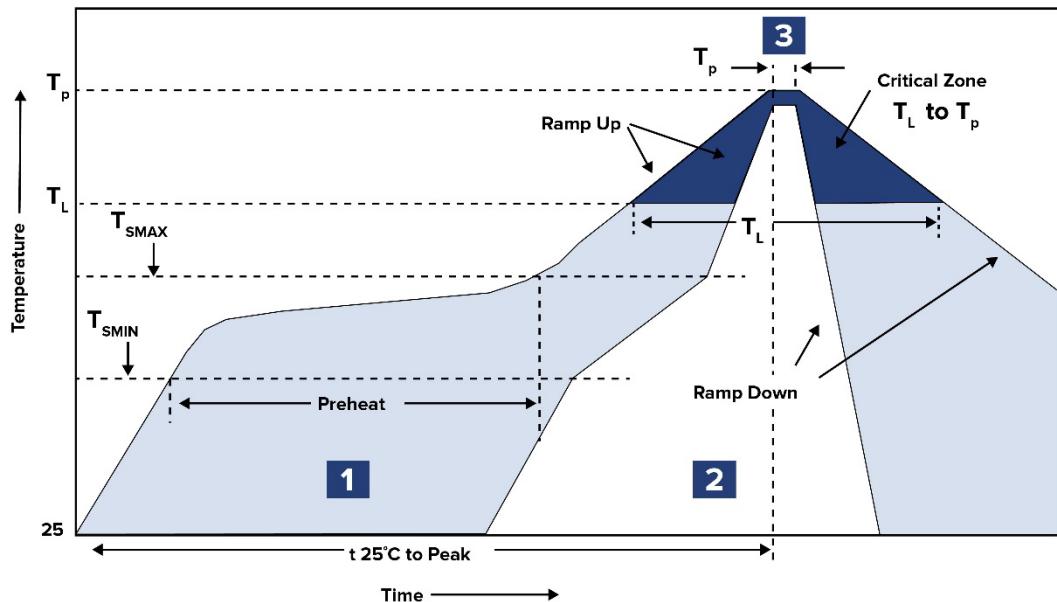


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ $150^{\circ}\text{C} \sim 200^{\circ}\text{C}$	60 ~ 120 sec.
2	Reflow	T_l $\geq 217^{\circ}\text{C}$	60 ~ 90 sec.
3	Peak heat	T_p 260°C Max	10 sec. MAX

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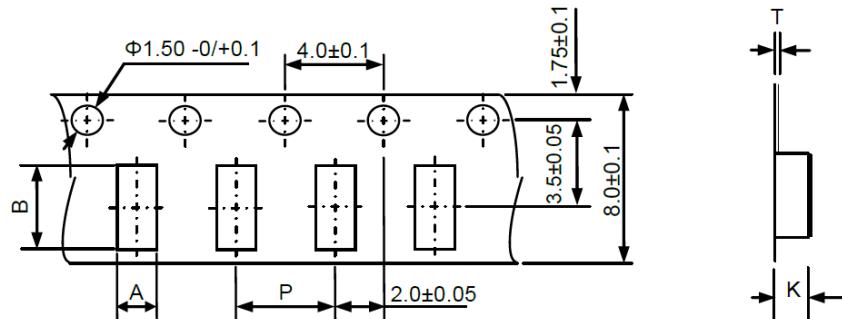
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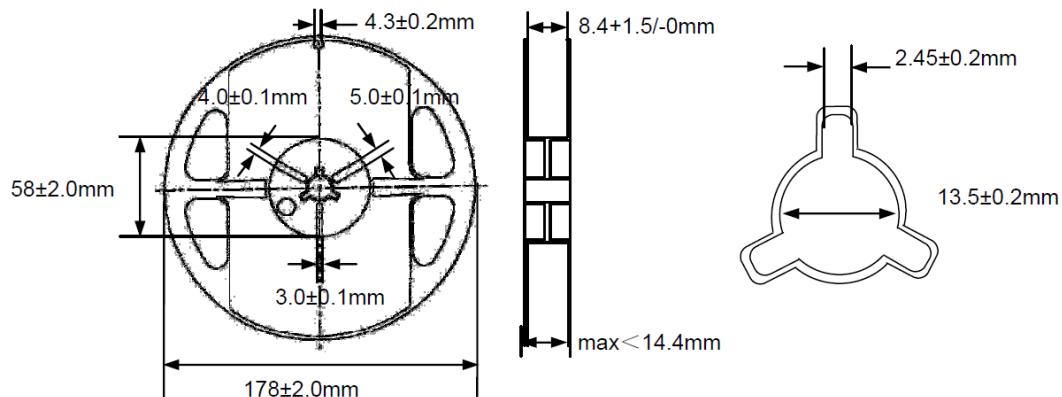
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Packaging

Tape & Reel: 3000 pcs/reel



A	B	P	K	T
1.50±0.1	1.70±0.1	4.0±0.1	2.0±0.05	1.10 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.



ABRACON

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