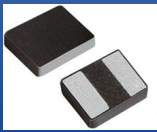


MINI MOLDED POWER INDUCTOR



AOTA-B201208S

Request Samples



Check Inventory



2.0 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 10mΩ) for better efficiency
- High current up to 11A handling capability
- Compact size that is suitable for high-density designs
- Excellent for high-frequency switching applications due to SRF up to 185MHz.

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-B201208SR11MT	0.11	20%	185	10	13	11	10	6.5	5.6
AOTA-B201208SR24MT	0.24	20%	130	16	19	7.2	6.5	6.0	5.4
AOTA-B201208SR33MT	0.33	20%	125	23	28	6.2	5.6	4.3	4.0
AOTA-B201208SR47MT	0.47	20%	96	22	25	4.8	4.5	4.4	4.0
AOTA-B201208S1R0MT	1.0	20%	60	46	50	3.5	3.3	3.5	3.2
AOTA-B201208S2R2MT	2.2	20%	42	120	130	2.1	1.9	2.0	1.8

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.

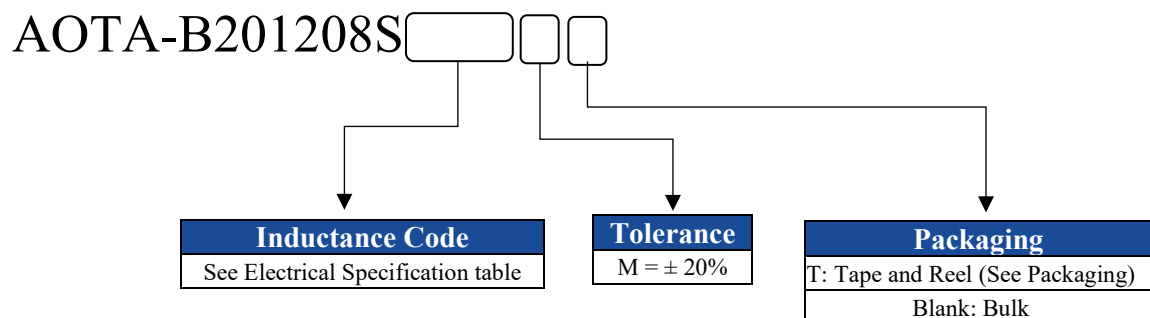
Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

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

Working Voltage: 20V

AOTA-B201208S Series is **RoHS Compliant and Pb free.**

Part Identification

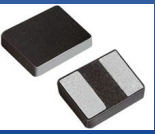


5101 Hidden Creek Ln, Spicewood TX 78669
Phone: 512-371-6159 Fax: 512-351-8858
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7/23/2025

ABRACON IS
ISO9001-2015
CERTIFIED

MINI MOLDED POWER INDUCTOR



AOTA-B201208S

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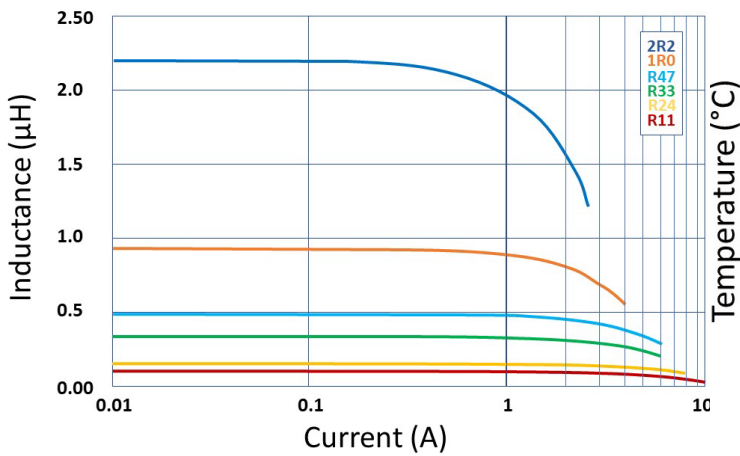
Check Inventory



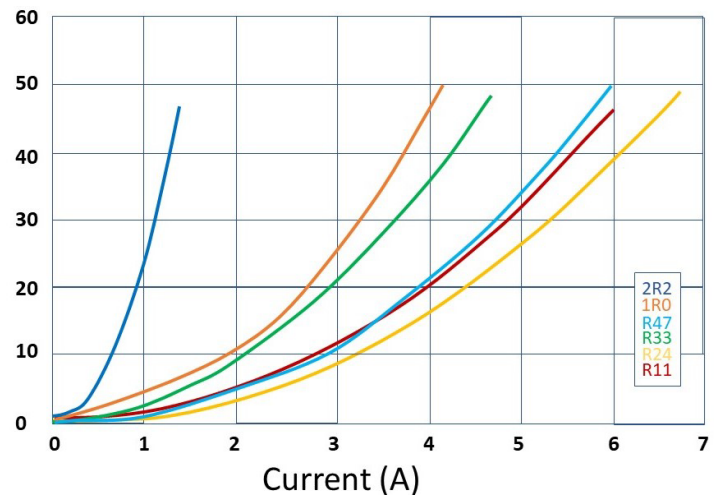
2.0 x 1.2 x 0.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Performance Graphs

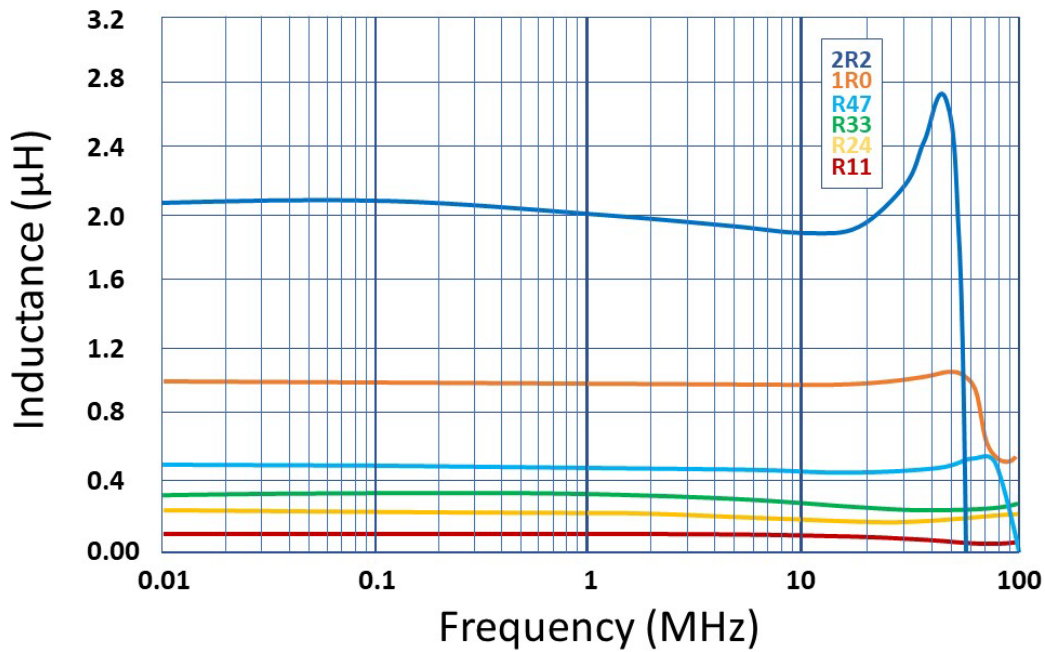
Saturation Current



Temperature Rise Current



Inductance vs. Frequency



MINI MOLDED POWER INDUCTOR



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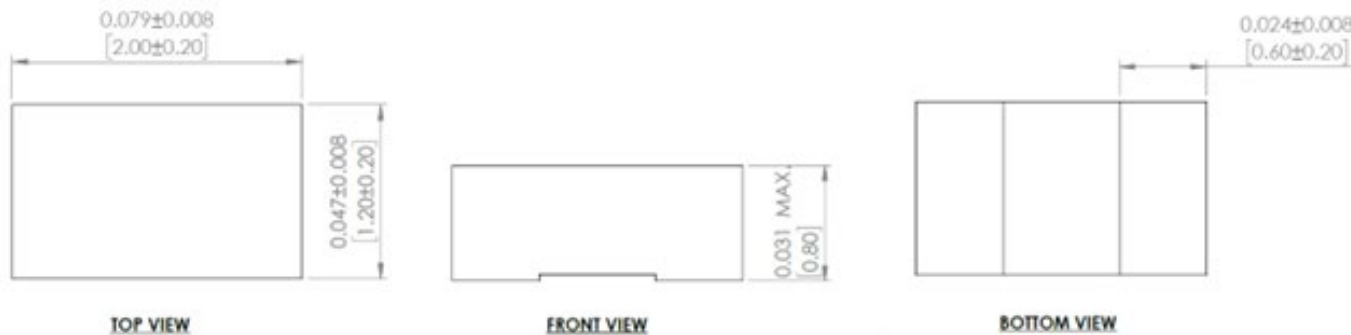


Check Inventory

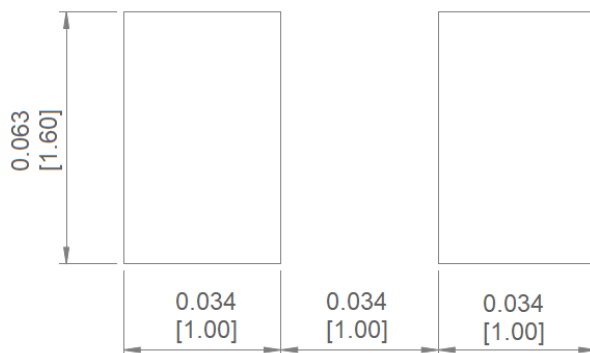


2.0 x 1.2 x 0.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Mechanical Specifications



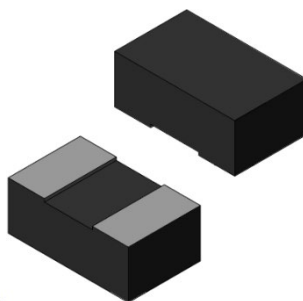
Recommended Land Pattern (Typ.)



Dimensions: Inch[mm]

Marking

No Marking



MINI MOLDED POWER INDUCTOR



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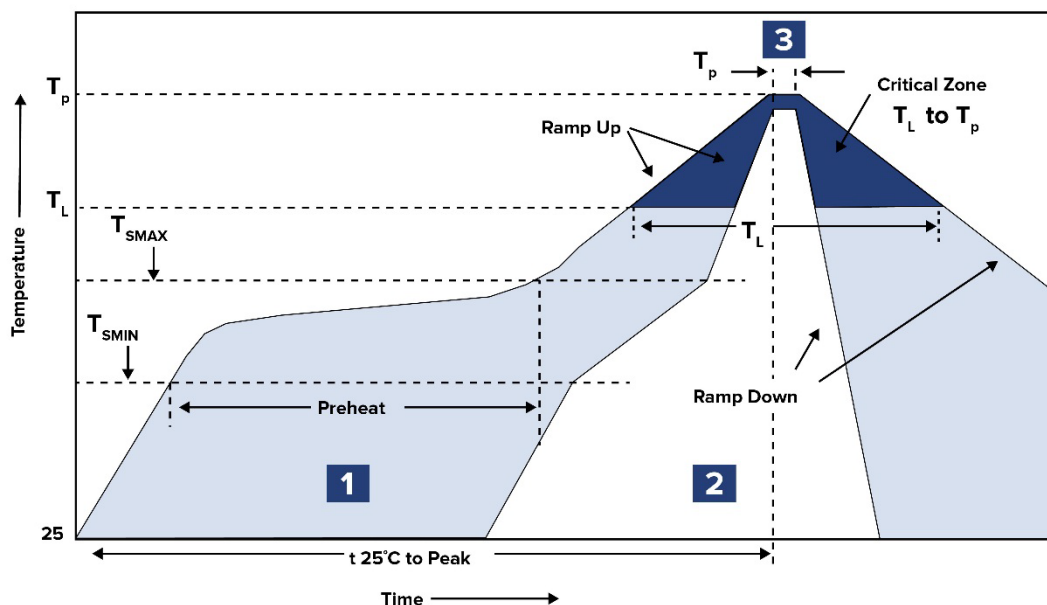


Check Inventory



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

Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°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

MINI MOLDED POWER INDUCTOR



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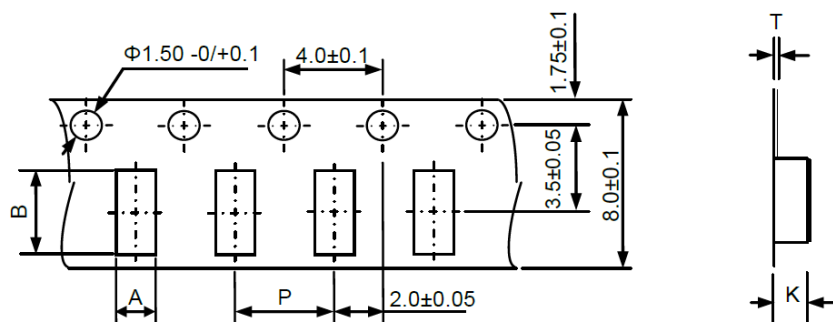
Check Inventory



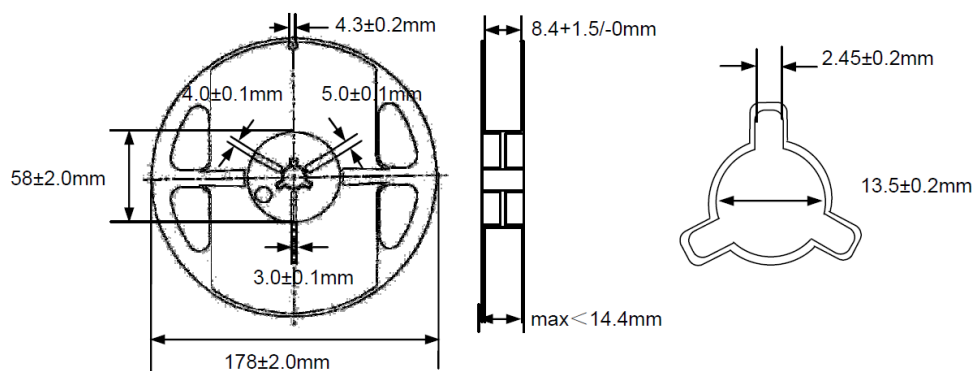
2.0 x 1.2 x 0.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Packaging

Tape & Reel: 3000 pcs/reel



A	B	P	K	T
1.50 ± 0.1	2.30 ± 0.1	4.0 ± 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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