MINI MOLDED POWER INDUCTOR

Request Samples 🕥

Check Inventory

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

Features

• Shielded construction for minimized EMI emissions

AOTA-B252008S

- Low DCR for better efficiency
- High current handling capability
- Compact size that is suitable for high-density designs
- Fit for high-frequency switching applications due to high SRF

Applications

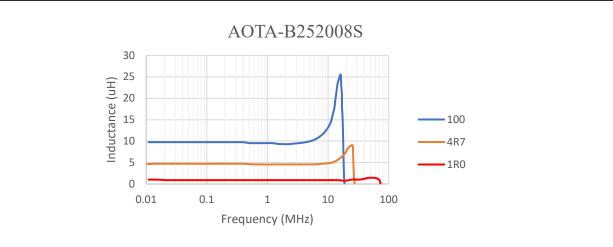
- Consumer electronics and portable devices
- Power electronics such as DC-DC converters, inverters and voltage regulators
- Industrial applications, robotics, signal conditioning, instrumentation and control systems
- IoT devices, smart home, automation systems and wireless sensing

Part Number	Inductance	Tolerance	rrequency	DC Resistance		Saturation Current		Temperature Rise Current	
	1MHz/1.0V		Min.	Тур	Max	Тур	Max	Тур	Max
Units	μH	%	MHz	mΩ		Α		Α	
Symbol	L	Μ	SRF	D	CR	Is	at	Irı	ms
AOTA-B252008S1R0MT	1.0	20	56	39	46	4.8	4.3	3.8	3.5
AOTA-B252008S4R7MT	4.7	20	20	165	180	1.95	1.75	2.0	1.8
AOTA-B252008S100MT	10.0	20	14	507	570	1.4	1.20	1.05	0.95

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.
AOTA-B252008S Series is RoHS Compliant and Pb free.

Performance Graphs



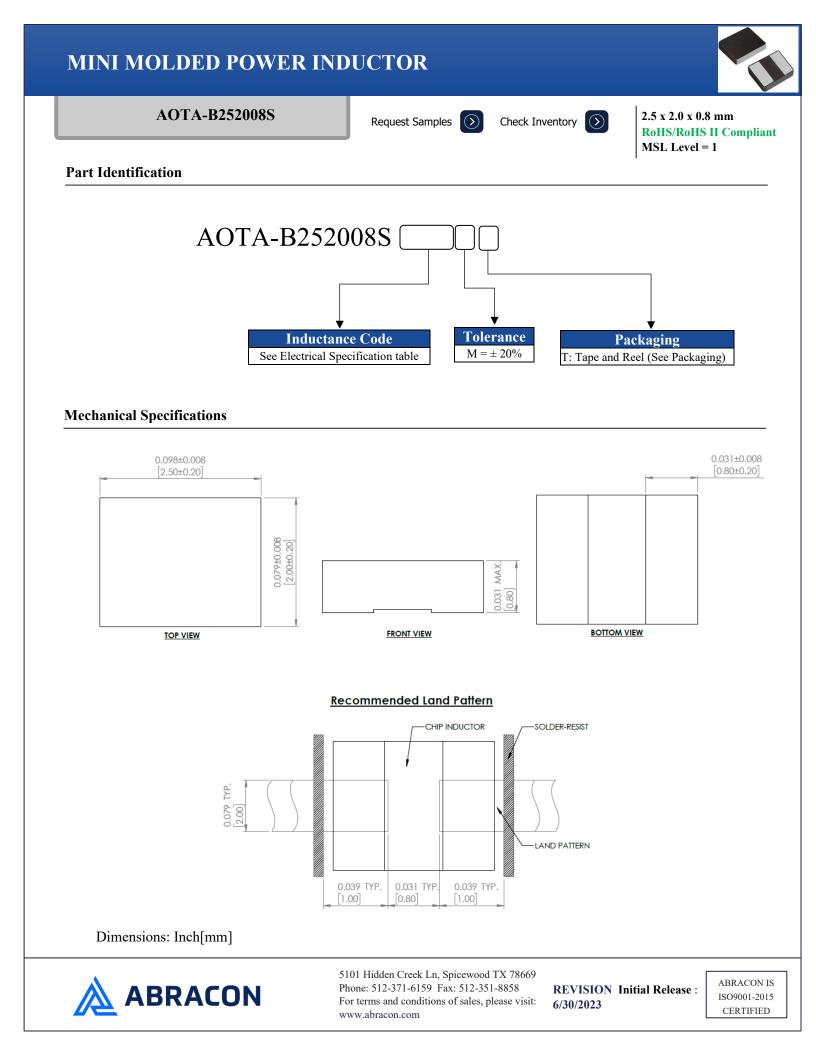


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REVISION Initial Release : 6/30/2023

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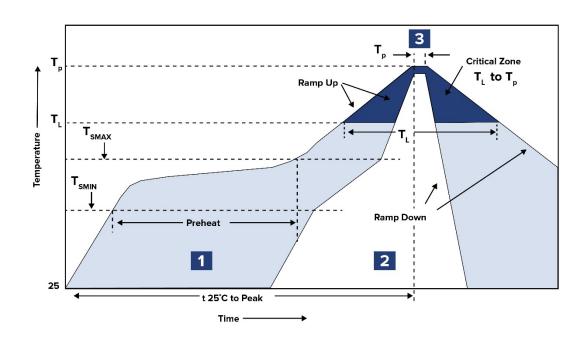
Electrical Specifications



MINI MOLDED POWER INDUCTOR AOTA-B252008S Request Samples Image: Check Inventory Image: Samples 2.5 x 2.0 x 0.8 mm RoHS/RoHS II Compliant MSL Level = 1 Marking Marking Image: Samples <

No Marking

Reflow Profile



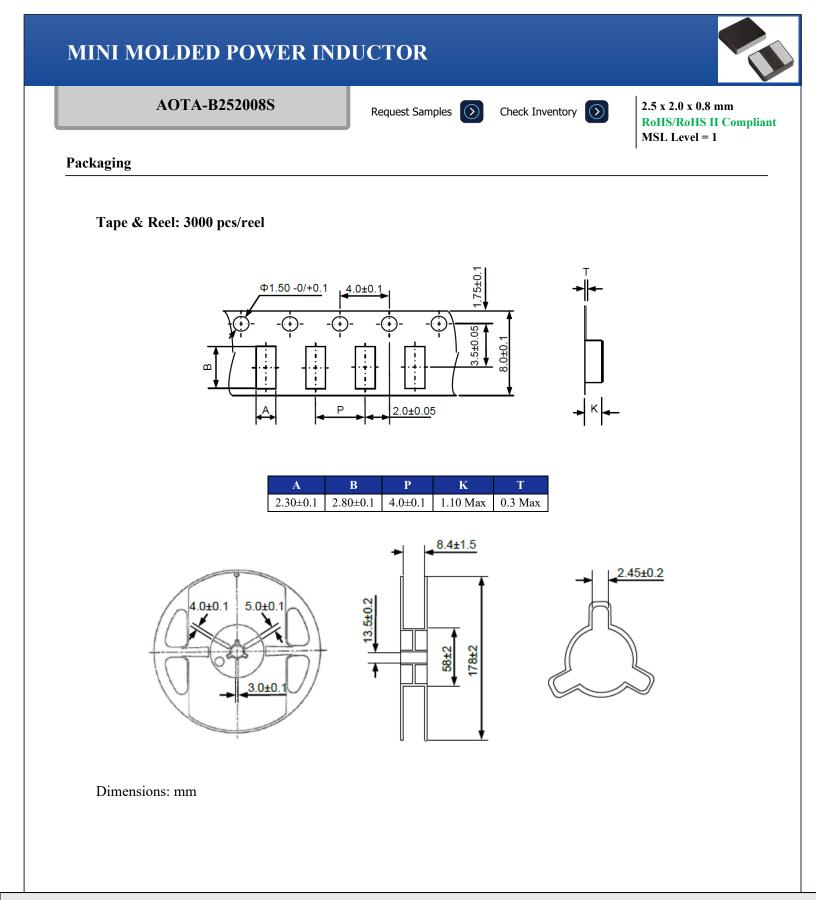
Zone	Description	Temperature	Times
1	Preheat	$\begin{array}{l} T_{SMIN} \sim T_{SMAX} \\ 150^{\circ}C \sim 200^{\circ}C \end{array}$	$60 \sim 120$ sec.
2	Reflow	Т _L 217°С	60 ~ 90 sec.
3	Peak heat	T _P 260°C Max	10 sec. MAX



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