

MINI MOLDED POWER INDUCTOR



AOTA-B160808S

Request Samples



Check Inventory



1.6 x 0.8 x 0.8 mm
RoHS/RoHS II Compliant
MSL Level = 1

Features

- Shielded construction for minimized EMI emissions.
- Low DCR for better efficiency
- High current handling capability
- Combat 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 converters, inverters, and voltage regulators
- Industrial applications, robotics, signal conditioning, instrumentation, and control systems
- IoT devices, smart home, automation systems, 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	m Ω		A		A	
Symbol	L	M	SRF	DCR		Isat		Irms	
AOTA-B160808SR47MT	0.47	20	100	38	43	3.6	3.3	3.3	3.0
AOTA-B160808S1R0MT	1.0	20	60	95	110	2.3	2.1	2.0	1.8
AOTA-B160808S2R2MT	2.2	20	40	240	290	1.3	1.2	1.1	1.0

Test Conditions

Isat: DC current at which the inductance drops 30% from its value without current.

Irms: DC current that causes the temperature rise (ΔT , approximate 40 °C) from 25°C ambient

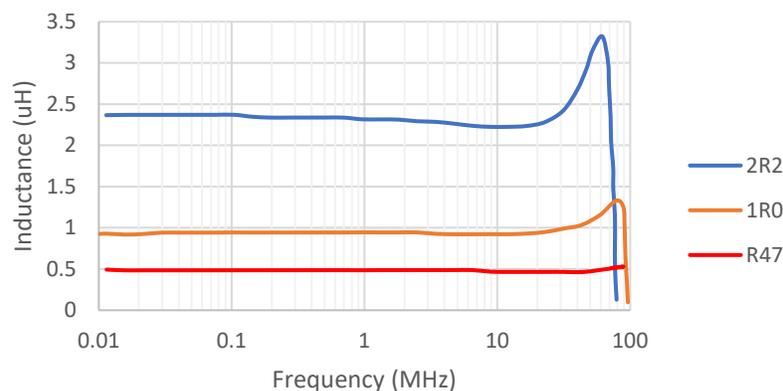
Operating Temperature: -40°C ~ +125°C (including self-temperature rise)

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

AOTA-B160808S Series is RoHS Compliant and Pb free

Performance Graphs

AOTA-B160808S



5101 Hidden Creek Ln, Spicewood TX 78669
 Phone: 512-371-6159 Fax: 512-351-8858
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REVISION Initial Release :
6/30/2023

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Part Identification

AOTA-B160808S

Inductance Code

See Electrical Specification table

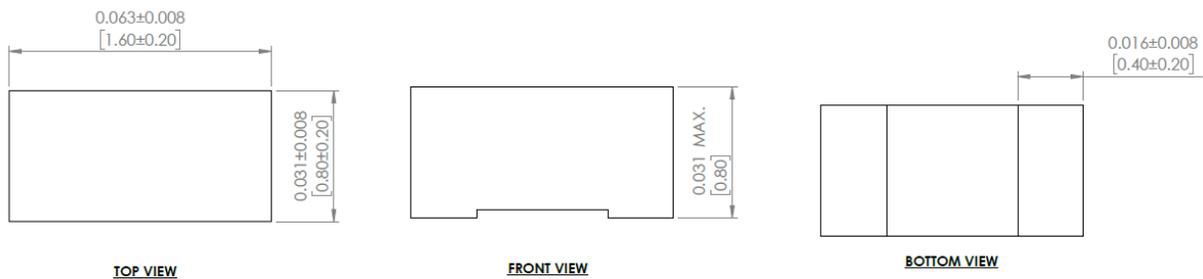
Tolerance

M = ± 20%

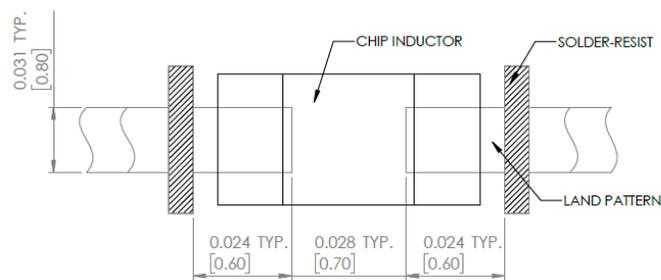
Packaging

T: Tape and Reel (See Packaging)

Mechanical Specifications



Recommended Land Pattern



Dimensions: Inch[mm]

Marking

No Marking



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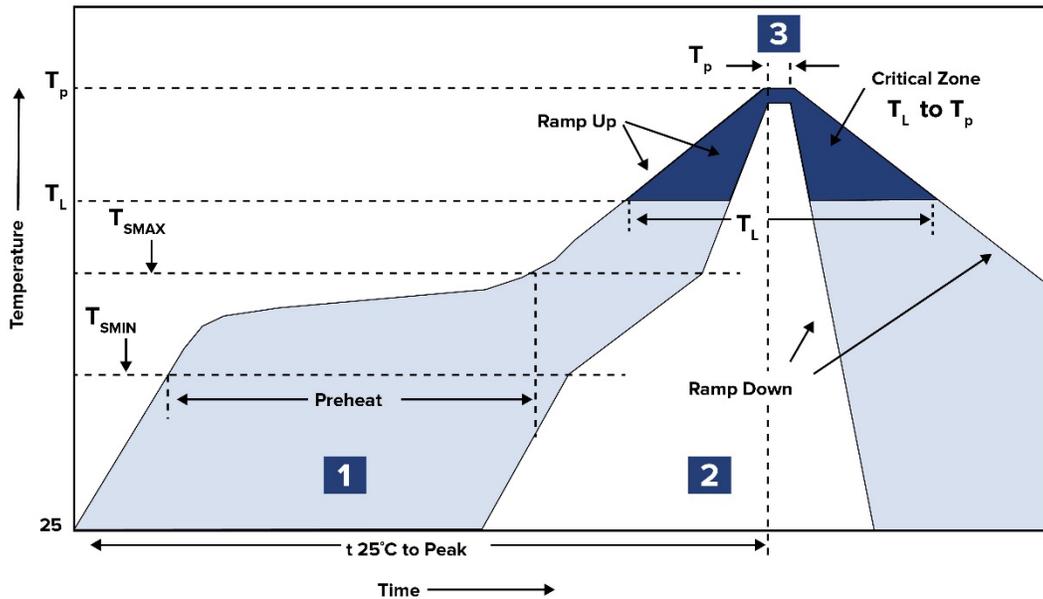


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Reflow Profile



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

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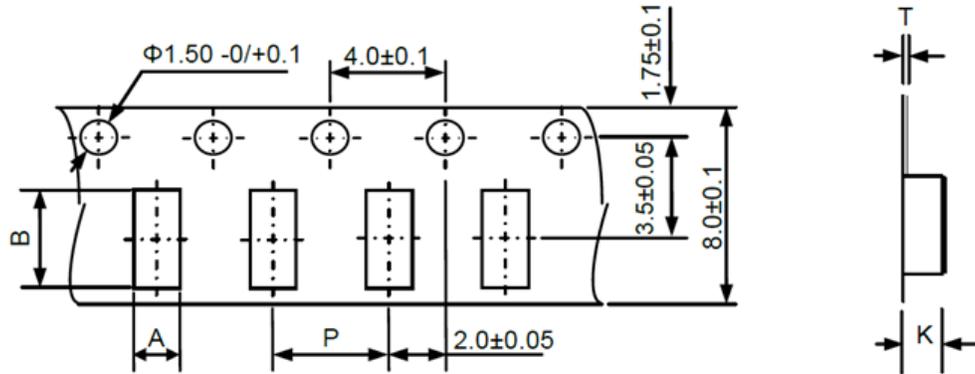
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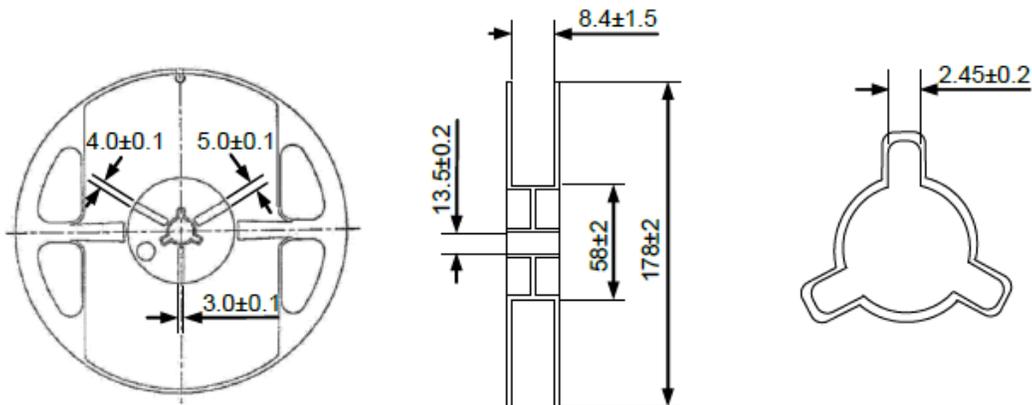
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Packaging

Tape & Reel: 3000 pcs/reel



A	B	P	K	T
1.10±0.1	1.90±0.1	4.0±0.1	1.10 Max	0.3 Max



Dimensions: mm

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