

METAL ALLOY MULTILAYER CHIP POWER INDUCTOR



ASMPM-0806 Series

Request Samples



Check Inventory



2.0 x 1.6 x 1.0 mm
RoHS/RoHS II Compliant
MSL Level = 2

Features

- Miniature metal alloy chip inductor
- High-current capability in a compact 2.0 x 1.6mm size
- Low profile (1.0mm max) for height-restricted applications
- Up to 4.5A saturation current
- High inductance up to 4.7μH
- Wide operating temperature range: -40°C to 125°C
- Shielded construction reduces EMI

Applications

- IoT and IIoT
- Wearables
- Hand-held devices
- Audio/Video, cameras and speakers
- Drones
- Medical monitoring
- Compact, energy-efficient lighting
- Battery-operated devices
- DC-DC supplies for battery chargers, Bluetooth and RF modules

Electrical Specifications

Part Number	Inductance	Tolerance	DC Resistance	Saturation Current		Temperature Rise Current	
	1MHz/1V		Max	Typ	Max	Typ	Max
Units	μH	%	mΩ	A		A	
Symbol	L	M	DCR	Isat		Irms	
ASMPM-0806-R47	0.47	±20%	40	4.50	4.00	3.60	3.10
ASMPM-0806-1R0	1.0	±20%	70	3.40	3.10	2.60	2.20
ASMPM-0806-1R5	1.5	±20%	110	2.80	2.50	2.10	1.80
ASMPM-0806-2R2	2.2	±20%	168	2.20	2.00	1.60	1.40
ASMPM-0806-3R3	3.3	±20%	225	1.90	1.50	1.40	1.20
ASMPM-0806-4R7	4.7	±20%	360	1.50	1.30	1.10	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)

ASMPM-0806 Series is **RoHS Compliant and Pb free.**

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Part Identification

ASMPM - 0806 - -

Inductance Code

Please refer to
Electrical Spec table

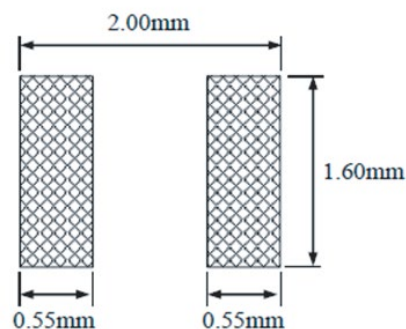
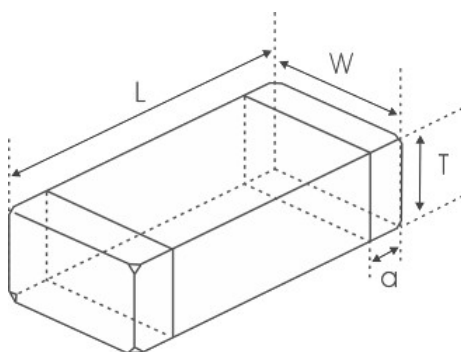
Tolerance

M: $\pm 20\%$

Packaging

T: Tape and Reel (3k pcs / reel)

Mechanical Specifications



Series	L	W	T	a
ASMPM-0806	2.0 ± 0.2	1.6 ± 0.2	1.0 Max.	0.5 ± 0.3

Dimension: mm

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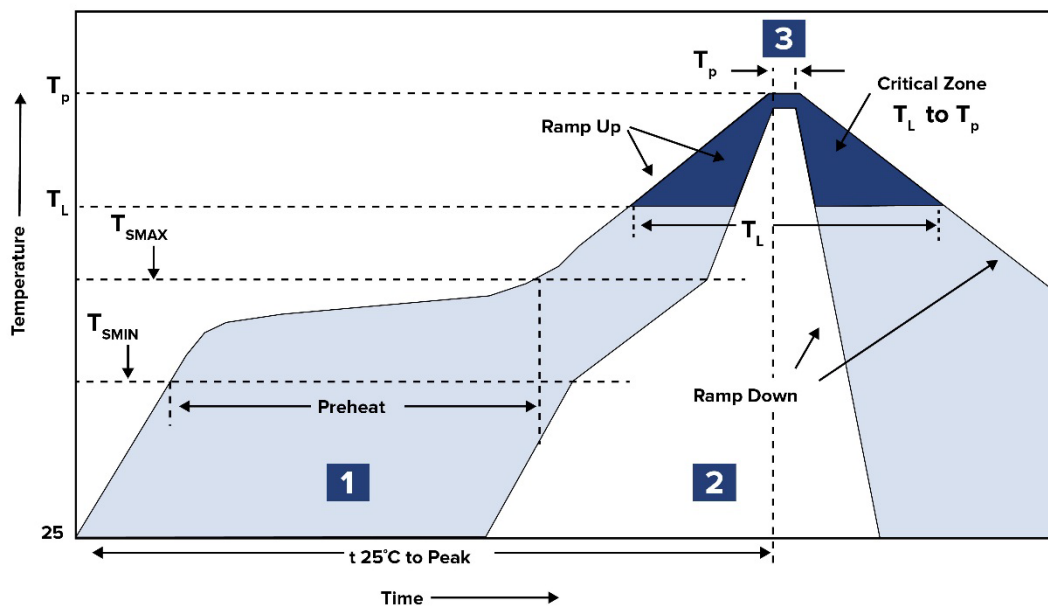


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Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 180°C	60 ~ 120 sec.
2	Reflow	T_L 230°C	30 sec. Max
3	Peak heat	T_p 260°C	10 sec. MAX

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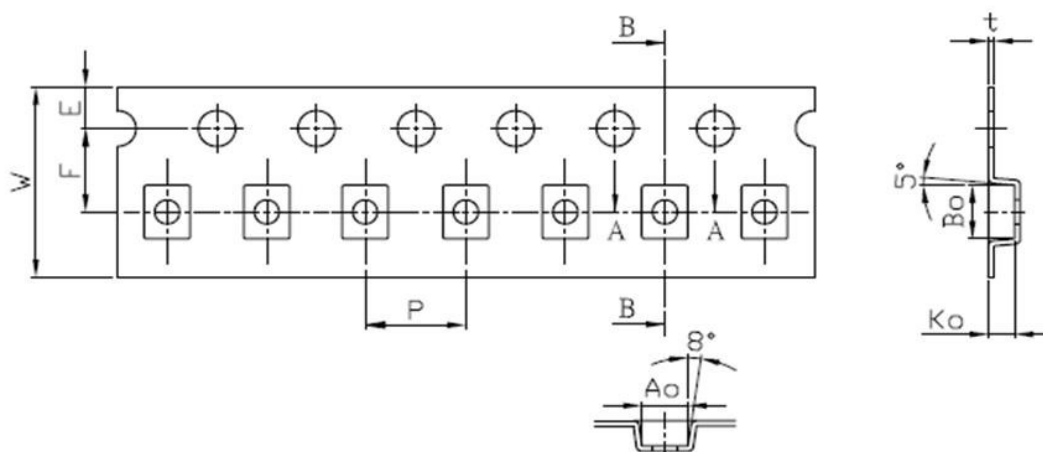
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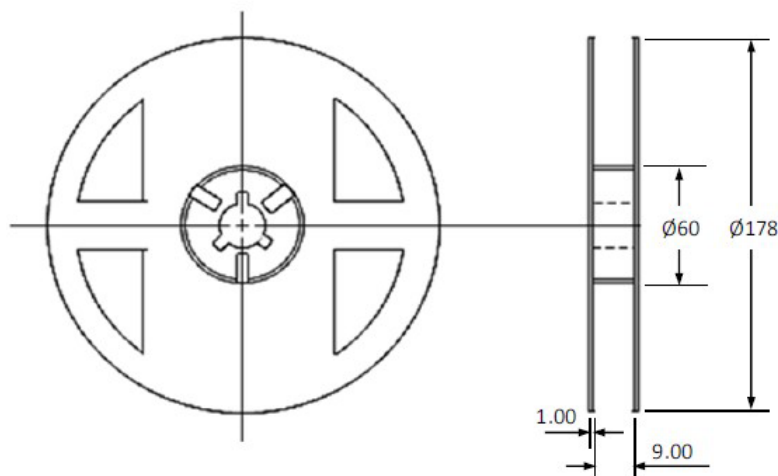
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Packaging

Tape & Reel: 3000 pcs/reel



Ao	Bo	Ko	P	W	t	E	F
1.85	2.25	1.05	4.00	8.00	0.22	1.75	3.50



Dimensions: mm

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