

# Molded SMD Power Inductor (AEC-Q200 Grade 0)

**ASPIAIG-F6060**

Request Samples



Check Inventory



6.6 x 6.4 x 5.8 mm  
**RoHS/RoHS II Compliant**  
MSL Level = 1

## Features

- PPAP ready and supported
- TS16949 certified production lines
- AEC-Q200 qualified (-55°C ~ +155°C)
- Shielded construction
- Soft saturation
- Low DCR, High Efficiency

## Applications

- Body electronics and comfort system
- Infotainment and entertainment
- Electric vehicles
- Lighting
- Solar inverters and power
- Industrial and robotics
- Medium and high-power switch mode power supplies.

## Electrical Specifications

Part Number	Inductance	Tolerance	DC Resistance		Saturation Current	Temperature Rise Current
	0.1MHz/1.0V		Max	Typ.	Max	Typ.
Units	μH	%	mΩ		A	A
Symbol	L	M	DCR		Isat	Irms
ASPIAIG-F6060-4R7M-T	4.70	20	14.4	13.10	9.5	11.0
ASPIAIG-F6060-5R6M-T	5.60	20	15.8	14.30	9.0	10.0
ASPIAIG-F6060-6R8M-T	6.80	20	20.8	18.90	8.7	9.0
ASPIAIG-F6060-8R2M-T	8.20	20	24.8	22.50	8.0	8.0
ASPIAIG-F6060-100M-T	10.0	20	29.3	26.60	6.8	7.0

## Test Conditions

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

**Irms:** DC current that causes the temperature rise ( $\Delta T$ , approximate 40 °C) from 25°C ambient.

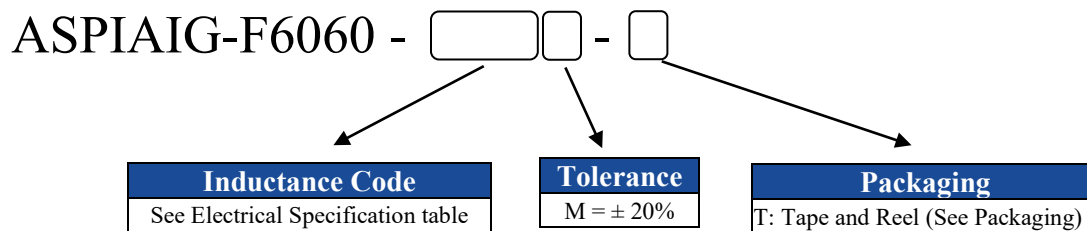
**Operating Temperature:** -55°C ~ +155°C (including self-temperature rise)

**Storage Condition:** -55°C ~ +155°C (on board), -10°C ~ +40°C (with packaging) and R.H. 60 max

**ASPIAIG-F6060 Series is RoHS Compliant and Pb free**

**ASPIAIG-F6060 is AEC-Q200 Grade 0 qualified (-55°C ~ +155°C)**

## Part Identification



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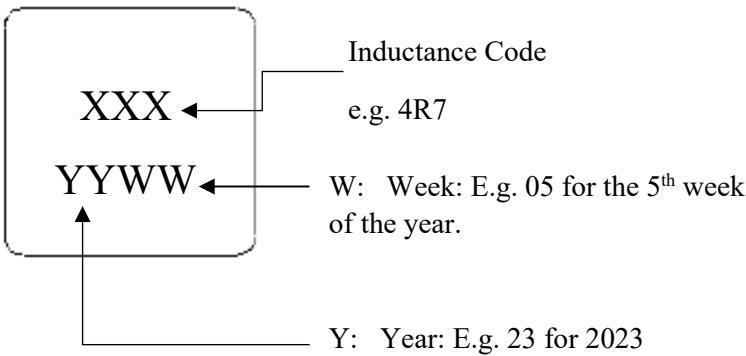


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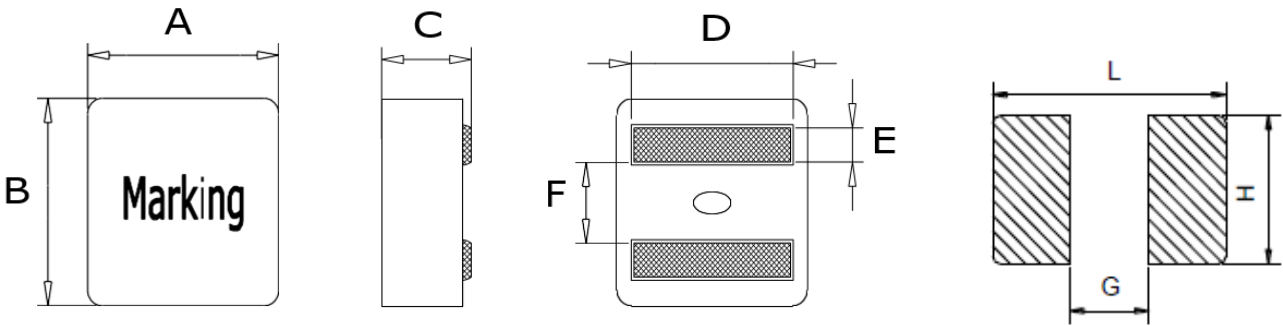
6.6 x 6.4 x 5.8 mm  
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## Marking



Marking Method = Ink Marking

## Mechanical Specifications



Series	A	B	C	D	E	F	L	G	H
ASPIAIG-F6060	6.6 ± 0.2	6.4 ± 0.2	5.8 ± 0.2	5.3 ± 0.3	1.40 ± 0.2	2.6 ± 0.25	5.6 Ref.	2.5 Ref.	5.6 Ref.

Dimensions: mm

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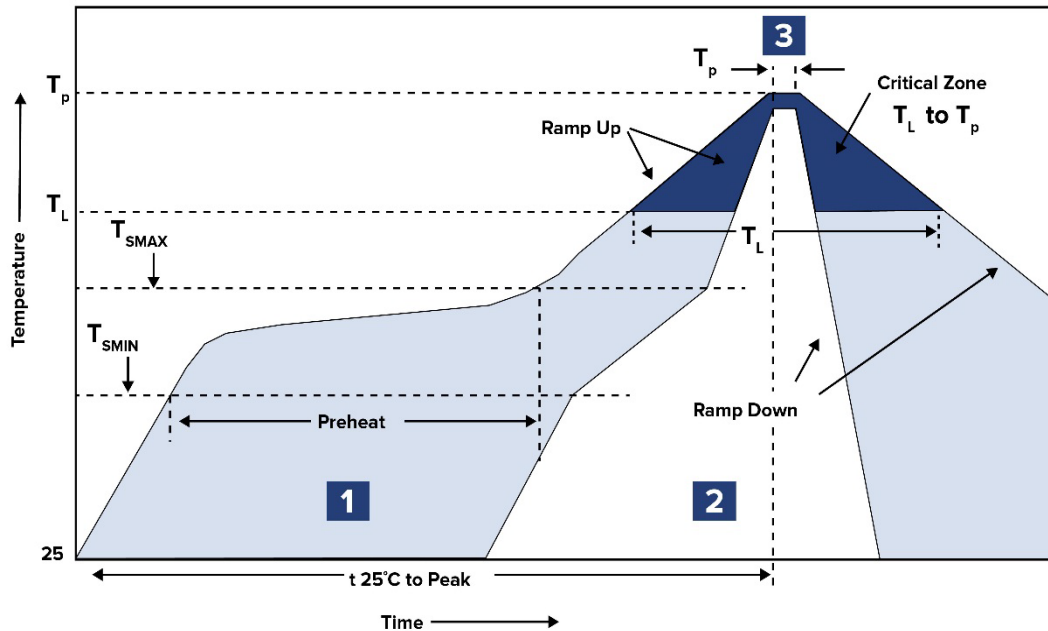


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## Reflow Profile



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ $150^\circ\text{C} \sim 200^\circ\text{C}$	60 ~ 180 sec.
2	Reflow	$T_L$ $217^\circ\text{C}$	60 ~ 150 sec.
3	Peak heat	$T_p$ $260^\circ\text{C}$	10 sec. MAX

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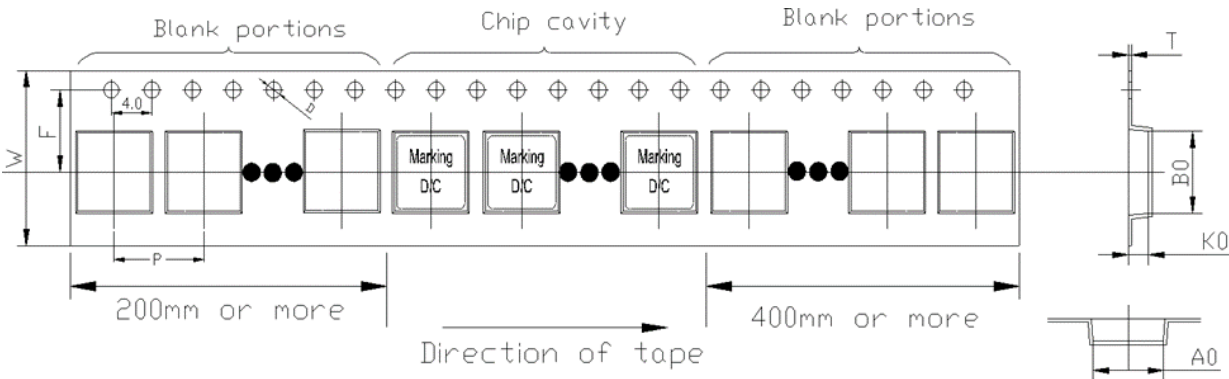
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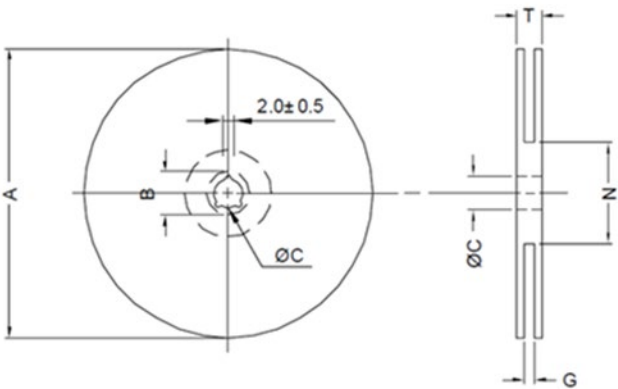
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## Packaging

Tape & Reel: 750 pcs/reel



A0	B0	K0	P	W	F	T	D
7.0±0.1	6.80±0.1	6.30±0.1	12.00±0.1	16.00±0.3	7.50±0.1	0.35±0.1	1.50±0.1



A	C	G	N
330.0 ± 2.0	13.0±0.5	16.4±1.0	100.0 ± 2.0

Dimensions: mm

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5101 Hidden Creek Ln Spicewood TX 78669  
Phone: 512-371-6159 | Fax: 512-351-8858  
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