Molded SMD Power Inductor

ASPI-5050LR

Request Samples 🕥

Check Inventory

6.0 x 5.7 x 4.8 mm RoHS/RoHS II Compliant MSL Level = 1

Features

- Shielded construction
- Soft saturation
- Low DCR, High Efficiency
- Designed for switching frequencies between 100KHz-2MHz

Applications

- DC/DC Switching converters
- Power supplies for Notebooks, workstations, and Servers
- Low Profile applications
- High current, transient load applications
- Applications requiring extended temperature.

Electrical Specifications

Part Number	Inductance 0.1MHz/0.1V	Tolerance	DC Resistance Typ/Max	Saturation Current Max	Temperature Rise Current Typ.
Units	μΗ	%	$m\Omega$	A	A A
Symbol	L	M	DCR	Isat	Irms
ASPI-5050LR-5R6	5.6	М	22.0 / 24.2	7.2	7.2
ASPI-5050LR-6R8	6.8	М	26.0 / 28.6	6.6	6.4
ASPI-5050LR-8R2	8.2	М	29.5 / 32.5	6.1	6.1
ASPI-5050LR-100	10	М	39.0 / 43.0	5.4	5.0
ASPI-5050LR-150	15	М	60.0 / 66.0	4.6	4.0
ASPI-5050LR-220	22	М	90.6 / 99.7	4.10	3.40

Test Conditions

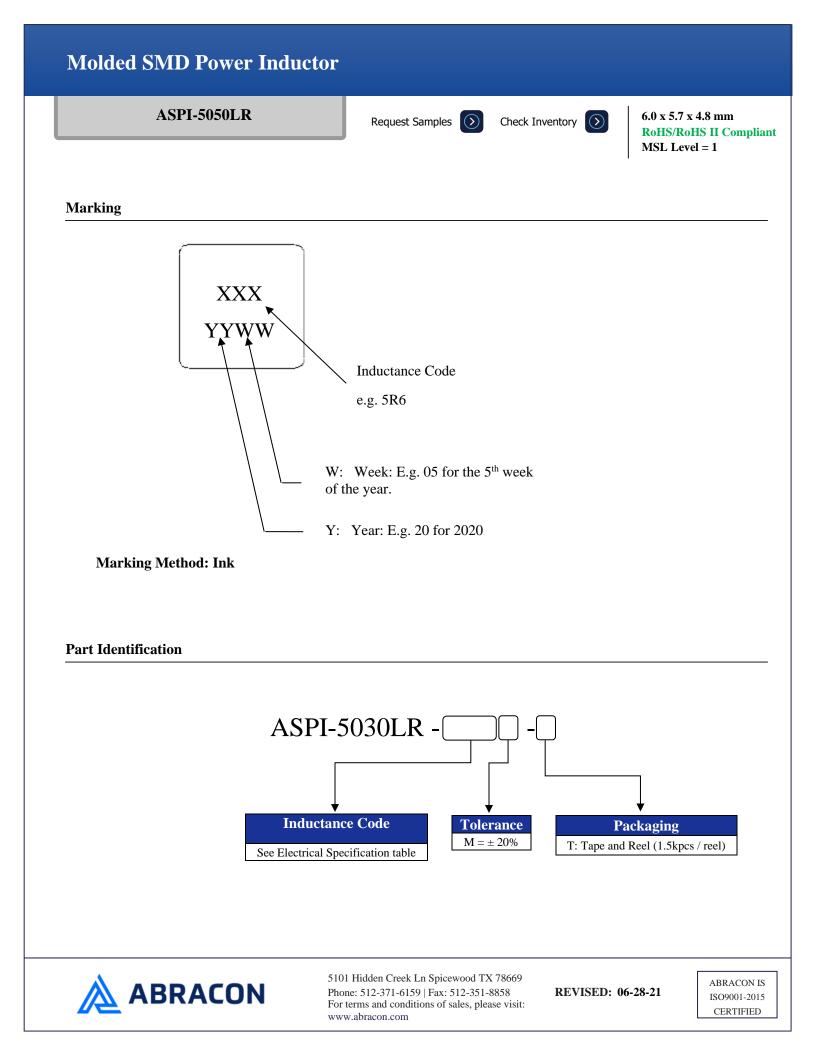
Isat: DC current at which the inductance drops 30% from its value. **Irms:** DC current that causes the temperature rise (Δ T, approximate 40 °C) from 20°C ambient

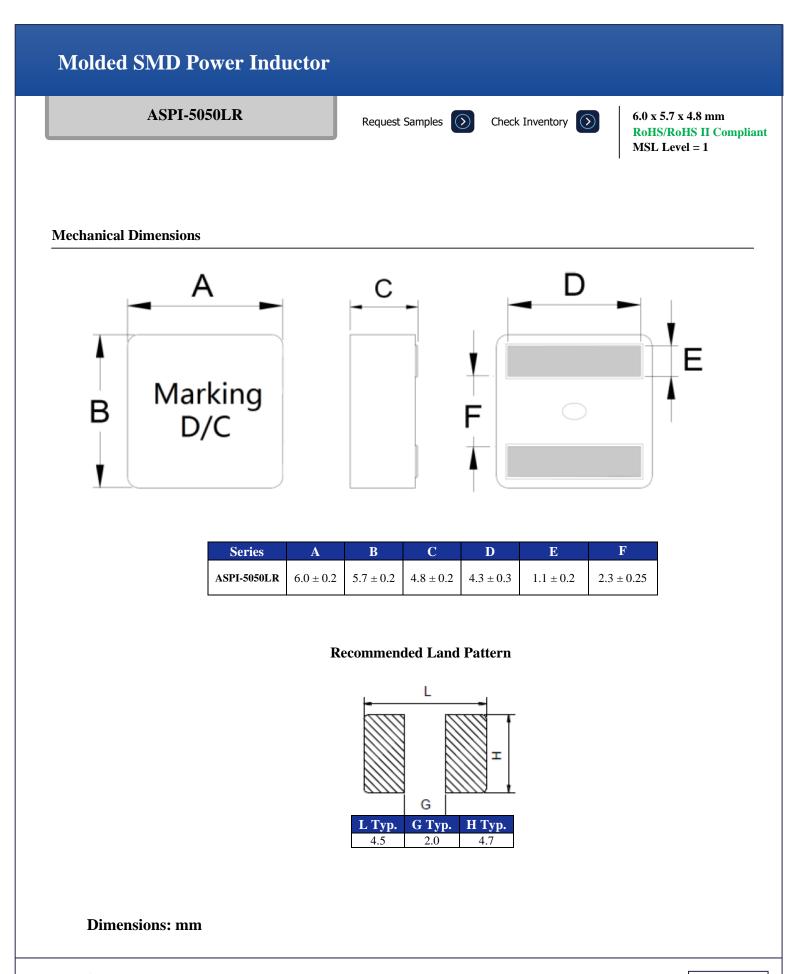
Operating Temperature: -40°C ~ +125°C (including self-temperature rise) **Storage Condition:** -40°C ~ +125°C and R.H. 60 max **Operating Voltage:** 15V (across inductor) **ASPI-5050LR Series is RoHS Compliant and Pb free MSL level:** 1



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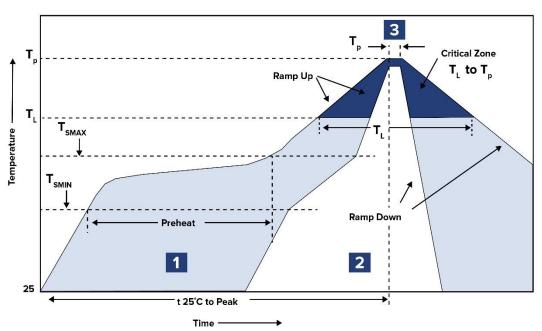




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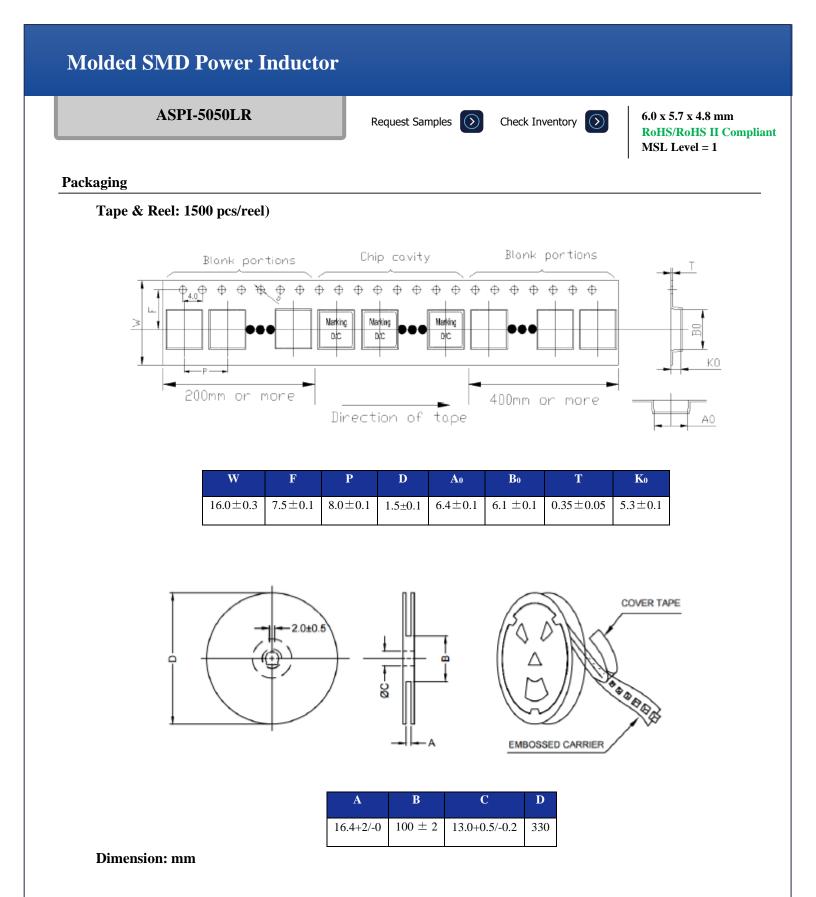


Zone	Description	Temperature	Times
1	Preheat	T _{SMIN} ~ T _{SMAX} 150°C ~ 200°C	60 ~ 180 sec.
2	Reflow	T _L 217°C	60 ~ 150 sec.
3	Peak heat	T_P 260°C±5°C	10 sec. MAX



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