

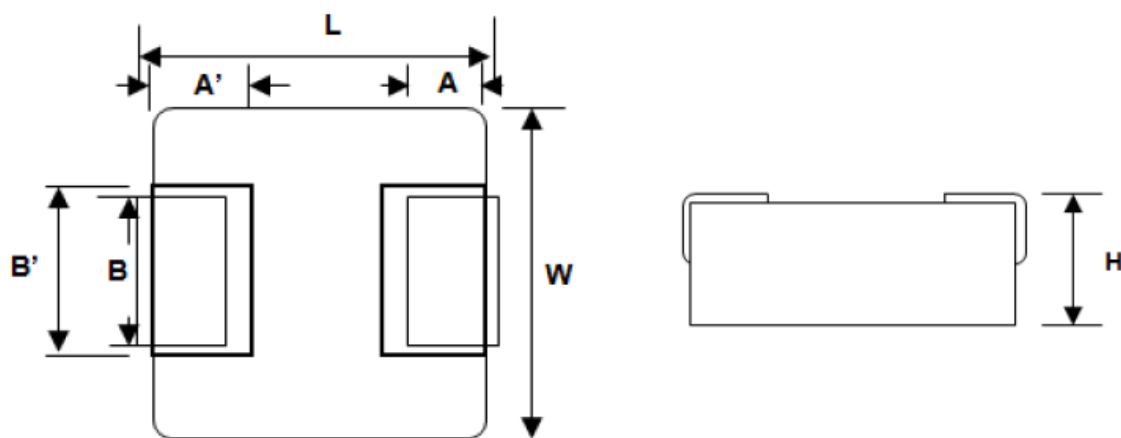
ECN/PCN No.: M1385

## For Manufacturer

<b>Product Description:</b>  <b>Molded Power Inductor</b>	<b>Abrakon Part Number / Part Series:</b>  <b>ASPI-0520LR Series</b>	<input type="checkbox"/> Documentation only <input checked="" type="checkbox"/> ECN <input type="checkbox"/> EOL	<input checked="" type="checkbox"/> Series <input type="checkbox"/> Part Number(s)
<b>Affected Revision:</b> A	<b>New Revision:</b> B	<b>Application:</b>	<input type="checkbox"/> Safety <input checked="" type="checkbox"/> Non-Safety

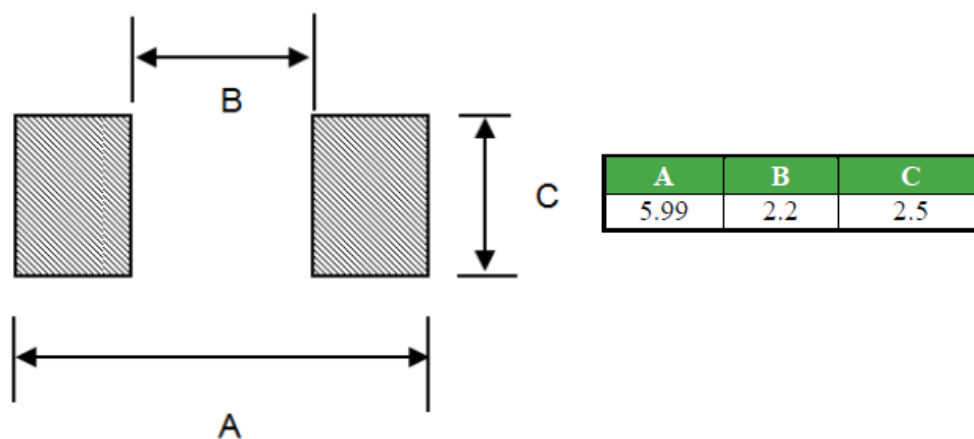
Prior to Change:

### 7.0 Mechanical Dimension




A	A'	B	B'	L	W	H
1.0 ±0.4	1.5 ±0.1	2.0 ±0.3	2.5 ±0.2	5.60 ±0.35	5.2 ±0.2	2.0 ±0.1

### 7.1 Recommended Land Pattern



Pad Analysis for the original recommended PCB pad layout and the inductors electrodes.

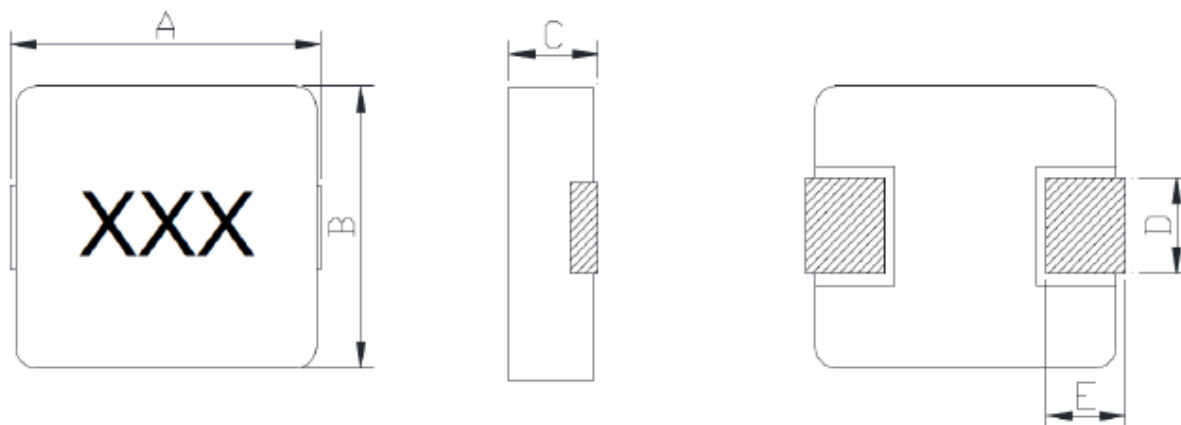
Inductor electrodes height:	2.0	PCB footprint pads height:	2.5
Inductor electrodes length:	5.6	PCB footprint pads length:	6
Inductor electrodes gap:	2.6	PCB footprint pads gap:	2.2
Enter a Scaling Value:	3	Dimensions [mm]	
<small>(Adjust value to zoom in or out, i.e 1.00, 0.5, 3.5, etc)</small>			

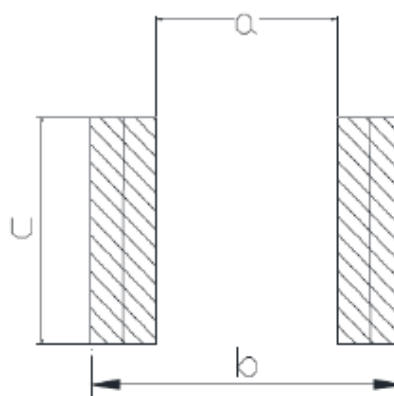
■ Original Recommended PCB pads  
 ■ Original Inductor electrodes

After Change:

## Mechanical Specifications



A	B	C	D	E
5.7 ±0.3	5.3 ±0.4	2.1 MAX	2.0 ±0.5	1.2 ±0.5



## Recommended Layout

a	b	c
3.0 TYP	7.0 TYP	2.5 TYP

Dimension: mm

Pad Analysis for the original recommended PCB pad layout and the inductors electrodes of the updated package.

<b>Inductor electrodes height:</b> <input style="width: 50px;" type="text" value="2.0"/> <b>Inductor electrodes length:</b> <input style="width: 50px;" type="text" value="5.7"/> <b>Inductor electrodes gap:</b> <input style="width: 50px;" type="text" value="3.3"/> <b>Enter a Scaling Value:</b> <input style="width: 50px;" type="text" value="3"/> <small>(Adjust value to zoom in or out, i.e 1.00, 0.5, 3.5, etc)</small>	<b>PCB footprint pads height:</b> <input style="width: 50px;" type="text" value="2.5"/> <b>PCB footprint pads length:</b> <input style="width: 50px;" type="text" value="6"/> <b>PCB footprint pads gap:</b> <input style="width: 50px;" type="text" value="2.2"/> <b>Dimensions [mm]</b>
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■ Original Recommended PCB pads
■ Changed Inductor electrodes

**Cause/Reason for Change:**

Changing production lines for capacity increase.

**Change Plan**

**Effective Date:**

8/1/2022

**Additional Remarks:**

**Change Declaration:**

The overall mechanical outline has changed slightly. More importantly, the recommended pad layout has changed. Design engineers must review and ensure new pad dimensions are permissible. Please review the included pad dimension analysis illustrations.

**Issued Date:**

8/1/2022

**Issued By:**

*Gerald Capwell*

**Issued Department:**

Engineering

**Approval:**

*Syed Raza*  
Engineering VP

**Approval:**

*Reuben Quintanilla*  
Quality Director

**Approval:**

*Ying Huang*  
Purchasing Director

**For Abracon EOL only**

**Last Time Buy (if applicable):**

**Alternate Part Number / Part Series:**

**Additional Approval:**

**Additional Approval:**

**Additional Approval:**

**Customer Approval (If Applicable)**

**Qualification Status:**

☐ Approved ☐ Not accepted

*Note: It is considered approved if there is no feedback from the customer 1 month after ECN/PCN is released.*

**Customer Part Number:**

**Customer Project:**

**Company Name:**

**Company Representative:**

**Representative Signature:**

**Customer Remarks:**