

**ECN/PCN No.: M1104**

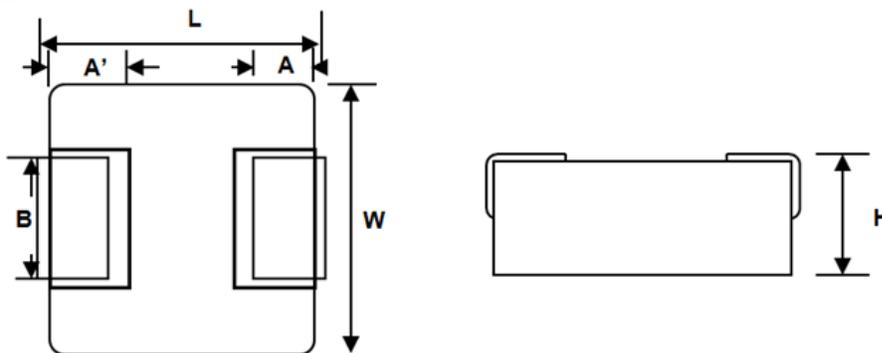
### For Manufacturer

<b>Product Description:</b> Molding Type Power Inductor		<b>Abracon Part Number / Part Series:</b> ASPI-1040HI	<input checked="" type="checkbox"/> Series
			<input type="checkbox"/> Part Number
<b>Affected Revision:</b> A	<b>New Revision:</b> B	<b>Application</b>	<input type="checkbox"/> Safety
			<input checked="" type="checkbox"/> Non-Safety

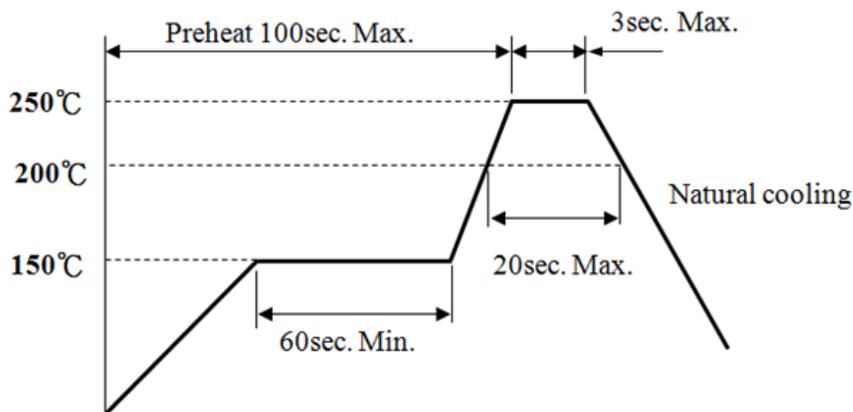
**Prior to Change:**

 1. Electrical Specifications

Part Number	Inductance	Tolerance	DCR Typ	DCR Max	Saturation Current	Temperature Rise Current
Units	μH	%	mΩ	mΩ	A	A
Symbol	L	M			Isat	Irms
ASPI-1040HI-R16	0.16	M	0.50	0.65	75.0	40.0
ASPI-1040HI-R22	0.22	M	0.88	0.96	68.0	35.0
ASPI-1040HI-R47	0.47	M	1.55	1.70	40.0	30.0
ASPI-1040HI-1R0	1.00	M	3.00	3.30	28.0	18.0
ASPI-1040HI-4R7	4.70	M	17.00	20.20	15.0	8.5
ASPI-1040HI-100	10.00	M	27.00	30.00	8.5	7.5

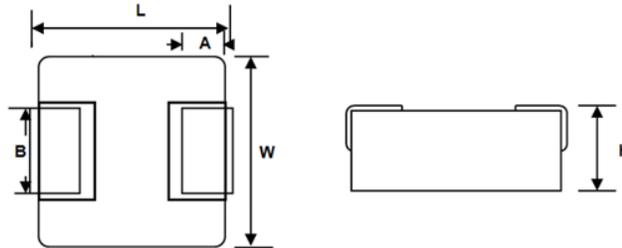
 2. Production Dimensions


A	A'	B	L	W	H
2.0 ±0.5	2.5 ±0.1	3.0 ±0.5	11.15 ±0.35	10 ±0.3	4 max (4.0 ±0.25 for R16)

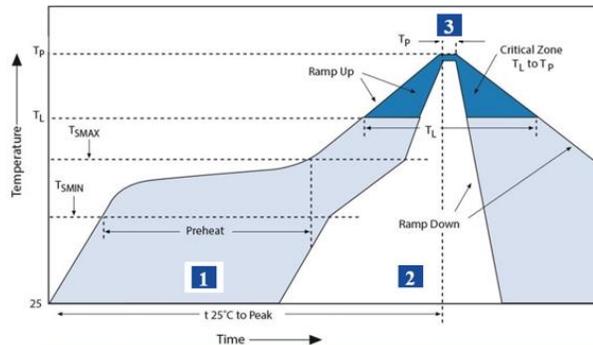
 3. Reflow profile


**After Change:**
**1. Electrical Specifications**

Part Number	Inductance	Tolerance	DCR Max	Saturation Current	Temperature Rise Current
Units	$\mu\text{H}$	%	$\text{m}\Omega$	A	A
Symbol	L	M		Isat	Irms
ASPI-1040HI-R22	0.22	M	1.0	60	35
ASPI-1040HI-R30	0.3	M	1.1	45	35
ASPI-1040HI-R36	0.36	M	1.2	45	30
ASPI-1040HI-R47	0.47	M	1.7	40	30
ASPI-1040HI-R56	0.56	M	1.8	33	25
ASPI-1040HI-R68	0.68	M	2.4	30	23
ASPI-1040HI-R80	0.8	M	2.7	29	23
ASPI-1040HI-1R0	1	M	3.3	28	19
ASPI-1040HI-1R5	1.5	M	4.2	24	16
ASPI-1040HI-2R2	2.2	M	7.0	16.5	12
ASPI-1040HI-3R3	3.3	M	11.8	16	11
ASPI-1040HI-4R7	4.7	M	20	13	9
ASPI-1040HI-6R8	6.8	M	25	12	8.5
ASPI-1040HI-8R2	8.2	M	27	9	8
ASPI-1040HI-100	10	M	30	8.5	7.8
ASPI-1040HI-150	15	M	45	7	6.5
ASPI-1040HI-220	22	M	66	5.5	5
ASPI-1040HI-330	33	M	92	5	4.4
ASPI-1040HI-470	47	M	145	3.5	3.3
ASPI-1040HI-680	68	M	195	3	2.5

**2. Production Dimensions**


A	B	L	W	H
2.0 ±0.5	3.0 ±0.5	11.5 max	10 ±0.3	4 max

**3. 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	40 sec.
3	Peak heat	$T_p$ 250°C ± 5°C	10 sec. MAX

<b>Cause/Reason for Change:</b> Standard review and upgrade of product series.		
<b>Change Plan</b>	<b>Effective Date:</b> 10/23/2019	<b>Additional Remarks:</b> Please note the discontinuation of part number ASPI-1040HI-R16N-T.
<b>Change Declaration:</b> The changes listed do not negatively impact electrical or mechanical performance of this series. The visual appearance may differ due to slight alteration of metal alloy powder.		
<b>Issued Date:</b> 10/23/2019	<b>Issued By:</b> Matthew Deleon	<b>Issued Department:</b> Engineering
<b>Approval:</b> Syed Raza Engineering VP	<b>Approval:</b> Reuben Quintanilla Quality Manager	<b>Approval:</b> Ying Huang Purchasing Director
<b>For Abracon EOL only</b>		
<b>Last Time Buy (if applicable):</b> N/A	<b>Alternate Part Number / Part Series:</b> N/A	
<b>Additional Approval:</b> N/A	<b>Additional Approval:</b> N/A	<b>Additional Approval:</b> N/A
<b>Customer Approval (If Applicable)</b>		
<b>Qualification Status:</b> <input type="checkbox"/> Approved <input type="checkbox"/> Not accepted Note: It is considered approved if there is no feedback from customer 1 month after ECN/PCN is released		
<b>Customer Part Number:</b>		<b>Customer Project:</b>
<b>Company Name:</b>	<b>Company Representative:</b>	<b>Representative Signature:</b>
<b>Customer Remarks:</b>		