Shielded Power Inductor

ASPI-4020HI





> FEATURES:

- High saturation current
- Low loss due to low DC resistance
- Low profile with max thickness 2.1mm
- •100% lead free and meeted RoHS standard
- Suitable for reflow soldering
- Highly reliable SMD package

> APPLICATIONS:

- DC/DC converters in LED driver, Notebook, Tablet, Desktop and Server
- Low profile, high current power supplies

STANDARD SPECIFICATIONS

Abracon P/N:	ASPI-4020HI Series	
Operating Temperature & Humidity:	-55°C to +125°C	
Storage Temperature & Humidity:	-10 to + 40 °C, 70% RH max (In tape and reel)	

Part Number ASPI-4020HI- Inductance Code	L(uH)	Tolerance	DCR (mΩ) max.	Isat (A) max.	Irms (A) max.
ASPI-4020HI-R47	0.47	M	14	9.5	7.5
ASPI-4020HI-1R0	1.0	M	27	7.0	6.0
ASPI-4020HI-1R5	1.5	M	46	6.0	5.0
ASPI-4020HI-2R2	2.2	M	58	5.0	4.5
ASPI-4020HI-3R3	3.3	M	87	4.0	3.3
ASPI-4020HI-4R7	4.7	M	105	3.0	2.8
ASPI-4020HI-6R8	6.8	M	175	2.5	2.4

Test Conditions

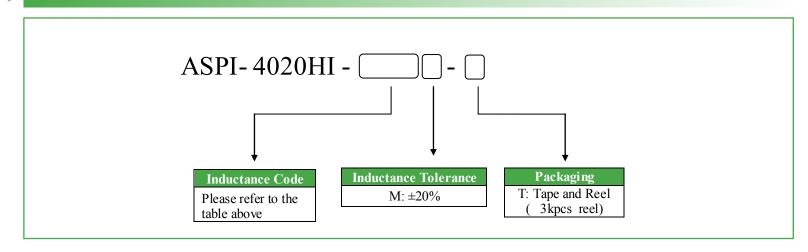
Inductance (L)

a. Test equipment: Agilent4284Ab. Test frequency: 100kHz, 0.25Vrms

 I_{sat} would cause inductance to drop by about 30%.

 I_{rms} would cause an Δ T of about 40°C.

PART NUMBER IDENTIFICATION





REVISED: 17/01/2017

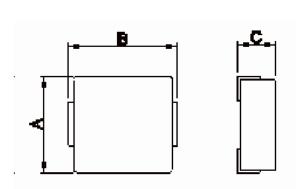
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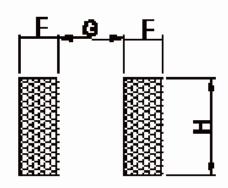


OUTLINE DRAWING:



A	В	C max.
4.2 ± 0.3	4.4 ± 0.35	2.0

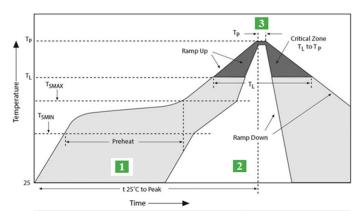
Recommended Land Pattern



F typ	G typ	H typ
1.5	2.2	2.5

Dimension: mm

REFLOW PROFILE



Zone	Description	Temperature	Times
1	Preheat	$T_{SMIN} \sim T_{SMAX}$ 150°C ~ 200°C	60 ~ 120 sec.
2	Reflow	T _L 217°C	60 ~ 90 sec.
3	Peak heat	Tp 255°C	10 sec. MAX



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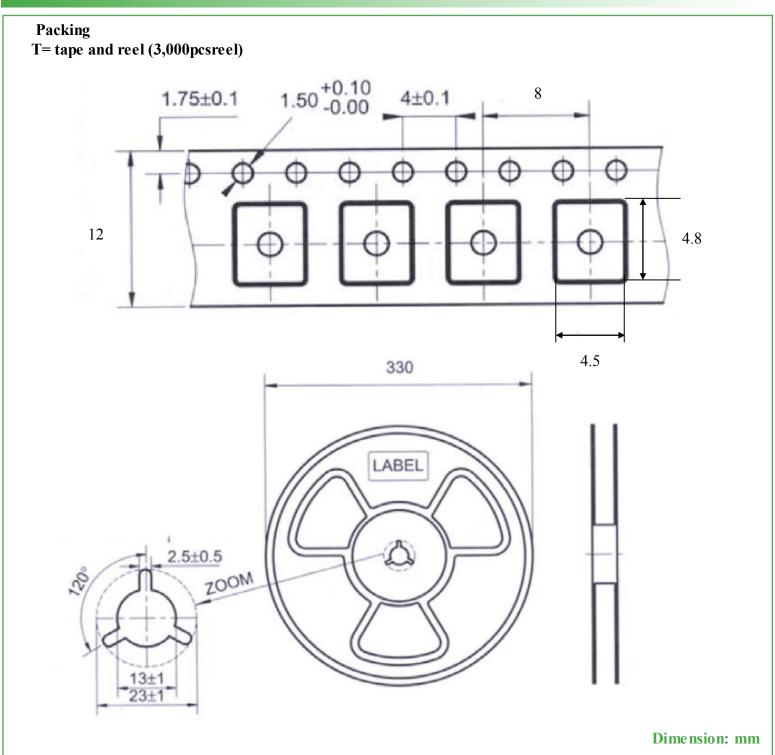
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TAPE & REEL



ATTENTION: ABRACON products are COTS – Commercial-Off-The-Shelf products; suitable for Commercial, Industrial and where designated, Automotive Applications.

ABRACON's products are not specifically designed for Military, Aviation, Aerospace, Life-dependent Medical applications or any application requiring high reliability where component failure could result in loss of life and/or property. For applications requiring high reliability and/or presenting an extreme operating environment, written consent and authorization from ABRACON is required. Please contact ABRACON for more information.



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