

# **ASPI-4020HI-1R5M-T Datasheet**

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DiGi Electronics Part Number	ASPI-4020HI-1R5M-T-DG
Manufacturer	Abracon LLC
Manufacturer Product Number	ASPI-4020HI-1R5M-T
Description	FIXED IND 1.5UH 4A 46 MOHM SMD
Detailed Description	1.5 μH Shielded Molded Inductor 4 A 46mOhm Max Nonstandard

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# Purchase and inquiry

Manufacturer Product Number:	Manufacturer:
ASPI-4020HI-1R5M-T	Abracon LLC
Series:	Product Status:
ASPI-4020HI	Active
Type:	Material - Core:
Molded	Iron Alloy
Inductance:	Tolerance:
1.5 µН	±20%
Current Rating (Amps):	Current - Saturation (Isat):
4 A	6A
Shielding:	DC Resistance (DCR):
Shielded	46mOhm Max
Q @ Freq:	Frequency - Self Resonant:
- 영영 이 전 이 이 가슴을 걸려 있다. (이 아이지)	
Ratings:	Operating Temperature:
-	-55°C ~ 155°C
Inductance Frequency - Test:	Mounting Type:
100 kHz	Surface Mount
Package / Case:	Supplier Device Package:
Nonstandard	4020
Size / Dimension:	Height - Seated (Max):
0.177" L x 0.161" W (4.50mm x 4.10mm)	0.083" (2.10mm)

# **Environmental & Export classification**

RoHS Status:	Moisture Sensitivity Level (MSL):
ROHS3 Compliant	1 (Unlimited)
REACH Status:	ECCN:
REACH Unaffected	EAR99
HTSUS:	
8504.50.4000	

# 4.4 x 4.2 x 2.0mm

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

## **STANDARD SPECIFICATIONS**

Pb	<b>RoHS/RoHS II Compliant</b>
$\overline{}$	MSL = 1

#### > APPLICATIONS:

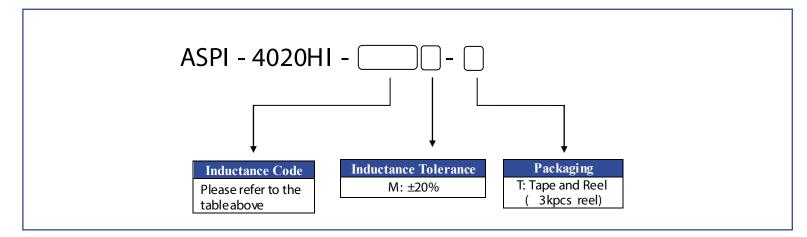
- DC/DC converters in LED driver, Notebook, Tablet, Desktop and Server
- Low profile, high current power supplies

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

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

 $I_{sat}$  would cause inductance to drop by about 30%.  $I_{rms}$  would cause an  $\Delta T$  of about 40°C.

## > PART NUMBER IDENTIFICATION





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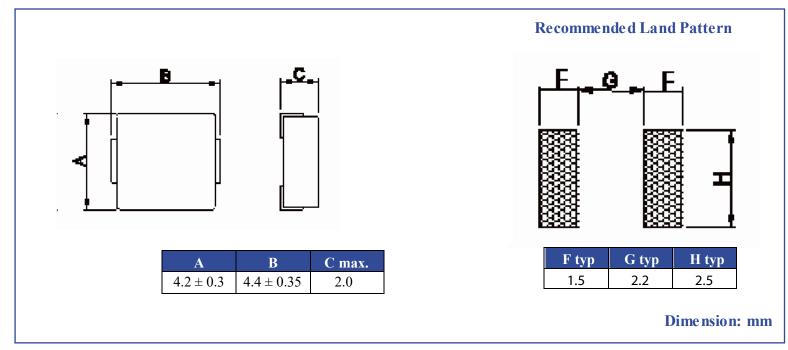




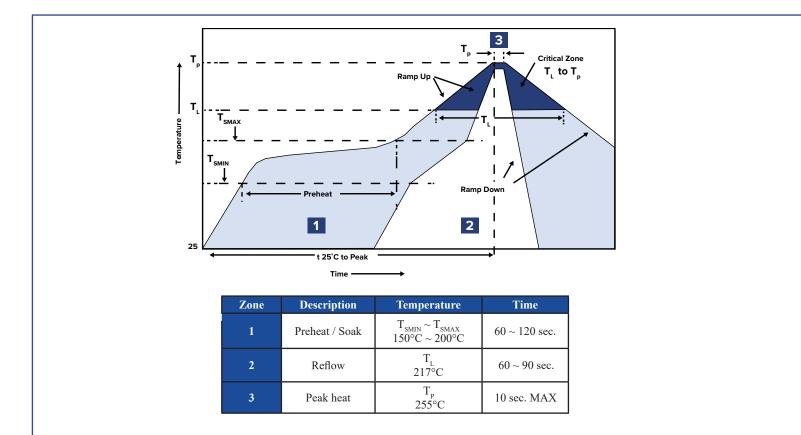
# ASPI-4020HI

RoHS/RoHS II Compliant MSL = 1

## **OUTLINE DRAWING:**



#### > **REFLOW PROFILE**





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# Shielded Power Inductor

MSL = 1

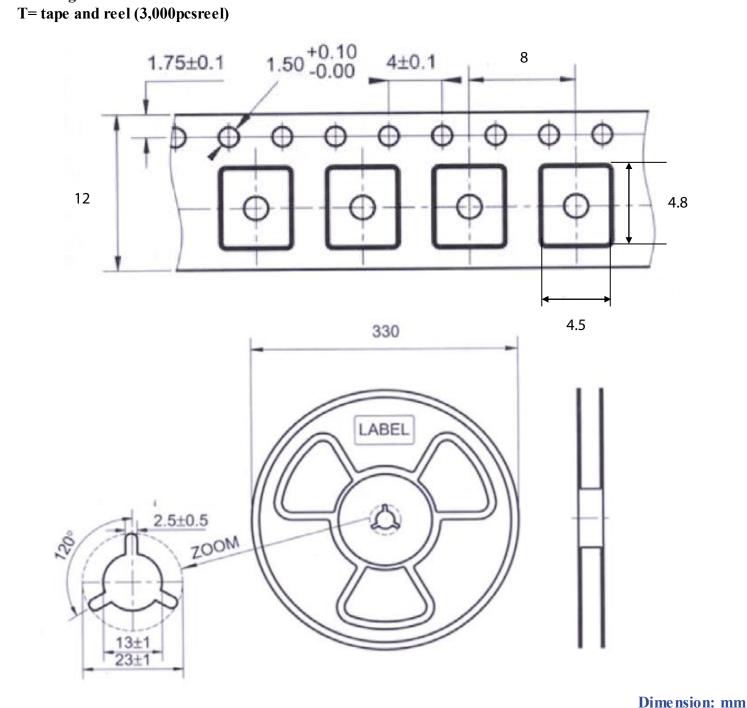
(Pb) RoHS/RoHS II Compliant



ASPI-4020HI

#### **TAPE & REEL** >

#### Packing



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