

Low Profile Shielded SMD Chip Power Inductor

ASPI-5040S

5.0 x 5.0 x 4.0mm

ASPI-5040S



RoHS
Compliant

FEATURES:

- Magnetically shielded for low radiation
- Large Terminal surface for good PCB mounting
- Low DCR and high rated current
- Suitable for DC-DC converter applications

APPLICATIONS:

- Portable communication equipment
- OA equipment
- LCD, DVD, modem, set-top box
- DC/DC converters

ELECTRICAL SPECIFICATIONS:

Part Number	Inductance	Tolerance	DCR Max	DCR Typ	Current Max	Temperature Rise Current Max
Units	μ H	%	$m\Omega$	$m\Omega$	A	A
Symbol	L	$M = \pm 20\%$, $N = \pm 30\%$	DCR	DCR	Isat	Irms
ASPI-5040S-1R5	1.5	N	24	20	6.00	3.60
ASPI-5040S-2R2	2.2	N	26	22	4.60	3.50
ASPI-5040S-3R3	3.3	N	32	27	3.80	3.30
ASPI-5040S-4R7	4.7	N	35	29	3.30	3.10
ASPI-5040S-6R8	6.8	M	59	49	2.60	2.30
ASPI-5040S-100	10	M	67	56	2.30	2.10
ASPI-5040S-150	15	M	96	80	2.00	1.80
ASPI-5040S-220	22	M	151	126	1.60	1.40
ASPI-5040S-330	33	M	216	180	1.30	1.20
ASPI-5040S-470	47	M	372	310	1.10	0.90

Test Criteria:

Inductance: 100kHz, 1V

Isat: Based on inductance change ($\Delta L/L_0 \leq -30\%$)

Irms: Based on temperature rise ($\Delta T: 40^\circ\text{C TYP.}$)

Storage Temperature	-40°C ~ 125°C (including self-generated heat)
Operating Temperature	-40°C ~ 125°C

OPTIONS AND PART IDENTIFICATION

ASPI-5040S -

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Inductance Code
Please refer to the table above

Tolerance
M: $\pm 20\%$
N: $\pm 30\%$

Packaging
T: Tape and Reel (1.5kpcs / reel)

M for 6.8 μ H~47 μ H
N for 1.5 μ H~4.7 μ H

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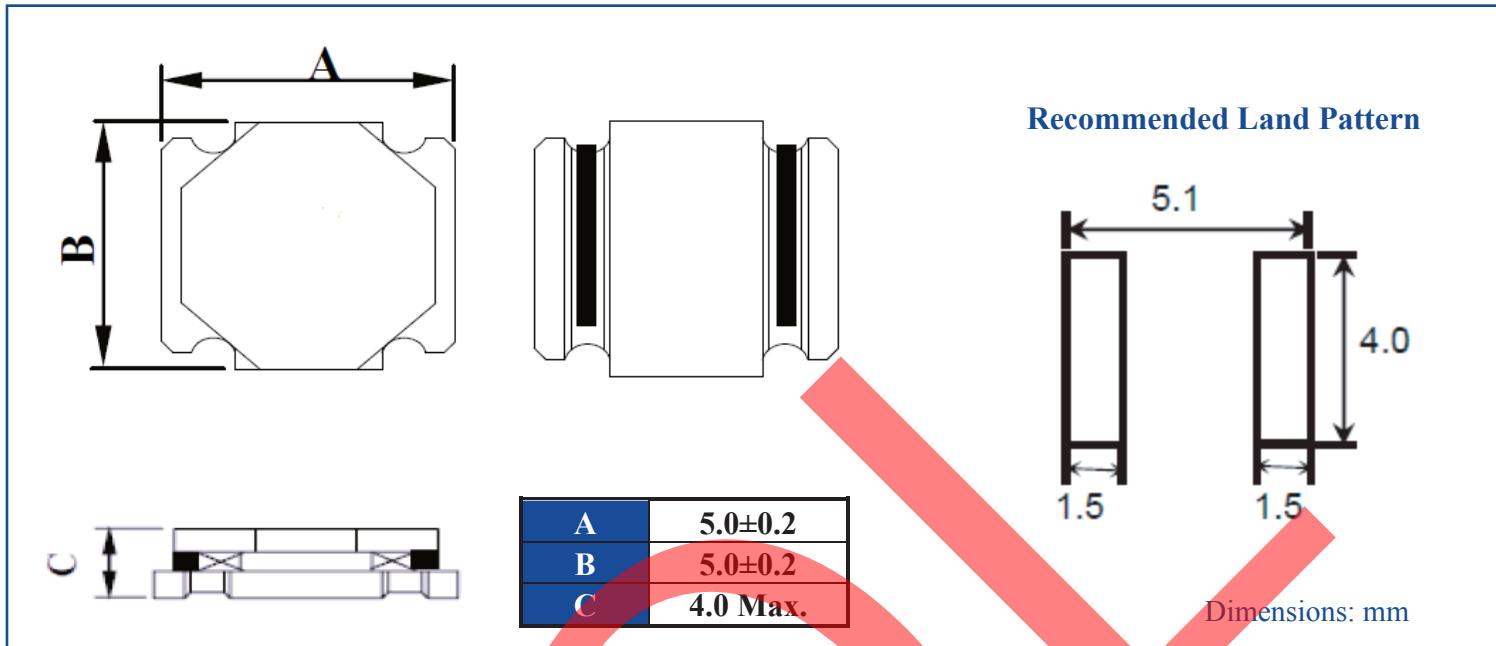


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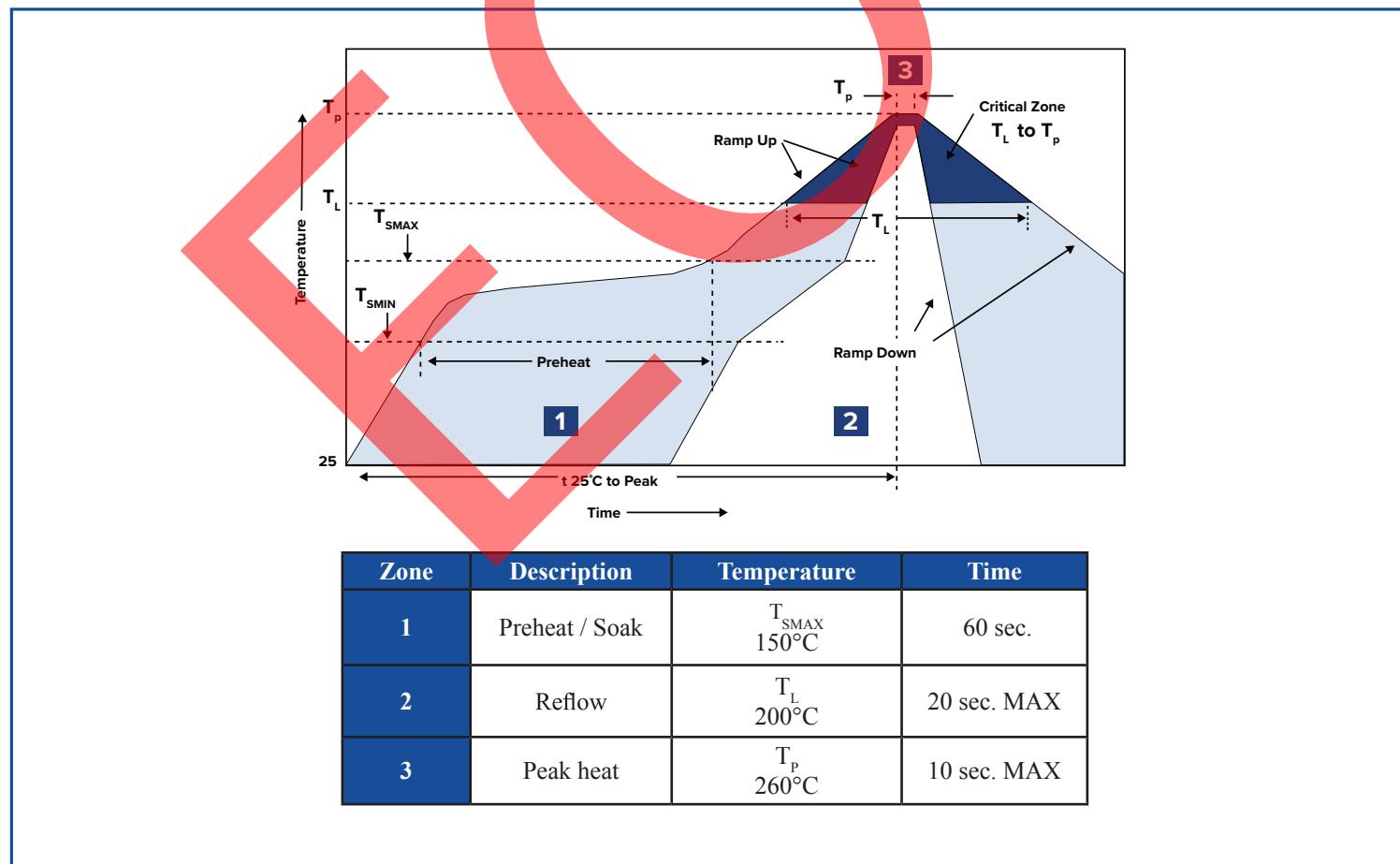


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OUTLINE DRAWING:



REFLOW PROFILE



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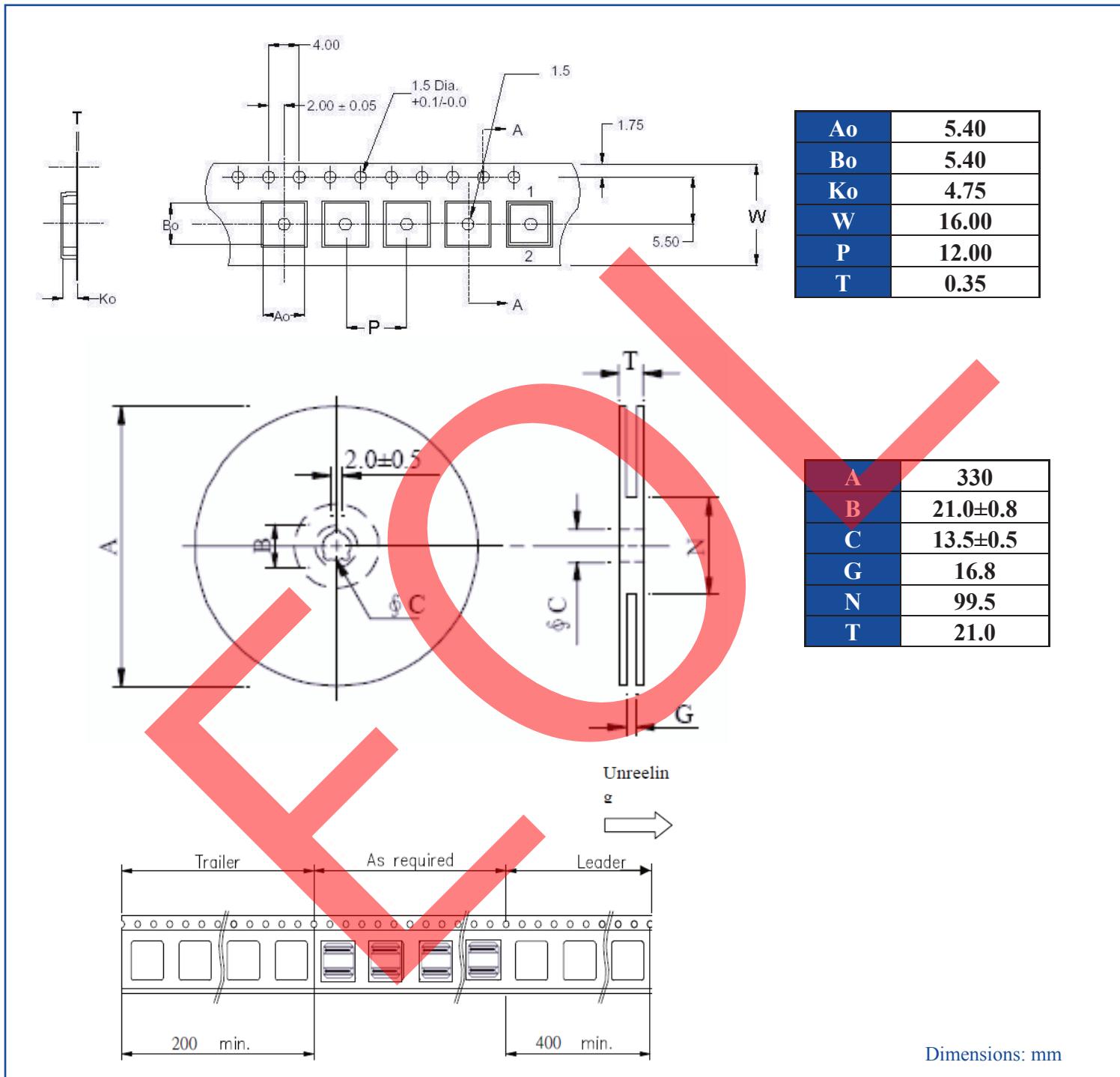
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➤ TAPE & REEL: T: 1500pcs/reel



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