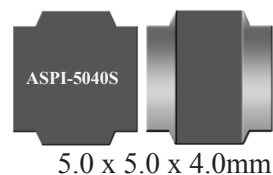


Low Profile Shielded SMD Chip Power Inductor



ASPI-5040S



RoHS
Compliant

5.0 x 5.0 x 4.0mm

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	μH	%	$\text{m}\Omega$	$\text{m}\Omega$	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:

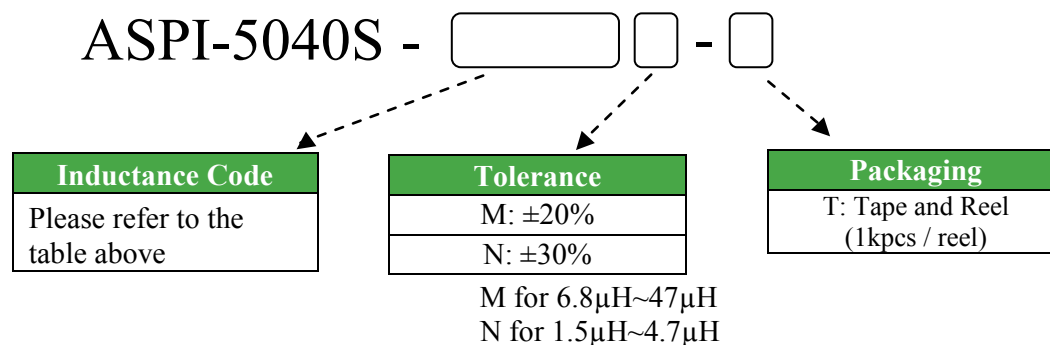
Inductance: 100kHz, 1V

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

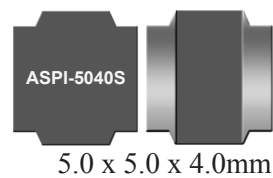
Irms: Based on temperature rise ($\Delta T : 40^\circ\text{C TYP.}$)

Storage Temperature	$-10^\circ\text{C} \sim 40^\circ\text{C}$.
Operating Temperature	$-25^\circ\text{C} \sim 120^\circ\text{C}$.

OPTIONS AND PART IDENTIFICATION



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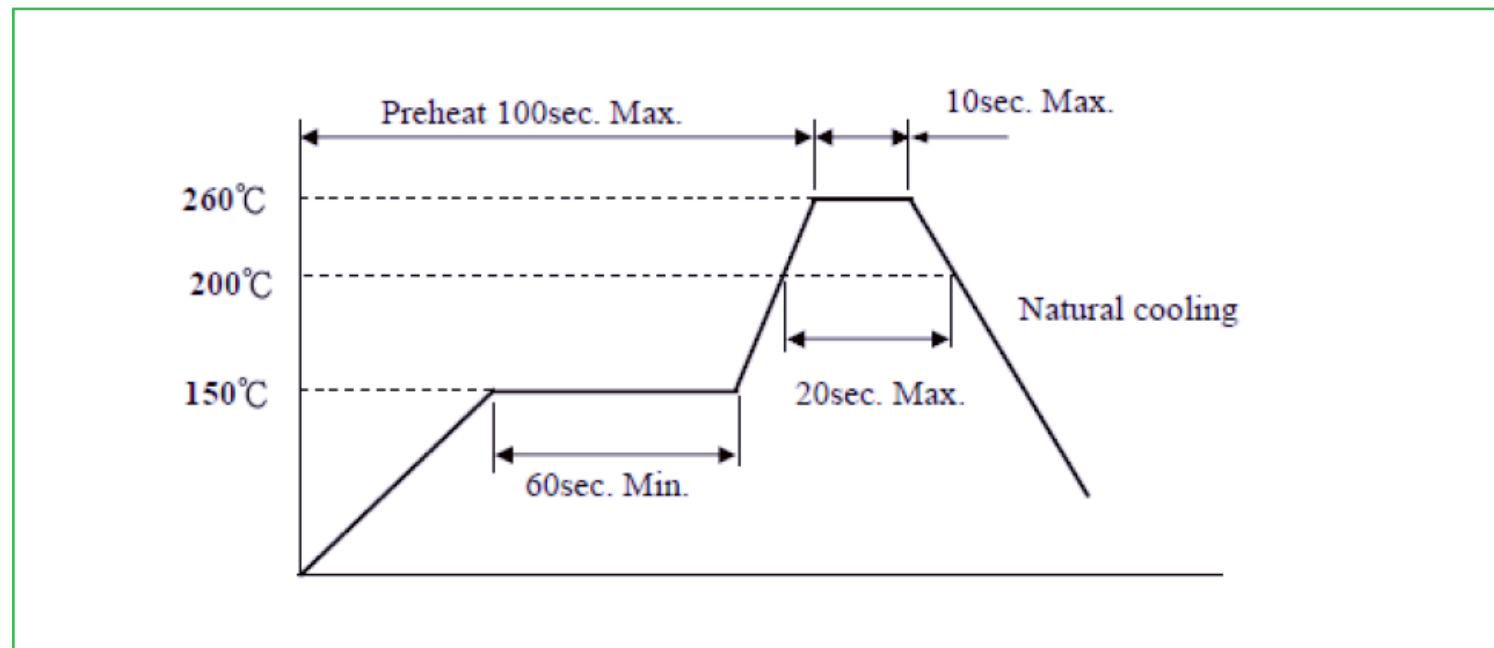
OUTLINE DRAWING:

Recommended Land Pattern

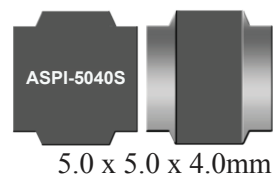
A	5.0±0.2
B	5.0±0.2
C	4.0 Max.

Dimensions: mm

REFLOW PROFILE



Low Profile Shielded SMD Chip Power Inductor

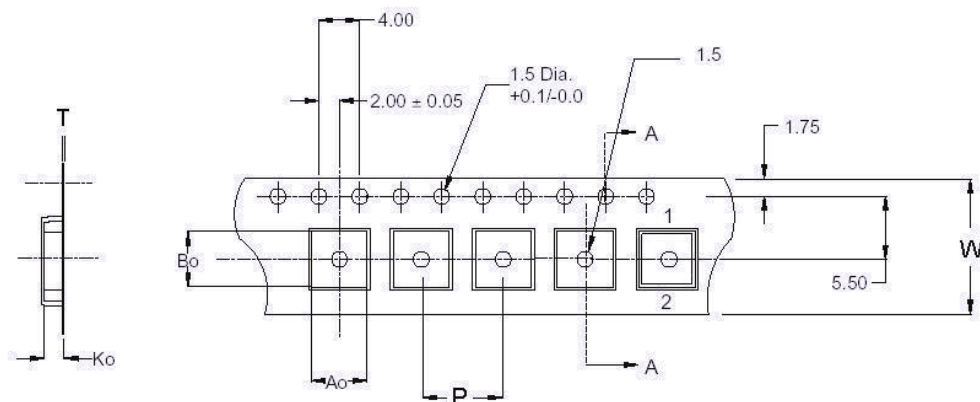


ASPI-5040S

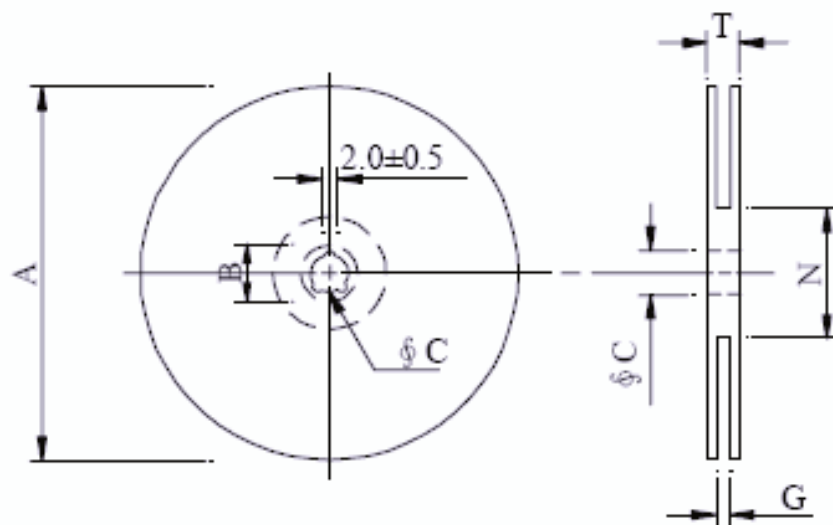


RoHS
Compliant

TAPE & REEL: T: 1000pcs/reel

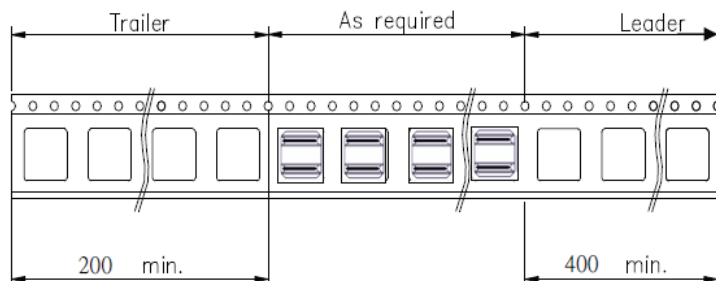


Ao	5.40
Bo	5.40
Ko	4.75
W	16.00
P	12.00
T	0.35



A	330
B	21.0±0.8
C	13.5±0.5
G	16.8
N	99.5
T	21.0

Unreeling
→



Dimensions: mm

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