

SHIELDED POWER INDUCTOR

ASPI-0703S



RoHS
Compliant



7.3 x 7.3 x 3.2mm

FEATURES:

- High saturation
- Magnetic shielding
- Very small footprint
- Flat-top for pick and place
- Low resistance to keep power loss minimum

APPLICATIONS:

- Palm-top and laptop
- LCD TV
- Power line DC to DC converters used in hard drive, notebook computer

STANDARD SPECIFICATIONS:

PARAMETERS

ABRACON P/N:	ASPI-0703S-xxx Series
Operating temperature :	-40°C to +125°C (including self-generated heat)
Storage temperature :	-40°C to +125°C

Test Conditions

Inductance: 1kHz

Isat: $\Delta L/L$ (initial) $\geq -20\%$

Irms: $\Delta T \leq 40^\circ\text{C}$

PART NUMBER	INDUCTANCE (uH)	Tolerance	DCR(Ω) max	Isat (A) max	Irms (A) max
ASPI-0703S-2R2	2.2	M	0.032	5.00	3.20
ASPI-0703S-100	10	M	0.072	1.68	1.72
ASPI-0703S-120	12	M	0.098	1.52	1.56
ASPI-0703S-150	15	M	0.130	1.33	1.36
ASPI-0703S-180	18	M	0.140	1.20	1.23
ASPI-0703S-220	22	M	0.190	1.07	1.15
ASPI-0703S-270	27	M	0.210	0.96	1.03
ASPI-0703S-330	33	M	0.240	0.91	0.98
ASPI-0703S-390	39	M	0.320	0.77	0.83
ASPI-0703S-470	47	M	0.360	0.76	0.79
ASPI-0703S-560	56	M	0.470	0.68	0.71
ASPI-0703S-680	68	M	0.520	0.61	0.65
ASPI-0703S-820	82	M	0.690	0.57	0.61
ASPI-0703S-101	100	M	0.790	0.50	0.58
ASPI-0703S-121	120	M	0.890	0.49	0.57
ASPI-0703S-151	150	M	1.270	0.43	0.50
ASPI-0703S-181	180	M	1.450	0.39	0.45
ASPI-0703S-221	220	M	1.650	0.35	0.41
ASPI-0703S-271	270	M	2.310	0.32	0.37
ASPI-0703S-331	330	M	2.620	0.28	0.32
ASPI-0703S-391	390	M	2.940	0.26	0.30
ASPI-0703S-471	470	M	4.180	0.24	0.28
ASPI-0703S-561	560	M	4.670	0.22	0.26
ASPI-0703S-681	680	M	5.730	0.19	0.22
ASPI-0703S-821	820	M	6.540	0.18	0.18
ASPI-0703S-102	1000	M	9.440	0.16	0.16

OPTIONS AND PART IDENTIFICATION:

(Left blank if standard)

ASPI-0703S - -

Inductance Code

Please refer to the table above

Tolerance %

M: $\pm 20\%$

Packaging

T: Tape and Reel (1,000pcs / reel)



5101 Hidden Creek Ln Spicewood TX 78669

Phone: 512-371-6159 | Fax: 512-351-8858

For terms and conditions of sales, please visit:

www.abracon.com

REVISED: 11-26-19

ABRACON IS
ISO9001-2015
CERTIFIED

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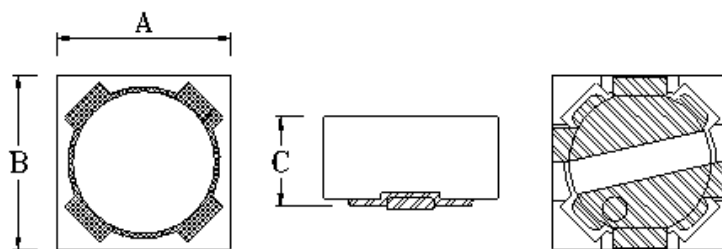


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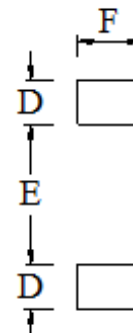


7.3 x 7.3 x 3.2mm

OUTLINE DRAWING:



Recommended Land Pattern

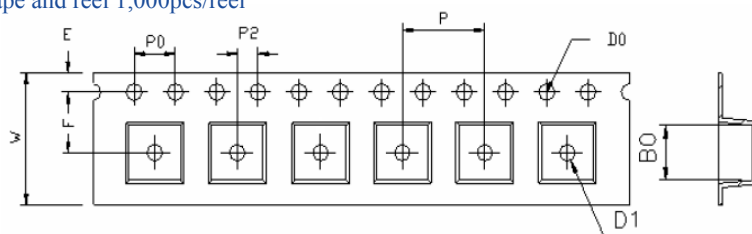


A	B	C	D	E	F
7.3 ± 0.2	7.3 ± 0.2	3.2 ± 0.2	1.50	4.80	2.20

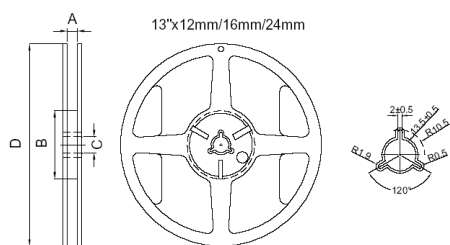
Dimension: mm

TAPE & REEL:

Tape and reel 1,000pcs/reel



A0	B0	K0	P	P0	P2	W	F	E	D0	D1
7.6±0.1	7.6±0.1	3.8±0.1	12.0±0.1	4.0±0.1	2.0±0.1	16±0.3	7.5±0.1	1.75±0.1	1.5 min.	1.5 min.



A	B	C	D
16.5±0.2	100±0.05	13.2±0.3	330±1.0

Dimension: mm

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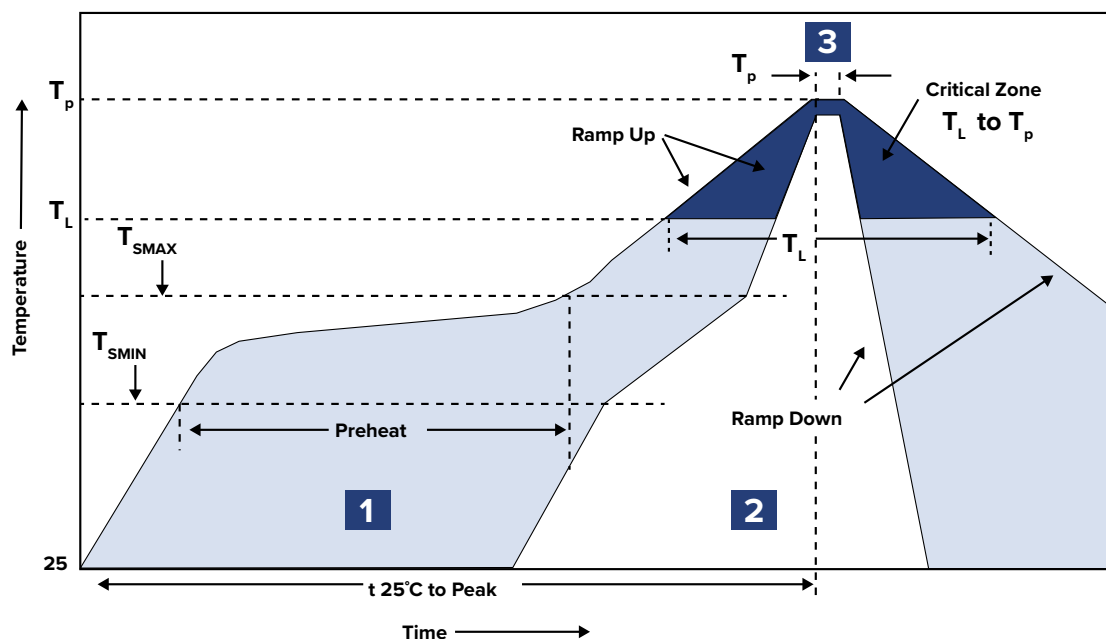


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REFLOW PROFILE:



Zone	Description	Temperature	Time
1	Preheat / Soak	T_{SMAX} 120°C ~ 180°C	50 ~ 150 sec.
2	Reflow	T_L 217°C	90 sec.
3	Peak heat	T_P 255°C ~ 260°C	10 - 30 sec. MAX

Dimension: mm

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