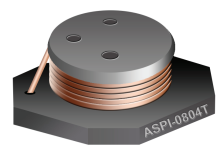


SMD Power Inductor

ASPI-0804T

RoHS
Compliant



12.95 x 9.40 x 5.21 mm

FEATURES:

- Compact size 12.95 x 9.4 x 5.21mm
- High energy storage and very low DCR
- Suitable for RoHS compliant reflow
- Special design lead wire for high isolation

APPLICATIONS:

- Step-up and step-down converters
- Telecommunications
- DC-DC converter used in PDA, notebook computers and mobile phones

ELECTRICAL SPECIFICATIONS:

Abracon P/N:	ASPI-0804T Series
Operating Temperature & Humidity :	-40°C to +85°C
Storage Temperature & Humidity:	-40°C to +85°C

PART NUMBER	INDUCTANCE (uH) ±20%	DCR (Ω) max	Isat (A)	Irms (A)
ASPI-0804T-1R0	1.0	0.009	9.00	6.80
ASPI-0804T-1R5	1.5	0.010	8.00	6.40
ASPI-0804T-2R2	2.2	0.012	7.00	6.10
ASPI-0804T-3R3	3.3	0.015	6.40	5.40
ASPI-0804T-4R7	4.7	0.018	5.40	4.80
ASPI-0804T-6R8	6.8	0.027	4.60	4.40
ASPI-0804T-100	10	0.038	3.80	3.90
ASPI-0804T-150	15	0.046	3.00	3.60
ASPI-0804T-220	22	0.085	2.60	3.10
ASPI-0804T-330	33	0.100	2.00	2.70
ASPI-0804T-470	47	0.140	1.60	2.10
ASPI-0804T-680	68	0.200	1.40	1.80
ASPI-0804T-101	100	0.280	1.20	1.50
ASPI-0804T-151	150	0.400	1.00	1.30
ASPI-0804T-181	180	0.520	0.90	1.00
ASPI-0804T-221	220	0.610	0.80	0.80
ASPI-0804T-331	330	1.020	0.60	0.60
ASPI-0804T-471	470	1.270	0.50	0.50
ASPI-0804T-681	680	2.020	0.40	0.40
ASPI-0804T-102	1000	3.000	0.30	0.30

Test Conditions

Inductance: 100kHz, 0.1V

Isat: ΔL/L (initial) ≥ -10%

Irms: ΔT ≤ 40°C at 25°C ambient.

OPTIONS AND PART IDENTIFICATION:

ASPI-0804T - [] [] - []

Inductance Code

Please refer to the table above

Tolerance %

M: ± 20%

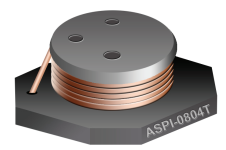
Packaging

T: Tape and Reel · (700pcs / reel)

SMD Power Inductor

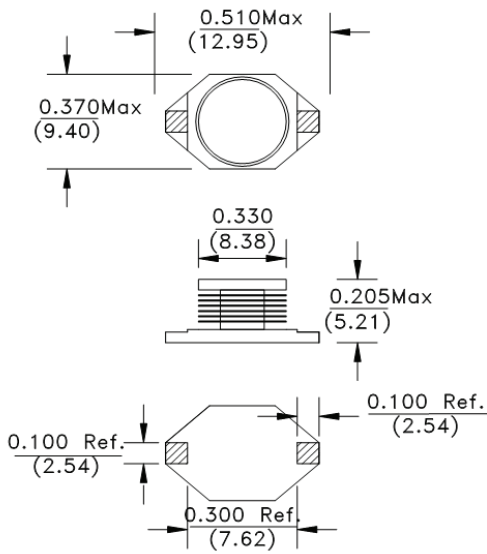
ASPI-0804T

RoHS
Compliant



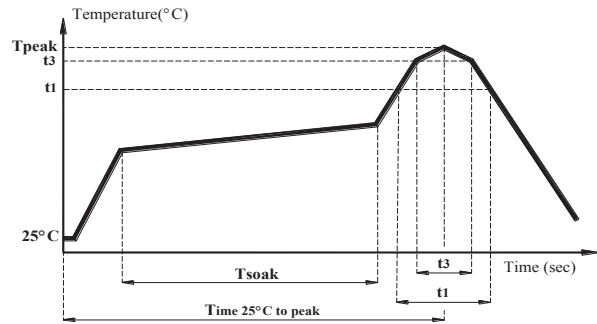
12.95 x 9.40 x 5.21 mm

OUTLINE DIMENSIONS:



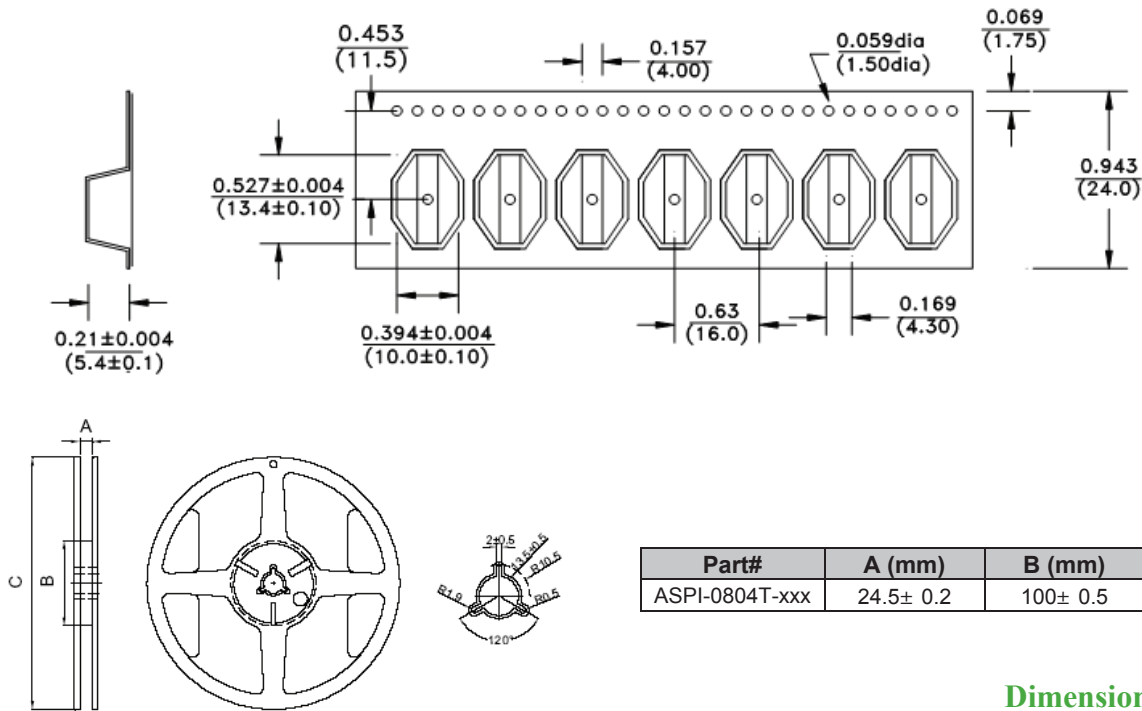
Dimension: inch (mm)

REFLOW PROFILE:



Item	mark	products thickness≥ 2.5mm
Temperature rise gradient		3°C/sec (max)
Heating time	Tsoak	50s ~ 150s
Heating temperature		120°C~180°C
Time over 217 °C	t1	70 sec
Time within 5°C of actual peak temperature	t3	10~30 sec
Peak temperature	Tpeak	250 (+0 / -5 °C)
Time 25°C to peak Temperature		6 minutes max.

TAPE & REEL: T: 700pcs / reel



Part#	A (mm)	B (mm)	C (mm)
ASPI-0804T-xxx	24.5± 0.2	100± 0.5	330± 1.0

Dimension: inch/(mm)

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