

SMD POWER INDUCTOR



6.6 x 4.45 x 2.92mm

ASPI - 0402T



RoHS
Compliant

FEATURES:

- Inductances are from 1uH to 1000uH
- Designed for compact size usage
- High energy storage and very low resistance
- High temperature deflection prevents damage from solder reflow

APPLICATIONS:

- VDSL & ADSL
- OA equipment
- PC cards
- DC to DC converter

ELECTRICAL SPECIFICATIONS:

ABRACON P/N:	ASPI-0402T-xxx
Operating Temperature:	-40°C to +85°C
Storage Temperature:	-40°C to +85°C

ABRACON P/N	IND. (μH)	DCR (Ω Max.)	I _{SAT} DC (A)	I _{RMS} (A)	SRF Typ (MHz)
ASPI-0402T-1R0M	1.0	0.050	2.90	2.90	80
ASPI-0402T-1R5M	1.5	0.050	2.60	2.80	60
ASPI-0402T-2R2M	2.2	0.070	2.30	2.40	54
ASPI-0402T-3R3M	3.3	0.080	2.00	2.00	44
ASPI-0402T-4R7M	4.7	0.09	1.50	1.50	27
ASPI-0402T-6R8M	6.8	0.13	1.20	1.40	23
ASPI-0402T-100M	10	0.16	1.10	1.10	24
ASPI-0402T-150M	15	0.23	0.90	1.20	13
ASPI-0402T-220M	22	0.37	0.70	0.80	11
ASPI-0402T-330M	33	0.51	0.58	0.60	10
ASPI-0402T-470M	47	0.64	0.50	0.35	8
ASPI-0402T-680M	68	0.86	0.40	0.40	6
ASPI-0402T-101M	100	1.27	0.31	0.30	3

Note:

Tolerance: M=±20%

Testing Conditions: 100KHz, 0.1V_{RMS}

Marking: XXX, i.e. 100=10μH

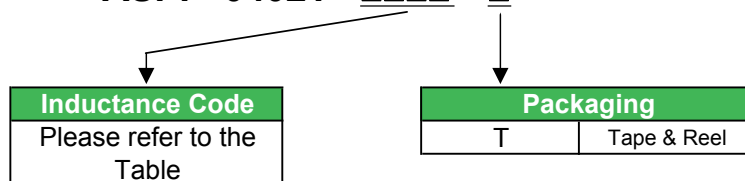
Ind. drop = 10% typ. at I_{SAT} DC

ΔT = 40°C temperature rise max at I_{RMS}

Please contact Abracon for the availability of other inductance values.

OPTIONS AND PART IDENTIFICATION

ASPI - 0402T - □□□□ - □



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OUTLINE DRAWING:

Part#	A	B	C	D
ASPI-0402T-xxx	0.157±0.008	0.115 max.	0.175 max.	0.040±0.002
	(4.0±0.2)	(2.92 max.)	(4.45 max.)	(1.02±0.05)

Part#	E	F	G
ASPI-0402T-xxx	0.26 max.	0.05±0.002	0.12±0.002
	(6.60 max.)	(1.27±0.05)	(3.05±0.05.)

Dimension : Inches (mm)

TAPE & REEL: T= tape and reel (2500 pcs/reel)

Part#	A0	B0	K0	P	P0	P2
ASPI-0402T-xxx	4.8±0.1	7.0±0.1	3.0±0.1	8.0±0.1	4.0±0.1	2.0±0.1

Part#	W	F	E	D0	D1
ASPI-0402T-xxx	16±0.3	7.5±0.1	1.75±0.1	1.5 min.	1.5 min.

Part#	A	B	C	D
ASPI-0402T-xxx	16.5±0.2	100±0.5	13.2±0.3	330±1.0

Dimension : mm

REFLOW PROFILE:

Reflow soldering temperature profile

Item	mark	products	
		size ≥ 350mm ³ or thickness ≥ 2.5mm	size < 350mm ³ or 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	90 sec
Time within 5°C of actual peak temperature	t3	10~30 sec	10~30 sec
Peak temperature	Tpeak	250 (+0/-5 °C)	260 (+0/-5 °C)
Time 25°C to peak Temperature		6 minutes max.	

*The determination, first primarily determines by the size, then determines the altitude.

NOTE: Abracon manufactured products are intended for general commercial and industrial use. For applications requiring high reliability and/or presenting extreme operating environment, written consent & authorization from Abracon is required.

ABRACON IS
ISO 9001 / QS 9000
CERTIFIED



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