

APT Series

Features

- Magnetic shielded surface mount inductor with high current rating.
- High inductance/High power inductor.

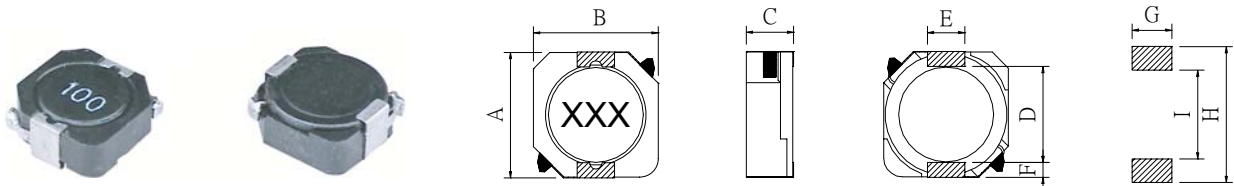
Applications

- Ideal use in variety of DC-DC converter inductor applications.

Test Equipment and Conditions

- Inductance is measured with HP-4284A LCR meter or equivalent.
- 1. Maximum allowable DC current is that which causes a 35% inductance reduction of the initial value, or coil temperature to rise by 30°C, whichever is smaller. (Reference ambient temperature 20°C)
- 2. Maximum allowable DC current is that which causes a 30% inductance reduction of the initial value, or coil temperature to rise by 40°C, whichever is smaller. (Reference ambient temperature 20°C)
- Operating temperature: -25°C ~ +85°C.

External Dimensions (Unit: mm)



Type	A	B	C	D	E	F	G	H	I
APT10A30	10.4Max	10.3Max	3.0Max	7.7	3.0	1.2	3.6	10.7	7.3
APT10A40	10.4Max	10.3Max	4.0Max	7.7	3.0	1.2	3.6	10.7	7.3
APT10A50	10.3Max	10.3Max	5.0Max	6.5	3.0	1.6	3.6	10.7	6.0

Part Number Code

APT 10 A 30 M 100
A B C D E F

A: Series Name SMD Power inductor
 B: Dimensions(mm) 10: 10.4x10.3
 C: Materials NO use
 D: Thickness(mm) 30: 3.0
 E: Tolerance M: ±20% N: ±30%
 F: Inductance 100=10uH

APT Series

Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max
APT10A30□-100	10	100	0.058	2.70
APT10A30□-120	12	100	0.072	2.25
APT10A30□-150	15	100	0.086	2.22
APT10A30□-180	18	100	0.116	1.90
APT10A30□-220	22	100	0.145	1.78
APT10A30□-270	27	100	0.175	1.5
APT10A30□-330	33	100	0.213	1.46
APT10A30□-390	39	100	0.269	1.32
APT10A30□-470	47	100	0.299	1.18
APT10A30□-560	56	100	0.336	1.10
APT10A30□-680	68	100	0.451	1.04
APT10A30□-820	82	100	0.534	0.94
APT10A30□-101	100	100	0.700	0.84
APT10A30□-121	120	100	0.765	0.76
APT10A30□-151	150	100	0.876	0.70
APT10A40□-1R5	1.5	100	0.012	7.00
APT10A40□-2R7	2.7	100	0.018	6.30
APT10A40□-4R4	4.4	100	0.025	5.70
APT10A40□-5R6	5.6	100	0.029	5.30
APT10A40□-6R8	6.8	100	0.032	5.00
APT10A40□-7R5	7.5	100	0.037	4.80
APT10A40□-120	12	100	0.050	4.20
APT10A40□-150	15	100	0.070	3.60
APT10A40□-220	22	100	0.100	2.90
APT10A40□-330	33	100	0.150	2.30
APT10A40□-470	47	100	0.185	2.10
APT10A40□-680	68	100	0.310	1.50
APT10A40□-101	100	100	0.410	1.35
APT10A40□-151	150	100	0.560	1.15
APT10A40□-221	220	100	0.870	0.92
APT10A40□-331	330	100	1.250	0.70
APT10A40□-471	470	100	1.650	0.50
APT10A40□-681	680	100	3.100	0.30
APT10A40□-102	1000	100	5.500	0.20
APT10A50□-100	10	100	0.026	3.45
APT10A50□-120	12	100	0.032	3.40
APT10A50□-150	15	100	0.040	2.83
APT10A50□-220	22	100	0.059	2.44
APT10A50□-330	33	100	0.081	1.88
APT10A50□-470	47	100	0.122	1.56
APT10A50□-560	56	100	0.145	1.39

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Part Number	Inductance (μH)	Test Frequency (KHz)	DC Resistance (Ω)Max.	Rated DC Current (A)Max
APT10A50□-680	68	100	0.193	1.36
APT10A50□-101	100	100	0.247	1.09
APT10A50□-151	150	100	0.355	0.91
APT10A50□-221	220	100	0.484	0.75
APT10A50□-331	330	100	0.780	0.60
APT10A50□-471	470	100	1.220	0.50
APT10A50□-681	680	100	1.519	0.43
APT10A50□-102	1000	100	1.964	0.35