MAGNETIC TECHNOLOGY WORLDWIDE SDN BHD

KEENTECH ELECTRONICS CO. LTD

SMD Power Inductors
MTOPC Series

Features

- Ultra low profile and small size SMD
- Use of high-performance ferrite for excellent. DC-Bias characteristics
- Ideal for varieties of DC/DC converter. Inductor applications in LCD panel
- Ideal for varieties of notebook computer PDAPC cards and mobile phones

Applications

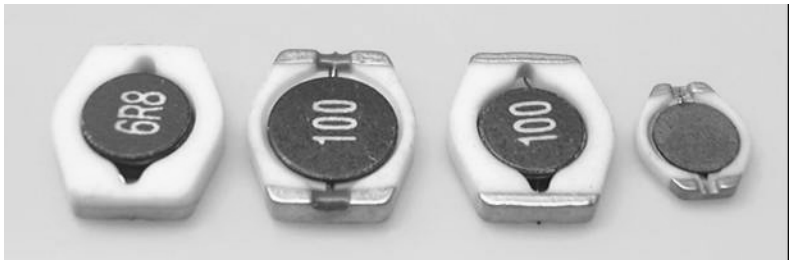
- Portable communication equipment
- Notebook PC, digital camera, LCD television set
- Power supply for VTR, OA equipment
- DC / DC converters

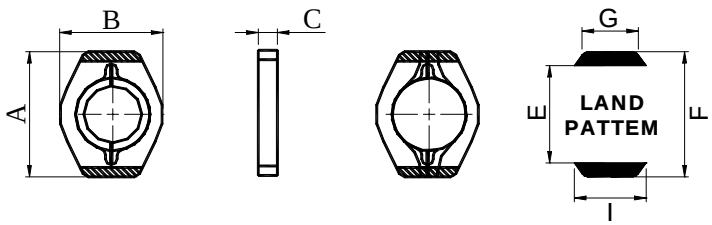
Product Identifications

MTOPC	□□□□	-	□□□	□
(1)	(2)		(3)	(4)

(1) Type
(2) Dimensions
(3) Inductance
(4) Tolerance

Shapes and Dimensions





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TYPE	A	B	C	E	F	I	G
MTOPC1704	6.80MAX	5.60MAX	1.00±0.10	4.70REF	6.90REF	3.80REF	2.50REF
MTOPC2505	9.40MAX	7.87MAX	1.6OMAX	7.24REF	9.65REF	5.84REF	5.06REF
MTOPC2506	9.40MAX	7.87MAX	1.80MAX	7.24REF	9.65REF	5.84REF	5.06REF
MTOPC2507	9.4MAX	7.87MAX	1.90MAX	7.24REF	9.65REF	5.84REF	5.06REF

Electrical Characteristics MTOPC 1704

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTOPC1704-1R0☐	1.0±20%	100KHz/0.1V	0.08	2.10
MTOPC1704-1R2☐	1.2±20%	100KHz/0.1V	0.09	2.00
MTOPC1704-1R5☐	1.5±20%	100KHz/0.1V	0.10	1.90
MTOPC1704-2R2☐	2.2±20%	100KHz/0.1V	0.12	1.60
MTOPC1704-3R3☐	3.3±20%	100KHz/0.1V	0.16	1.30
MTOPC1704-4R7☐	4.7±20%	100KHz/0.1V	0.20	1.10
MTOPC1704-5R6☐	5.6±20%	100KHz/0.1V	0.31	1.00
MTOPC1704-6R8☐	6.8±20%	100KHz/0.1V	0.32	0.90
MTOPC1704-8R2☐	8.2±20%	100KHz/0.1V	0.44	0.72
MTOPC1704-100☐	10±20%	100KHz/0.1V	0.49	0.68
MTOPC1704-150☐	15±20%	100KHz/0.1V	0.55	0.65
MTOPC1704-220☐	22±20%	100KHz/0.1V	0.85	0.50
MTOPC1704-330☐	33±20%	100KHz/0.1V	1.30	0.40
MTOPC1704-470☐	47±20%	100KHz/0.1V	1.80	0.35
MTOPC1704-680☐	68±20%	100KHz/0.1V	2.50	0.30
MTOPC1704-101☐	100±20%	100KHz/0.1V	3.50	0.25
MTOPC1704-331☐	330±20%	100KHz/0.1V	15.0	0.13

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

SMD Power Inductors
MTOPC Series

Electrical Characteristics — MTOPC 2505

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTOPC2505-3R0☐	3.0±20%	100KHz/0.1V	0.108	2.20
MTOPC2505-3R3☐	3.3±20%	100KHz/0.1V	0.121	3.00
MTOPC2505-4R7☐	4.7±20%	100KHz/0.1V	0.145	2.10
MTOPC2505-5R0☐	5.0±20%	100KHz/0.1V	0.150	2.00
MTOPC2505-6R8☐	6.8±20%	100KHz/0.1V	0.165	1.70
MTOPC2505-8R2☐	8.2±20%	100KHz/0.1V	0.240	1.60
MTOPC2505-100☐	10±20%	100KHz/0.1V	0.280	1.50
MTOPC2505-220☐	22±20%	100KHz/0.1V	0.420	1.00
MTOPC2505-470☐	47±20%	100KHz/0.1V	0.765	0.75
MTOPC2505-820☐	82±20%	100KHz/0.1V	2.000	0.60
MTOPC2505-101☐	100±20%	100KHz/0.1V	1.600	0.50
MTOPC2505-151☐	150±20%	100KHz/0.1V	3.500	0.50
MTOPC2505-221☐	220±20%	100KHz/0.1V	3.650	0.32
MTOPC2505-271☐	270±20%	100KHz/0.1V	5.800	0.45

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%

Electrical Characteristics — MTOPC 2506

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTOPC2506-3R0☐	3.0±20%	100KHz/0.1V	0.108	2.20
MTOPC2506-3R3☐	3.3±20%	100KHz/0.1V	0.121	3.00
MTOPC2506-4R7☐	4.7±20%	100KHz/0.1V	0.145	2.10
MTOPC2506-5R0☐	5.0±20%	100KHz/0.1V	0.150	2.00
MTOPC2506-6R8☐	6.8±20%	100KHz/0.1V	0.165	1.70
MTOPC2506-8R2☐	8.2±20%	100KHz/0.1V	0.240	1.60
MTOPC2506-100☐	10±20%	100KHz/0.1V	0.280	1.50
MTOPC2506-220☐	22±20%	100KHz/0.1V	0.420	1.00
MTOPC2506-470☐	47±20%	100KHz/0.1V	0.765	0.75
MTOPC2506-820☐	82±20%	100KHz/0.1V	2.000	0.60
MTOPC2506-101☐	100±20%	100KHz/0.1V	1.600	0.50
MTOPC2506-151☐	150±20%	100KHz/0.1V	3.500	0.50
MTOPC2506-221☐	220±20%	100KHz/0.1V	3.650	0.32
MTOPC2506-271☐	270±20%	100KHz/0.1V	5.800	0.45

SMD Power Inductors
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Electrical Characteristics — MTOPC 2507

Part number	Inductance (μH)	Test Frequency	DC Resistance (Ω) MAX.	Rated Current (A) MAX.
MTOPC2507-3R0☐	3.0±20%	100KHz/0.1V	0.077	3.8
MTOPC2507-3R3☐	3.3±20%	100KHz/0.1V	0.085	3.5
MTOPC2507-4R7☐	4.7±20%	100KHz/0.1V	0.125	3.0
MTOPC2507-5R0☐	5.0±20%	100KHz/0.1V	0.138	2.8
MTOPC2507-6R8☐	6.8±20%	100KHz/0.1V	0.188	2.5
MTOPC2507-8R2☐	8.2±20%	100KHz/0.1V	0.225	2.1
MTOPC2507-100☐	10±20%	100KHz/0.1V	0.239	1.9
MTOPC2507-220☐	22±20%	100KHz/0.1V	0.514	1.3
MTOPC2507-470☐	47±20%	100KHz/0.1V	0.950	0.9
MTOPC2507-680☐	68±20%	100KHz/0.1V	1.400	0.8
MTOPC2507-820☐	82±20%	100KHz/0.1V	1.800	0.7
MTOPC2507-101☐	100±20%	100KHz/0.1V	2.400	0.6
MTOPC2507-151☐	150±20%	100KHz/0.1V	2.900	0.5
MTOPC2507-221☐	220±20%	100KHz/0.1V	4.600	0.4
MTOPC2507-271☐	270±20%	100KHz/0.1V	6.300	0.3

☐ Tolerance：J = ± 5%，K = ± 10%，L = ± 15%，M = ± 20%，N = ± 30%