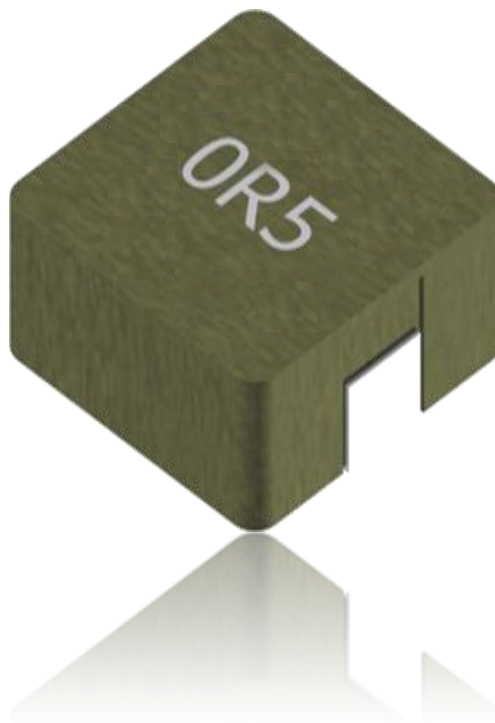


ABCO Standard Inductor

POWER INDUCTOR

LPMT1770-1HP SERIES



31, Dunchon-daero 388 Beon-gil
Seongnam-si, Gyeonggi-do, KOREA
Sales Dept. TEL:82-31-730-5082
FAX:82-31-730-5152
Eng. Dept. TEL:82-31-730-5053
FAX:82-31-730-5153

ABCO ELECTRONICS CO., LTD.

Inductor for Car of Metal Molding type



<http://www.abco.co.kr>

■ OPERATION TEMP.

LPMT-1HP Series : -40°C~+125°C(Including self-generated heat)

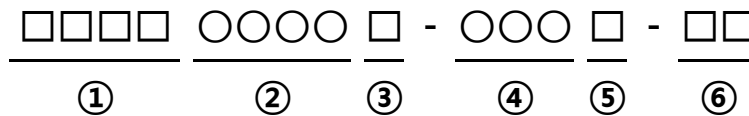
■ FEATURES

- Metal molding Construction
- High Current and Low Resistance

■ APPLICATIONS

DC/DC converters for PDA, Notebook, Desktop, Battery powered devices etc.

■ ORDERING CODE



①Type	
LPMT	

②Body size(LxWxH)	
1770	17.6X16.9X6.7

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R45	0.45μH
1R0	1.0μH
100	10μH
101	100μH

⑤Inductance Tol	
M	±20%
N	±30%

⑥Internal Code
1HP

LPMT1770-1HP SERIES



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LPMT1770-1HP SERIES

■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT1770-1HP	17.6±0.4	16.9±0.3	6.7±0.3	2.1±0.3	11.9±0.3

L(mm)	G(mm)	H(mm)
18.5	12.2	12.5

■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT1770T - R45M-1HP	0.45	± 20	100	0.96	0.80	125	62.0
LPMT1770T - R47M-1HP	0.47	± 20		1.03	0.95	123.0	62.0
LPMT1770T - 1R0M-1HP	1.00	± 20		2.00	1.60	70.0	52.0
LPMT1770T - 1R5M-1HP	1.50	± 20		2.50	2.00	65.0	47.0
LPMT1770T - 2R2M-1HP	2.20	± 20		2.70	2.40	62.0	43.5
LPMT1770T - 3R3M-1HP	3.30	± 20		3.90	3.50	54.0	28.0
LPMT1770T - 4R7M-1HP	4.70	± 20		5.50	4.80	50.0	25.0
LPMT1770T - 5R6M-1HP	5.60	± 20		7.05	5.80	45.0	21.0
LPMT1770T - 6R8M-1HP	6.80	± 20		9.20	8.40	39.0	19.0
LPMT1770T - 8R2M-1HP	8.20	± 20		10.8	9.60	31.0	18.0
LPMT1770T - 100M-1HP	10.0	± 20		13.0	11.8	29.0	16.5
LPMT1770T - 150M-1HP	15.0	± 20		20.5	17.8	27.0	12.5
LPMT1770T - 220M-1HP	22.0	± 20		26.5	25.1	23.0	12.0
LPMT1770T - 330M-1HP	33.0	± 20		44.0	38.0	20.0	10.7
LPMT1770T - 470M-1HP	47.0	± 20		55.0	48.0	16.0	8.7
LPMT1770T - 560M-1HP	56.0	± 20		62.0	54.0	15.0	7.8
LPMT1770T - 680M-1HP	68.0	± 20		80.0	68.0	13.0	7.0
LPMT1770T - 820M-1HP	82.0	± 20	100	87.0	12.0	5.7	
LPMT1770T - 101M-1HP	100	± 20	118	102	12.0	5.3	

▼ Test Equipments

- Inductance measured : HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER(100kHz, 1.0V)
- Rdc : CH16502,Agilent33420A MICRO OHMMETER.
- Saturation Current (Isat) will cause L0 to drop approximately 30%
- Heat Rated Current (Irms) will cause the coil temperature rise approximately Δt of 40°C
- ※ Rated DC current(Idc) : The value of Isat or Irms , whichever is smaller

▼ Operating Temperature Range

- 40°C ~ +125°C (Including self-generated heat)