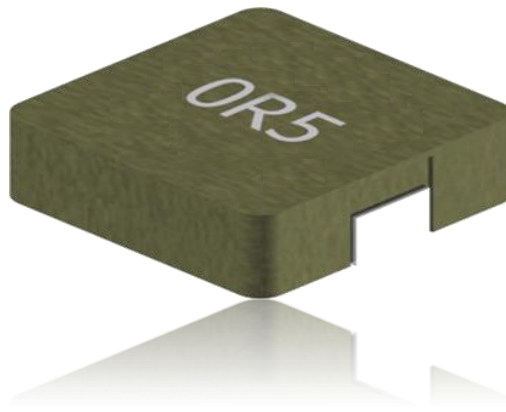


ABCO Standard Inductor

# POWER INDUCTOR

## LPMT1770-4SP 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

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ABCO ELECTRONICS CO., LTD.

# Inductor for Car of Metal Molding type



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

## ■ OPERATION TEMP.

LPMT1770-4SP series : -40°C~+125°C(Including self-generated heat)

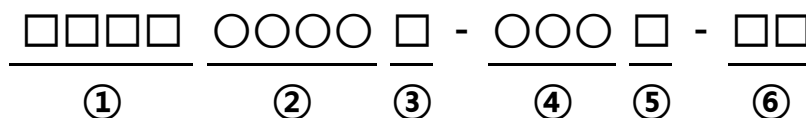
## ■ FEATURES

- 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	17.8X16.9X6.7

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH
100	10μH
101	100μH

⑤Inductance Tol	
M	±20%

⑥Internal Code	
4SP	

# LPMT1770-4SP SERIES

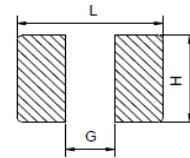
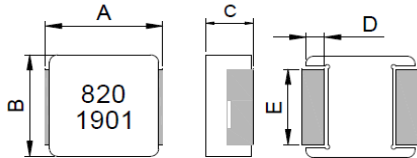


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## LPMT1770-4SP SERIES

### ■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT1770-4SP	17.8±0.5	16.9±0.3	6.7±0.3	2.3±0.3	11.9±0.3

L(mm)	G(mm)	H(mm)
18.5	12.0	12.5

### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT1770T - R47M-4SP	0.47	± 20	100	0.90	0.70	110	60.0
LPMT1770T - R56M-4SP	0.56	± 20		0.97	0.81	80.0	56.0
LPMT1770T - 1R0M-4SP	1.00	± 20		1.30	1.06	50.0	46.0
LPMT1770T - 1R5M-4SP	1.50	± 20		1.80	1.50	46.0	39.0
LPMT1770T - 2R2M-4SP	2.20	± 20		2.20	1.80	35.0	32.0
LPMT1770T - 3R3M-4SP	3.30	± 20		3.30	2.70	32.0	30.0
LPMT1770T - 4R7M-4SP	4.70	± 20		4.50	3.70	29.0	28.0
LPMT1770T - 6R8M-4SP	6.80	± 20		7.20	6.00	25.0	24.0
LPMT1770T - 100M-4SP	10.0	± 20		10.6	9.20	22.0	21.0
LPMT1770T - 150M-4SP	15.0	± 20		15.5	12.8	16.0	16.0
LPMT1770T - 220M-4SP	22.0	± 20		24.0	20.5	13.5	13.5
LPMT1770T - 330M-4SP	33.0	± 20		37.0	32.0	12.0	12.0
LPMT1770T - 470M-4SP	47.0	± 20		47.0	40.0	9.5	9.5
LPMT1770T - 680M-4SP	68.0	± 20		76.0	66.0	8.5	8.0
LPMT1770T - 820M-4SP	82.0	± 20		83.0	69.0	8.0	6.5
LPMT1770T - 101M-4SP	100	± 20		105	90.0	6.5	6.0

#### ▼ 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(I<sub>dc</sub>) : The value of Isat or Irms , whichever is smaller

#### ▼ Operating Temperature Range

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