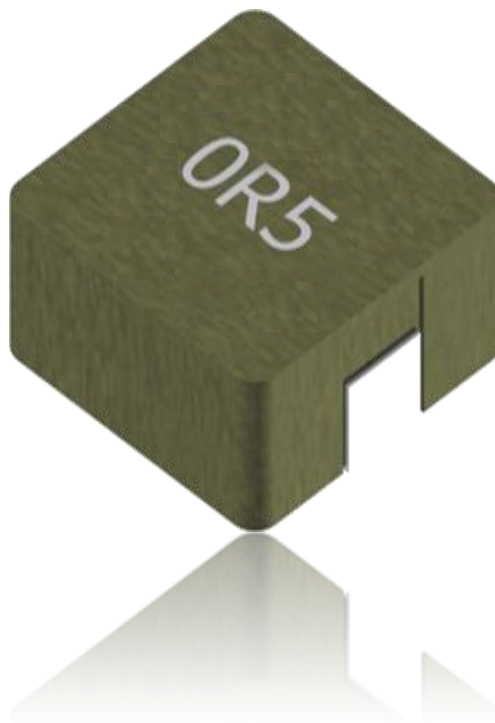


**ABCO Standard Inductor**

# **POWER INDUCTOR**

## **LPMT5018-1HP 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

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**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)

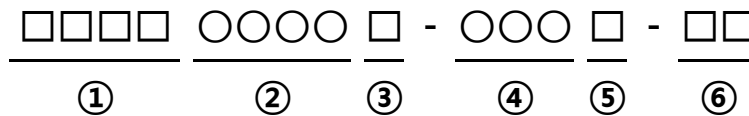
## ■ FEATURES

- 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)	
5018	5.7X5.2X1.6

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R15	0.15μH
1R0	1.0μH
100	10μH

⑤Inductance Tol	
M	±20%
N	±30%

⑥Internal Code
1HP

# LPMT5018-1HP SERIES

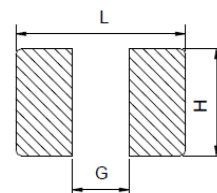
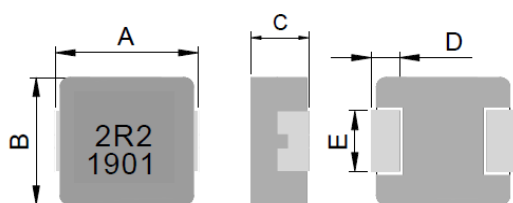


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## LPMT5018-1HP SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT5018-1HP	5.7±0.3	5.2±0.2	1.6±0.2	1.1±0.3	2.5±0.3

L(mm)	G(mm)	H(mm)
6.2	2.2	2.8

### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT5018T - R15N-1HP	0.15	± 30	100	3.9	3.5	27.0	15.5
LPMT5018T - R22M-1HP	0.22	± 20		5.0	4.2	22.0	13.0
LPMT5018T - R33M-1HP	0.33	± 20		8.6	7.5	15.0	11.0
LPMT5018T - R47M-1HP	0.47	± 20		11.3	9.8	14.0	10.0
LPMT5018T - R56M-1HP	0.56	± 20		13.0	11.0	13.5	9.5
LPMT5018T - R68M-1HP	0.68	± 20		14.3	12.4	13.0	9.0
LPMT5018T - 1R0M-1HP	1.00	± 20		21.0	18.2	10.0	6.8
LPMT5018T - 1R5M-1HP	1.50	± 20		30.0	26.0	9.0	6.0
LPMT5018T - 2R2M-1HP	2.20	± 20		48.3	42.0	7.5	4.5
LPMT5018T - 3R3M-1HP	3.30	± 20		69.0	60.0	5.0	3.5
LPMT5018T - 4R7M-1HP	4.70	± 20		98.0	85.0	4.5	3.0
LPMT5018T - 5R6M-1HP	5.60	± 20		127	110	4.0	2.5
LPMT5018T - 6R8M-1HP	6.80	± 20		137	118	3.5	2.4
LPMT5018T - 8R2M-1HP	8.20	± 20		165	143	3.0	2.3
LPMT5018T - 100M-1HP	10.0	± 20		190	165	2.8	2.3
LPMT5018T - 150M-1HP	15.0	± 20	318	275	2.3	1.7	

#### ▼ 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)