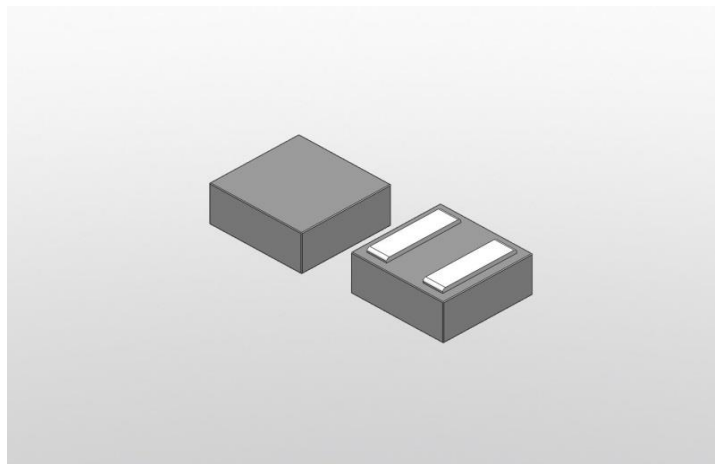


**ABCO Standard Inductor**

# **POWER INDUCTOR**

## **LPMT5020-90 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:82-31-730-5034  
FAX:82-31-730-5132

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**ABCO ELECTRONICS CO., LTD.**

# Inductor for Car of Metal Molding type



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

## ■ OPERATION TEMP.

LPMT-90 Series : -40°C~+125°C(Including self-generated heat)

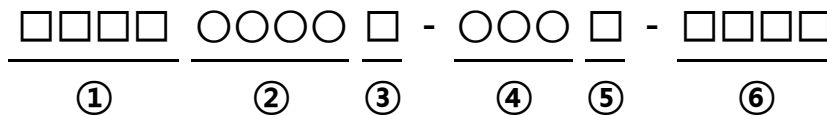
## ■ FEATURES

- 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)	
5020	6.0X5.7X1.9

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH

⑤Inductance Tol	
M	±20%

⑥Internal Code	
90	

# LPMT5020-90 SERIES

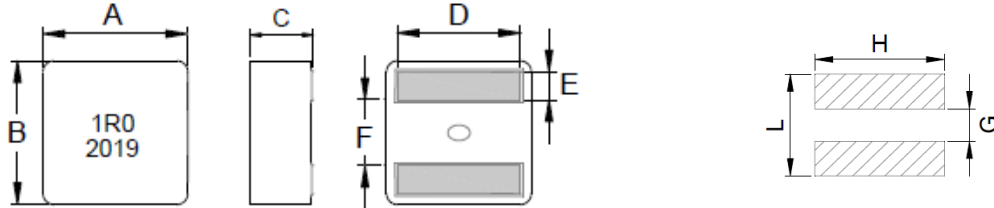


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## LPMT5020-90 SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
LPMT5020-90	6.0±0.20	5.7±0.20	1.90±0.20	4.30±0.30	1.10±0.20	2.30±0.25

L(mm)	G(mm)	H(mm)
4.50	2.00	4.70

### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT5020T - R15M-90	0.15	± 20	100	4.60	4.00	30.0	18.8
LPMT5020T - R16M-90	0.16	± 20		4.60	4.00	30.0	18.8
LPMT5020T - R33M-90	0.33	± 20		7.00	6.10	26.0	14.4
LPMT5020T - R47M-90	0.47	± 20		8.05	7.00	22.0	14.1
LPMT5020T - R56M-90	0.56	± 20		9.54	8.70	19.0	13.9
LPMT5020T - R68M-90	0.68	± 20		10.2	8.90	16.0	13.4
LPMT5020T - R80M-90	0.80	± 20		11.8	10.3	15.5	13.0
LPMT5020T - R82M-90	0.82	± 20		12.7	11.0	15.0	12.0
LPMT5020T - 1R0M-90	1.00	± 20		13.8	12.0	14.5	10.5
LPMT5020T - 1R2M-90	1.20	± 20		16.3	14.2	14.0	9.4
LPMT5020T - 1R5M-90	1.50	± 20		18.7	16.2	13.3	8.8

#### ▼ Test Equipments

- Inductance measured : HP4284A,CH11025,CH3302,CH1320,CH1320S LCR METER(100kHz, 0.1V)
- 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
- Rated operating voltage(across inductor) 40V ref.

#### ▼ Operating Temperature Range

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