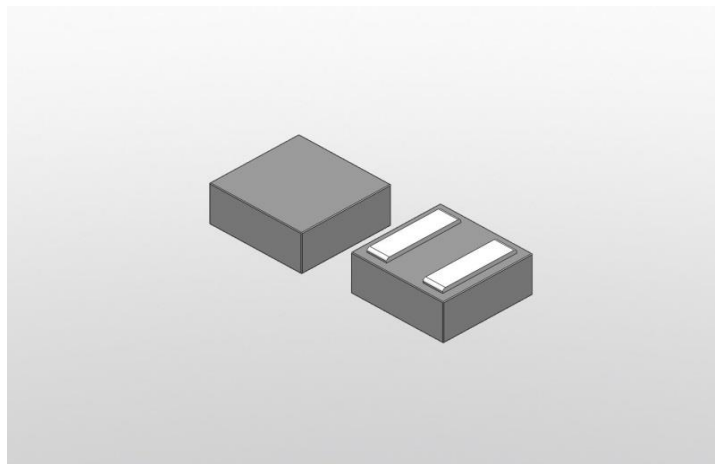


**ABCO Standard Inductor**

# **POWER INDUCTOR**

## **LPMT4020-90 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)

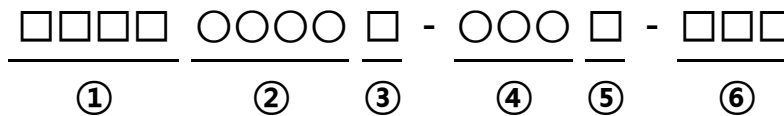
## ■ FEATURES

- 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)	
4020	4.4X4.4X1.9

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH

⑤Inductance Tol	
M	±20%

⑥Internal Code	
90	

# LPMT4020-90 SERIES

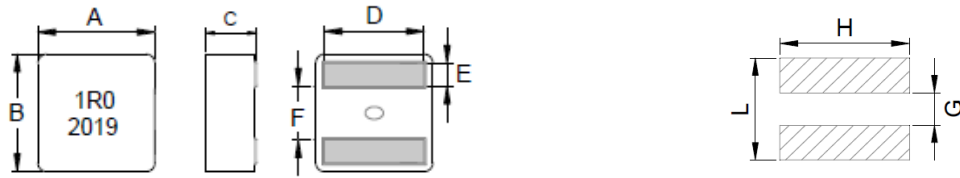


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## LPMT4020-90 SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
LPMT4020-90	4.40±0.20	4.40±0.20	1.90±0.20	3.40±0.30	0.88±0.20	1.60±0.25

L(mm)	G(mm)	H(mm)
3.40	1.40	3.80

### ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT4020T - R10M-90	0.10	± 20	100	2.42	2.20	38.0	18.0
LPMT4020T - R22M-90	0.22	± 20		4.60	4.10	19.5	16.8
LPMT4020T - R33M-90	0.33	± 20		5.50	5.00	18.0	15.5
LPMT4020T - R36M-90	0.36	± 20		6.30	5.60	17.0	14.5
LPMT4020T - R40M-90	0.40	± 20		7.73	6.90	15.5	14.0
LPMT4020T - R47M-90	0.47	± 20		8.58	7.80	14.5	12.5
LPMT4020T - R56M-90	0.56	± 20		9.30	8.40	14.0	12.0
LPMT4020T - R60M-90	0.60	± 20		9.52	8.60	13.7	11.7
LPMT4020T - R72M-90	0.72	± 20		11.6	10.4	12.0	10.5
LPMT4020T - 1R0M-90	1.00	± 20		14.6	13.3	9.6	9.6
LPMT4020T - 1R2M-90	1.20	± 20		17.9	16.2	9.0	9.0
LPMT4020T - 1R5M-90	1.50	± 20		23.5	21.0	8.0	7.6
LPMT4020T - 1R8M-90	1.80	± 20		28.0	25.0	7.5	7.0

#### ▼ 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(I<sub>dc</sub>) : The value of Isat or Irms , whichever is smaller
- Rated operating voltage(across inductor) 15V ref(1.5uH and above).  
 Rated operating voltage(across inductor) 40V ref (1.2uH and below).

#### ▼ Operating Temperature Range

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