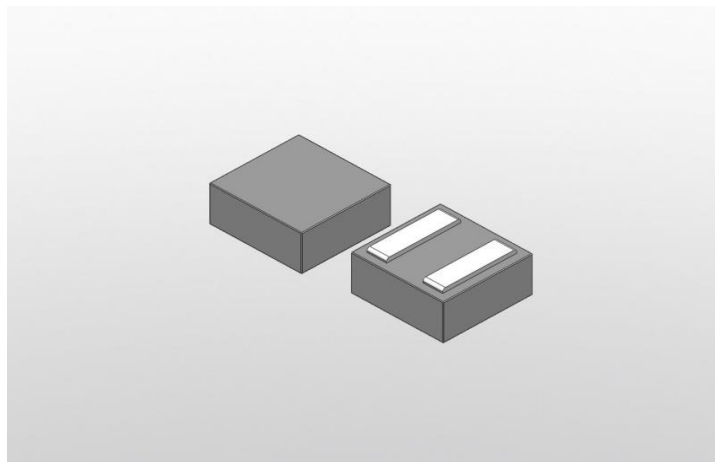


ABCO Standard Inductor

**AEC-Q200**

# POWER INDUCTOR

## LPMT1513-A90 SERIES



31, Dunchon-daero 388 Beon-gil  
Seongnam-si, Gyeonggi-do, KOREA  
Sales Dept. TEL:82-31-730-5082  
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Eng. Dept. TEL:82-31-730-5034  
FAX:82-31-730-5132

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ABCO ELECTRONICS CO., LTD.

**■ OPERATION TEMP.**

LPMT-A90 Series : -55°C~+155°C(Including self-generated heat)

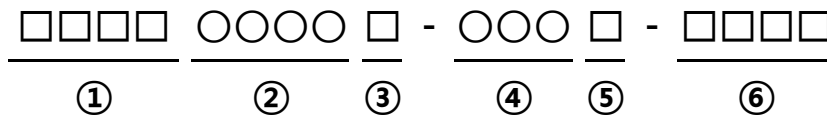
**■ FEATURES**

- Metal molding Construction
- High Current and Low Resistance

**■ APPLICATIONS**

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

**■ ORDERING CODE**



<b>①Type</b>
LPMT

<b>②Body size(LxWxH)</b>	
1513	17.5X16.5X12.7

<b>③Packing</b>	
T	TAPING
B	BULK

<b>④Inductance Value</b>	
1R0	1.0μH
100	10μH

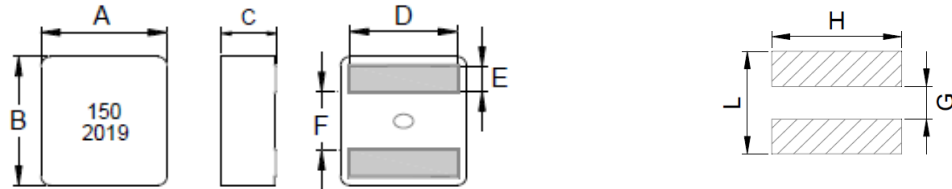
<b>⑤Inductance Tol</b>	
M	±20%

<b>⑥Internal Code</b>	
A90	

**LPMT1513-A90 SERIES**

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
LPMT1513-A90	17.5±0.3	16.5±0.3	12.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3

L(mm)	G(mm)	H(mm)
15.0 Ref	6.0 Ref	15.0 Ref

**■ ELECTRICAL CHARACTERISTICS**

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT1513T - 5R6M-A90	5.60	± 20	100	3.90	3.50	40.0	29.0
LPMT1513T - 6R8M-A90	6.80	± 20		4.20	3.80	37.0	27.0
LPMT1513T - 8R2M-A90	8.20	± 20		5.74	5.10	33.0	26.0
LPMT1513T - 100M-A90	10.0	± 20		7.00	6.30	30.0	25.0
LPMT1513T - 150M-A90	15.0	± 20		7.50	6.80	25.5	22.0
LPMT1513T - 220M-A90	22.0	± 20		13.86	12.60	22.0	17.0
LPMT1513T - 330M-A90	33.0	± 20		22.20	18.50	19.0	14.0

**▼ 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(Idc) : The value of Isat or Irms , whichever is smaller
- Rated operating voltage(across inductor) 40V ref.

**▼ Operating Temperature Range**

-55°C ~ +155°C (Including self-generated heat)