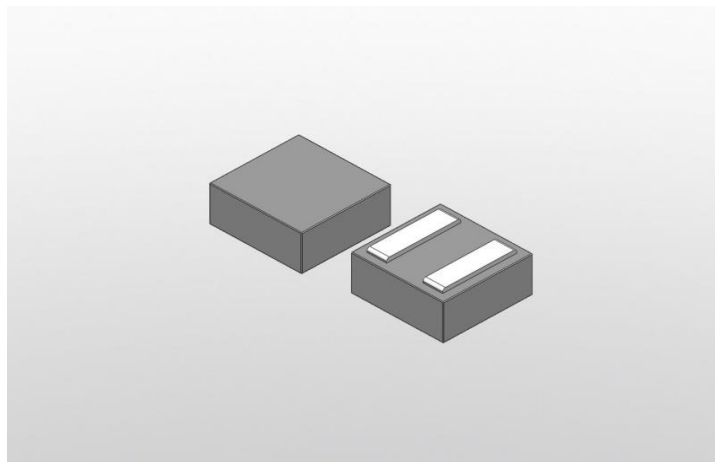


ABCO Standard Inductor

AEC-Q200

POWER INDUCTOR

LPMT1510-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

ABCO ELECTRONICS CO., LTD.

■ **OPERATION TEMP.**

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

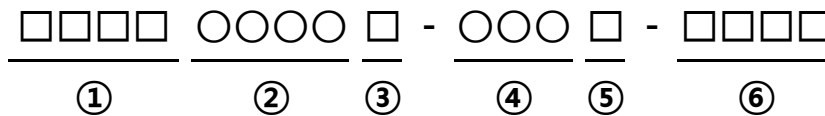
■ **FEATURES**

- Metal molding Construction
- High Current and Low Resistance

■ **APPLICATIONS**

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

■ **ORDERING CODE**



①Type	
LPMT	

②Body size(LxWxH)	
1510	17.5X16.5X9.7

③Packing	
T	TAPING
B	BULK

④Inductance Value	
1R0	1.0μH
100	10μH

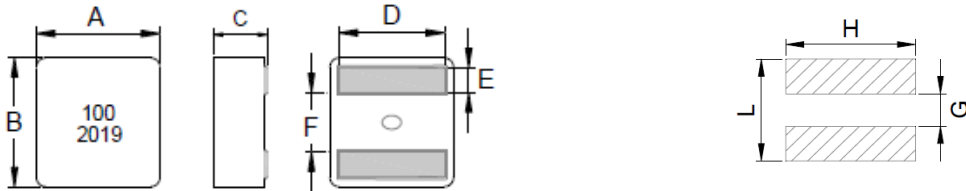
⑤Inductance Tol	
M	±20%

⑥Internal Code	
A90	

LPMT1510-A90 SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
LPMT1510-A90	17.5±0.3	16.5±0.3	9.7±0.3	13.2±0.5	3.2±0.2	7.0±0.3

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

■ **ELECTRICAL CHARACTERISTICS**

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT1510T - 4R7M-A90	4.70	± 20	100	3.80	3.40	43.0	30.0
LPMT1510T - 5R6M-A90	5.60	± 20		4.20	3.82	38.0	28.0
LPMT1510T - 6R8M-A90	6.80	± 20		4.60	4.18	36.0	26.0
LPMT1510T - 8R2M-A90	8.20	± 20		7.20	6.00	32.0	25.0
LPMT1510T - 100M-A90	10.0	± 20		8.60	7.10	29.0	24.0
LPMT1510T - 150M-A90	15.0	± 20		11.5	9.2	23.0	18.0
LPMT1510T - 220M-A90	22.0	± 20		15.8	13.2	20.0	16.0
LPMT1510T - 330M-A90	33.0	± 20		20.0	18.7	18.7	13.0

▼ **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_{dc}) : 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)