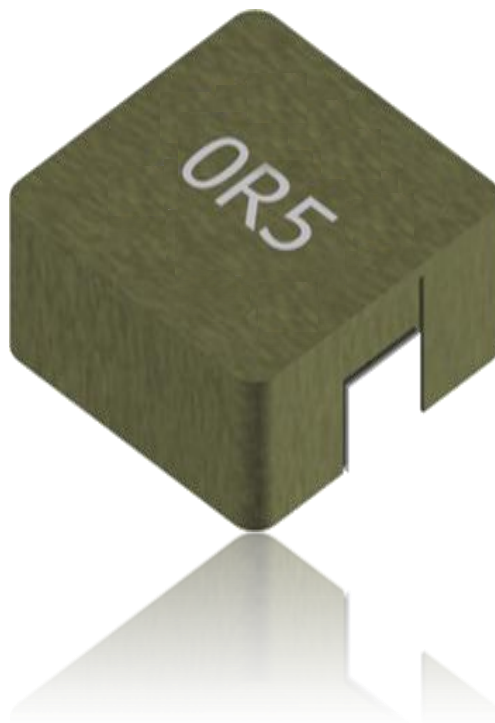


ABCO Standard Inductor

AEC-Q200

POWER INDUCTOR

LPMT6512-A1 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

ABCO ELECTRONICS CO., LTD.

■ **OPERATION TEMP.**

LPMT-A1 Series : -55°C~+125°C(Including self-generated heat)

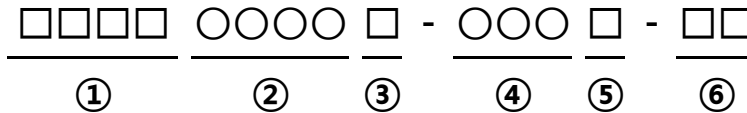
■ **FEATURES**

- 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)	
6512	7.0X6.6X1.0

③Packing	
T	TAPING
B	BULK

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

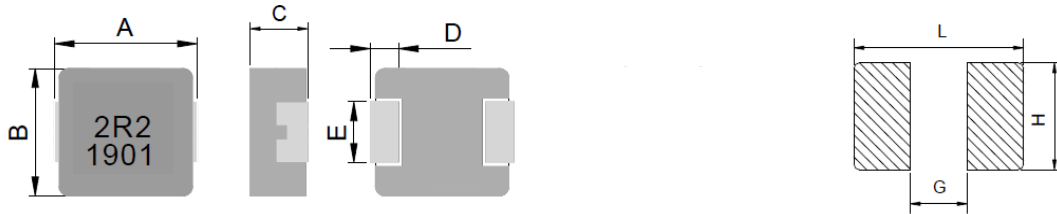
⑤Inductance Tol	
M	±20%
N	±30%

⑥Internal Code	
A1	

LPMT6512-A1 SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT6512-A1	7.0±0.3	6.6±0.3	1.0±0.2	1.8±0.3	2.5±0.3

L(mm)	G(mm)	H(mm)
7.7	2.5	3.0

■ **ELECTRICAL CHARACTERISTICS**

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT6512T - R15N-A1	0.15	± 30	100	5.7	4.9	24.0	14.0
LPMT6512T - R22N-A1	0.22	± 30		7.5	6.5	19.0	11.0
LPMT6512T - R33M-A1	0.33	± 20		10.0	9.0	16.0	9.5
LPMT6512T - R47M-A1	0.47	± 20		17.0	13.0	12.0	8.5
LPMT6512T - R68M-A1	0.68	± 20		19.0	17.0	9.0	7.0
LPMT6512T - 1R0M-A1	1.00	± 20		30.0	27.0	7.0	6.0
LPMT6512T - 1R5M-A1	1.50	± 20		40.0	35.0	6.5	4.5
LPMT6512T - 2R2M-A1	2.20	± 20		61.0	53.0	5.0	4.0
LPMT6512T - 3R3M-A1	3.30	± 20		103	90.0	4.0	3.2
LPMT6512T - 4R7M-A1	4.70	± 20		150	130	3.8	2.5
LPMT6512T - 6R8M-A1	6.80	± 20		198	172	3.0	2.1
LPMT6512T - 100M-A1	10.0	± 20		290	280	2.5	1.8
LPMT6512T - 180M-A1	18.0	± 20		540	490	2.0	1.35
LPMT6512T - 220M-A1	22.0	± 20		600	540	1.7	1.2

▼ **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_{dc}) : The value of Isat or Irms , whichever is smaller

▼ **Operating Temperature Range**

-55°C ~ +125°C (Including self-generated heat)