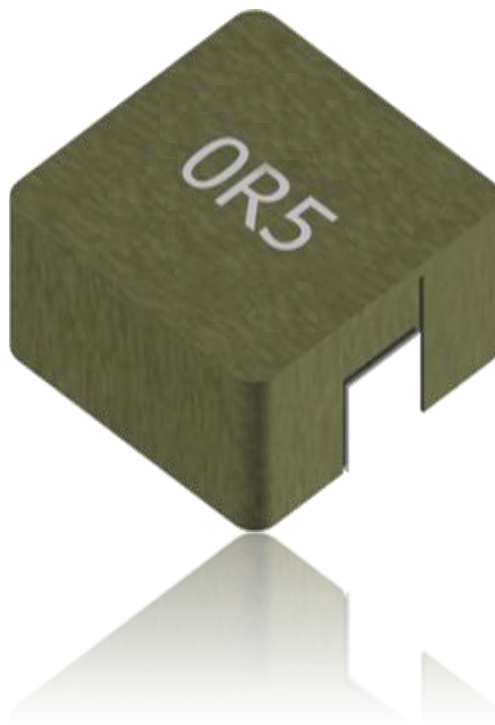


ABCO Standard Inductor

**AEC-Q200**

# POWER INDUCTOR

## LPMT4012-A1 SERIES



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

-



-

1
2
3
4
5
6

①Type	
LPMT	

②Body size(LxWxH)	
4012	4.45X4.06X1.0

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.10μH
1R0	1.0μH
100	10μH

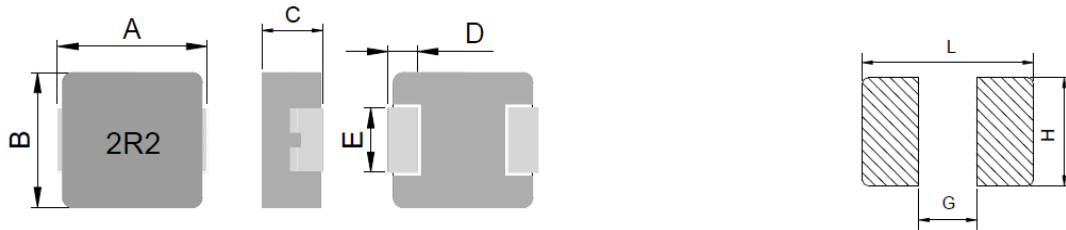
⑤Inductance Tol	
M	±20%
N	±30%

⑥Internal Code
A1

## LPMT4012-A1 SERIES

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)
LPMT4012-A1	4.45±0.25	4.06±0.25	1.0±0.2	0.76±0.30	2.0±0.20

L(mm)	G(mm)	H(mm)
5.2	2.2	2.3

## ■ ELECTRICAL CHARACTERISTICS

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)
				Max.	Typ.	Typ.	Typ.
LPMT4012T - R10N-A1	0.10	± 30	100	5.5	4.3	25.0	11.5
LPMT4012T - R22M-A1	0.22	± 20		8.0	6.6	20.0	8.5
LPMT4012T - R33M-A1	0.33	± 20		16.0	13.6	11.0	7.0
LPMT4012T - R36M-A1	0.36	± 20		18.0	15.5	8.5	6.5
LPMT4012T - R47M-A1	0.47	± 20		20.0	18.0	6.5	6.0
LPMT4012T - R68M-A1	0.68	± 20		37.0	32.0	6.0	5.0
LPMT4012T - 1R0M-A1	1.00	± 20		47.0	41.0	6.0	4.0
LPMT4012T - 1R5M-A1	1.50	± 20		63.3	55.0	4.0	3.0
LPMT4012T - 2R2M-A1	2.20	± 20		80.0	69.2	3.5	2.8
LPMT4012T - 3R3M-A1	3.30	± 20		97.0	84.0	3.0	2.3
LPMT4012T - 4R7M-A1	4.70	± 20		145	128	2.5	2.0
LPMT4012T - 5R6M-A1	5.60	± 20		208	180	2.3	1.7
LPMT4012T - 6R8M-A1	6.80	± 20		360	300	1.7	1.5
LPMT4012T - 8R2M-A1	8.20	± 20		376	313	1.6	1.4
LPMT4012T - 100M-A1	10.0	± 20		463	410	1.4	1.3
LPMT4012T - 220M-A1	22.0	± 20		1050	950	1.0	0.8

## ▼ 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(Idc) : The value of Isat or Irms , whichever is smaller

## ▼ Operating Temperature Range

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