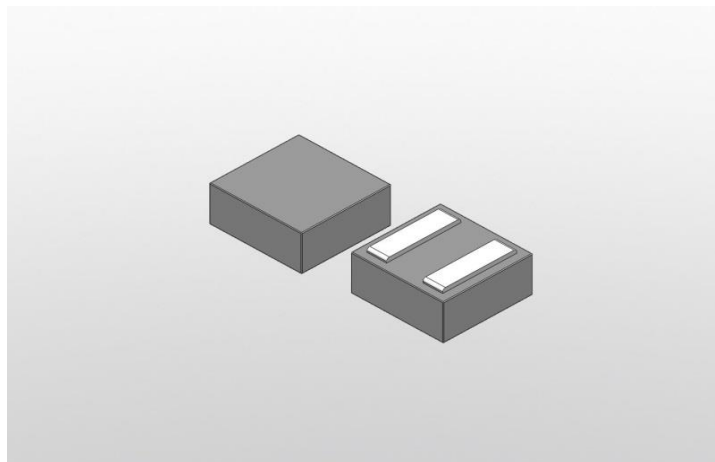


ABCO Standard Inductor

**AEC-Q200**

## POWER INDUCTOR LPMT6530-A90 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-A90 Series : -55°C~+155°C(Including self-generated heat)

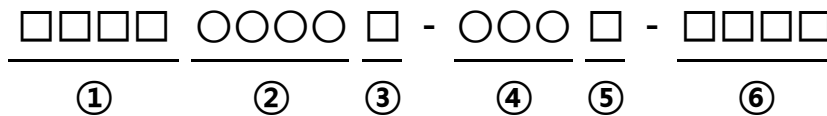
■ **FEATURES**

- 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)	
6530	7.2X6.9X2.9

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH

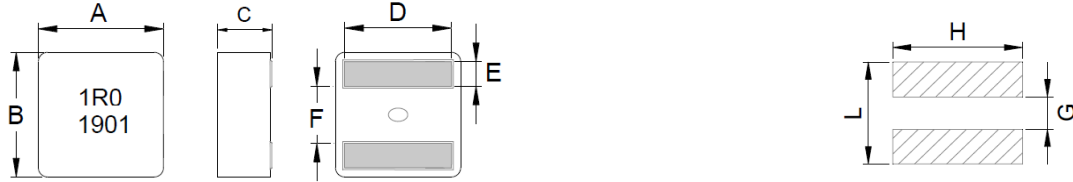
⑤Inductance Tol	
M	±20%

⑥Internal Code	
A90	

**LPMT6530-A90 SERIES**

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)	L(mm)	G(mm)	H(mm)
LPMT6530-A90	7.20±0.20	6.90±0.20	2.8±0.2 1.2uH and below 2.9±0.2 1.5uH and above	See Spec. Table	1.40±0.20	2.60±0.25	5.60	2.50	5.60

■ **ELECTRICAL CHARACTERISTICS**

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)	D(mm)
				Max.	Typ.	Typ.	Typ.	±0.3
LPMT6530T - R18M-A90	0.18	± 20	100	1.75	1.60	40.0	32.0	5.30
LPMT6530T - R33M-A90	0.33	± 20		2.50	2.25	32.0	25.0	5.55
LPMT6530T - R56M-A90	0.56	± 20		3.31	3.00	29.0	22.0	5.30
LPMT6530T - R68M-A90	0.68	± 20		5.17	4.70	25.0	20.0	5.30
LPMT6530T - 1R0M-A90	1.00	± 20		6.05	5.50	23.0	18.0	5.20
LPMT6530T - 1R2M-A90	1.20	± 20		7.40	6.70	22.0	16.0	5.15
LPMT6530T - 1R5M-A90	1.50	± 20		9.13	8.30	20.0	15.0	5.15
LPMT6530T - 1R8M-A90	1.80	± 20		10.2	9.20	18.2	14.0	5.10
LPMT6530T - 2R2M-A90	2.20	± 20		12.2	11.0	15.9	10.0	5.05
LPMT6530T - 3R3M-A90	3.30	± 20		20.8	18.8	12.2	8.0	5.00
LPMT6530T - 4R5M-A90	4.50	± 20		25.3	23.0	10.0	7.0	5.00

▼ **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) 40V ref.

▼ **Operating Temperature Range**

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