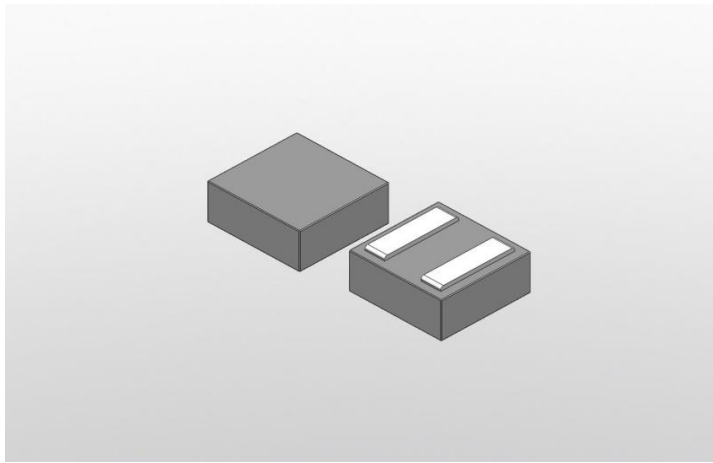


ABCO Standard Inductor

**AEC-Q200**

# POWER INDUCTOR

## LPMT7020-A90 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:82-31-730-5034  
FAX:82-31-730-5132

---

ABCO ELECTRONICS CO., LTD.

■ **OPERATION TEMP.**

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

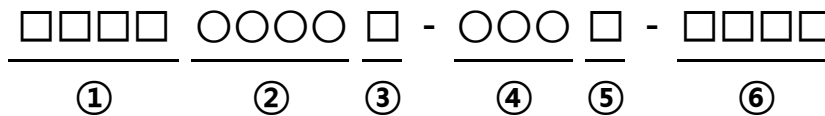
■ **FEATURES**

- 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)	
7020	8.4X8.0X1.85

③Packing	
T	TAPING
B	BULK

④Inductance Value	
R10	0.1μH
1R0	1.0μH

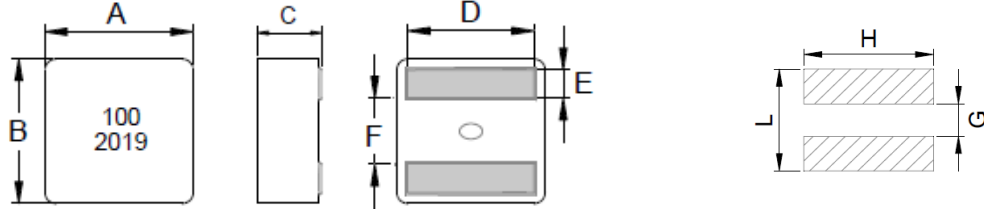
⑤Inductance Tol	
M	±20%

⑥Internal Code	
A90	

**LPMT7020-A90 SERIES**

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

Unit:mm



Series	A(mm)	B(mm)	C(mm)	D(mm)	E(mm)	F(mm)
LPMT7020-A90	8.40±0.30	8.0±0.30	1.85±0.20	See Spec.Table	1.75±0.20	3.15±0.25

L(mm)	G(mm)	H(mm)
7.40	2.80	7.20

■ **ELECTRICAL CHARACTERISTICS**

Ordering code	Inductance [μH]	Tolerance (%)	Freq. (kHz)	Rdc(mΩ)		Isat(A)	Irms(A)	D(mm)
				Max.	Typ.	Typ.	Typ.	±0.3
LPMT7020T - R15M-A90	0.15	± 20	100	2.5	1.9	51.0	24.0	6.6
LPMT7020T - R27M-A90	0.27	± 20		3.5	2.9	35.0	21.0	6.6
LPMT7020T - R31M-A90	0.31	± 20		4.8	4.0	34.0	20.0	6.2
LPMT7020T - R33M-A90	0.33	± 20		4.8	4.0	34.0	19.0	6.2
LPMT7020T - R47M-A90	0.47	± 20		6.2	5.1	28.0	17.0	6.2
LPMT7020T - R68M-A90	0.68	± 20		9.2	7.9	25.0	13.0	6.2
LPMT7020T - 1R0M-A90	1.00	± 20		10.8	9.8	23.0	11.0	6.2
LPMT7020T - 1R2M-A90	1.20	± 20		12.8	11.5	21.0	10.0	6.2
LPMT7020T - 1R5M-A90	1.50	± 20		17.6	16.0	17.0	9.0	6.2
LPMT7020T - 1R8M-A90	1.8	± 20		19.8	18.0	15.0	8.0	6.2

▼ **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)