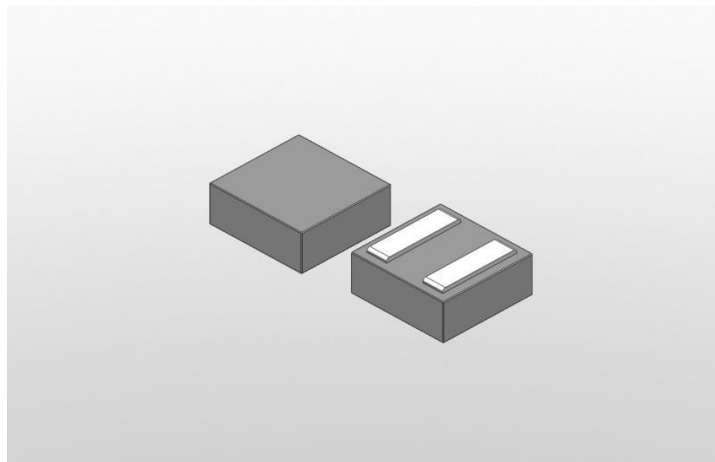


ABCO Standard Inductor

POWER INDUCTOR

LPMT7070-90 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.

Inductor for Car of Metal Molding type



<http://www.abco.co.kr>

■ OPERATION TEMP.

LPMT-90 Series : -40°C~+125°C(Including self-generated heat)

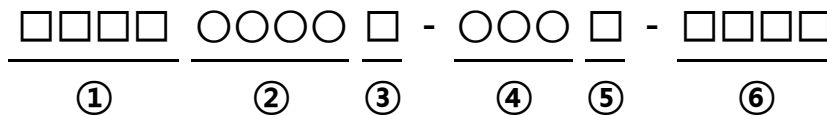
■ FEATURES

- 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) | |
|-------------------|-------------|
| 7070 | 8.4X8.0X6.7 |

| ③Packing | |
|----------|--------|
| T | TAPING |
| B | BULK |

| ④Inductance Value | |
|-------------------|-------|
| 1R0 | 1.0μH |
| 100 | 10μH |

| ⑤Inductance Tol | |
|-----------------|------|
| M | ±20% |

| ⑥Internal Code | |
|----------------|--|
| 90 | |

LPMT7070-90 SERIES

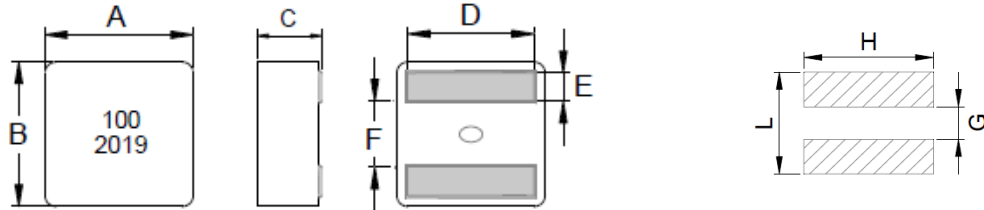


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LPMT7070-90 SERIES

■ SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN

Unit:mm



| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) | F(mm) |
|-------------|-----------|----------|-----------|----------------|-----------|-----------|
| LPMT7070-90 | 8.40±0.30 | 8.0±0.30 | 6.70±0.30 | See Spec.Table | 1.75±0.20 | 3.15±0.25 |

| L(mm) | G(mm) | H(mm) |
|-------|-------|-------|
| 7.80 | 2.80 | 6.70 |

■ ELECTRICAL CHARACTERISTICS

| Ordering code | Inductance [μH] | Tolerance (%) | Freq. (kHz) | Rdc(mΩ) | | Isat(A) | Irms(A) | D(mm) |
|---------------------|--------------------|------------------|----------------|---------|------|---------|---------|-------|
| | | | | Max. | Typ. | Typ. | Typ. | ±0.3 |
| LPMT7070T - 2R2M-90 | 2.20 | ± 20 | 100 | 6.33 | 5.73 | 19.6 | 17.8 | 6.7 |
| LPMT7070T - 3R3M-90 | 3.30 | ± 20 | | 9.42 | 8.56 | 19.4 | 15.1 | 6.7 |
| LPMT7070T - 4R7M-90 | 4.70 | ± 20 | | 13.50 | 12.2 | 15.5 | 13.6 | 6.7 |
| LPMT7070T - 6R8M-90 | 6.80 | ± 20 | | 19.60 | 17.8 | 12.8 | 9.5 | 6.5 |
| LPMT7070T - 100M-90 | 10.0 | ± 20 | | 26.40 | 24.0 | 10.0 | 7.0 | 6.5 |

▼ 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

- 40°C ~ +125°C (Including self-generated heat)