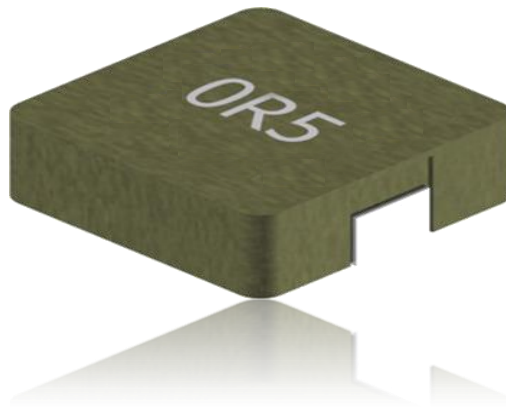


ABCO Standard Inductor

POWER INDUCTOR

LPMT1040-4S 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.

Inductor for Car of Metal Molding type



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

■ OPERATION TEMP.

LPMT1040-4S series : -40°C~+125°C(Including self-generated heat)

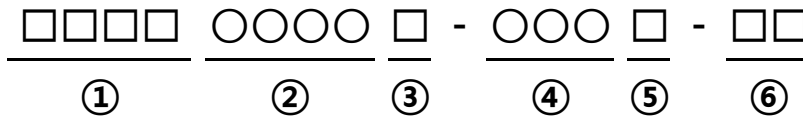
■ FEATURES

- 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) | |
| 1040 | 11.0X10.0X3.8 |

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

| | |
|-------------------|-------|
| ④Inductance Value | |
| R10 | 0.1μH |
| 1R0 | 1.0μH |
| 100 | 10μH |
| 101 | 100μH |

| | |
|-----------------|------|
| ⑤Inductance Tol | |
| M | ±20% |
| N | ±30% |

| | |
|----------------|--|
| ⑥Internal Code | |
| 4S | |

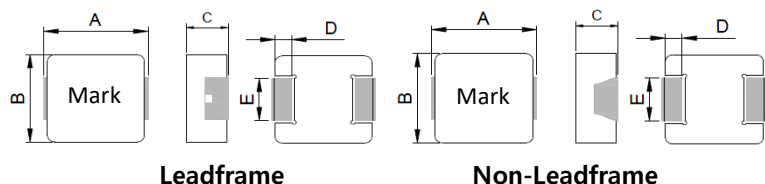
LPMT1040-4S SERIES



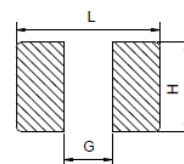
http://www.abco.co.kr

LPMT1040-4S SERIES

SHAPE & DIMENSIONS / RECOMMENDED SOLDER LAND PATTERN



Unit:mm



| Series | A(mm) | B(mm) | C(mm) | D(mm) | *E(mm) | |
|-------------|----------|----------|---------|---------|---------|--------------------------------------|
| | | | | | 2.5±0.3 | 0.56~1.50uH |
| LPMT1040-4S | 11.0±0.3 | 10.0±0.3 | 3.8±0.2 | 2.0±0.3 | 3.0±0.3 | 0.47uH and below 1.80uH and above |

| L(mm) | G(mm) | H(mm) |
|-------|-------|-------|
| 12.5 | 5.4 | 3.5 |

* Under 1.8μH is non-leadframe specification

ELECTRICAL CHARACTERISTICS

| Ordering code | Inductance [μH] | Tolerance (%) | Freq. (kHz) | Rdc(mΩ) | | Isat(A) | Irms(A) |
|---------------------|--------------------|------------------|----------------|---------|------|---------|---------|
| | | | | Max. | Typ. | Typ. | Typ. |
| LPMT1040T - R15M-4S | 0.15 | ± 30 | 100 | 0.6 | 0.5 | 82.0 | 44.0 |
| LPMT1040T - R22M-4S | 0.22 | ± 20 | | 0.83 | 0.72 | 70.0 | 36.0 |
| LPMT1040T - R36M-4S | 0.36 | ± 20 | | 1.18 | 1.05 | 51.0 | 33.0 |
| LPMT1040T - R47M-4S | 0.47 | ± 20 | | 1.50 | 1.30 | 46.0 | 32.0 |
| LPMT1040T - R56M-4S | 0.56 | ± 20 | | 1.80 | 1.60 | 34.0 | 25.0 |
| LPMT1040T - R68M-4S | 0.68 | ± 20 | | 2.20 | 1.90 | 31.0 | 23.0 |
| LPMT1040T - 1R0M-4S | 1.00 | ± 20 | | 3.25 | 2.90 | 29.0 | 20.0 |
| LPMT1040T - 1R5M-4S | 1.50 | ± 20 | | 4.20 | 3.70 | 26.0 | 17.5 |
| LPMT1040T - 1R8M-4S | 1.80 | ± 20 | | 5.70 | 5.10 | 23.0 | 16.5 |
| LPMT1040T - 2R2M-4S | 2.20 | ± 20 | | 6.70 | 5.80 | 20.0 | 15.0 |
| LPMT1040T - 3R3M-4S | 3.30 | ± 20 | | 11.8 | 10.5 | 17.5 | 11.0 |
| LPMT1040T - 4R7M-4S | 4.70 | ± 20 | | 19.0 | 15.8 | 15.2 | 8.80 |
| LPMT1040T - 5R6M-4S | 5.60 | ± 20 | | 22.8 | 19.0 | 14.1 | 8.00 |
| LPMT1040T - 6R8M-4S | 6.80 | ± 20 | | 24.5 | 22.0 | 12.2 | 7.80 |
| LPMT1040T - 8R2M-4S | 8.20 | ± 20 | | 28.0 | 25.0 | 9.5 | 7.60 |
| LPMT1040T - 100M-4S | 10.0 | ± 20 | | 30.0 | 27.0 | 8.6 | 7.50 |
| LPMT1040T - 150M-4S | 15.0 | ± 20 | | 45.0 | 41.0 | 7.0 | 6.25 |
| LPMT1040T - 220M-4S | 22.0 | ± 20 | | 66.0 | 58.0 | 6.2 | 5.00 |
| LPMT1040T - 330M-4S | 33.0 | ± 20 | | 91.0 | 84.0 | 5.5 | 4.40 |
| LPMT1040T - 470M-4S | 47.0 | ± 20 | | 143 | 125 | 4.0 | 3.50 |

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

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