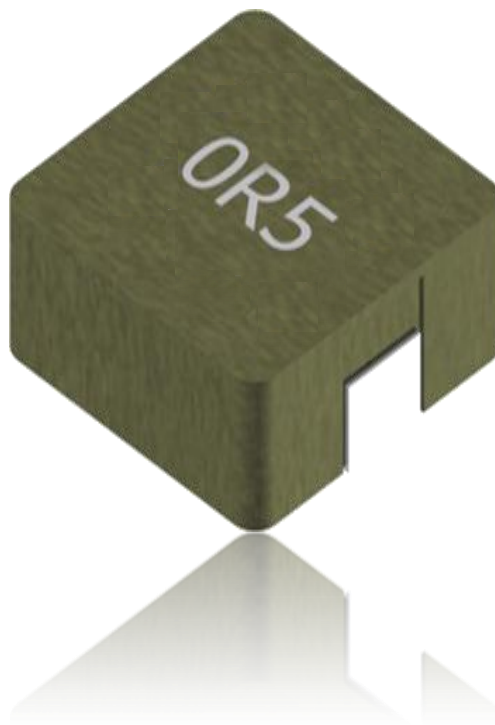


ABCO Standard Inductor

AEC-Q200

POWER INDUCTOR

LPMT3015-A1 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.

■ OPERATION TEMP.

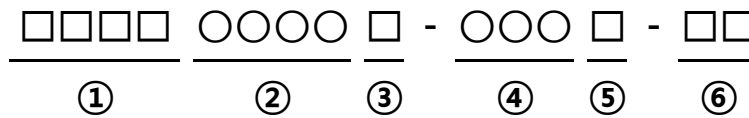
LPMT-A1 Series : -55°C~+125°C(Including self-generated heat)

■ FEATURES

- Metal molding Construction
- High Current and Low Resistance

■ APPLICATIONS

DC/DC converters for PDA, Notebook, Desktop, Battery powered devices etc.

■ ORDERING CODE

| | |
|-------|--|
| ①Type | |
| LPMT | |

| | |
|-------------------|-------------|
| ②Body size(LxWxH) | |
| 3015 | 3.5X3.2X1.3 |

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

| | |
|-------------------|--------|
| ④Inductance Value | |
| R22 | 0.22μH |
| 1R0 | 1.0μH |
| 100 | 10μH |

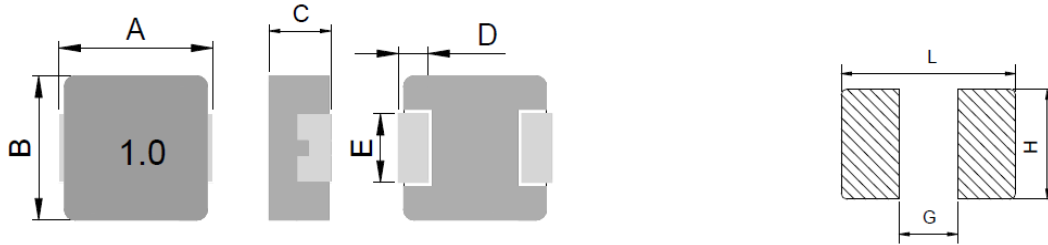
| | |
|-----------------|------|
| ⑤Inductance Tol | |
| M | ±20% |
| N | ±30% |

| | |
|----------------|--|
| ⑥Internal Code | |
| A1 | |

LPMT3015-A1 SERIES

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

Unit:mm



| Series | A(mm) | B(mm) | C(mm) | D(mm) | E(mm) |
|-------------|---------|---------|---------|---------|---------|
| LPMT3020-A1 | 3.5±0.2 | 3.2±0.2 | 1.3±0.2 | 0.7±0.2 | 1.2±0.2 |

| L(mm) | G(mm) | H(mm) |
|-------|-------|-------|
| 4.1 | 1.9 | 1.45 |

■ **ELECTRICAL CHARACTERISTICS**

| Ordering code | Inductance [μH] | Tolerance (%) | Freq. (kHz) | Rdc(mΩ) | | Isat(A) | Irms(A) |
|---------------------|--------------------|------------------|----------------|---------|------|---------|---------|
| | | | | Max. | Typ. | Typ. | Typ. |
| LPMT3015T - R22M-A1 | 0.22 | ± 20 | 100 | 17.0 | 14.0 | 10.8 | 7.0 |
| LPMT3015T - R47M-A1 | 0.47 | ± 20 | | 28.0 | 23.3 | 8.0 | 5.5 |
| LPMT3015T - R56M-A1 | 0.56 | ± 20 | | 33.0 | 28.0 | 7.2 | 5.0 |
| LPMT3015T - R68M-A1 | 0.68 | ± 20 | | 42.0 | 34.0 | 6.5 | 4.5 |
| LPMT3015T - 1R0M-A1 | 1.00 | ± 20 | | 50.0 | 41.0 | 5.8 | 3.6 |
| LPMT3015T - 1R5M-A1 | 1.50 | ± 20 | | 77.0 | 64.0 | 4.0 | 3.4 |
| LPMT3015T - 2R2M-A1 | 2.20 | ± 20 | | 98.0 | 82.0 | 3.8 | 3.2 |
| LPMT3015T - 3R3M-A1 | 3.30 | ± 20 | | 205 | 170 | 3.2 | 2.5 |
| LPMT3015T - 4R7M-A1 | 4.70 | ± 20 | | 264 | 220 | 2.8 | 1.9 |
| LPMT3015T - 5R6M-A1 | 5.60 | ± 20 | | 318 | 265 | 2.3 | 1.7 |
| LPMT3015T - 6R8M-A1 | 6.80 | ± 20 | | 348 | 290 | 2.0 | 1.5 |
| LPMT3015T - 8R2M-A1 | 8.20 | ± 20 | | 468 | 390 | 1.8 | 1.3 |
| LPMT3015T - 100M-A1 | 10.0 | ± 20 | | 522 | 435 | 1.6 | 1.2 |

▼ **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)