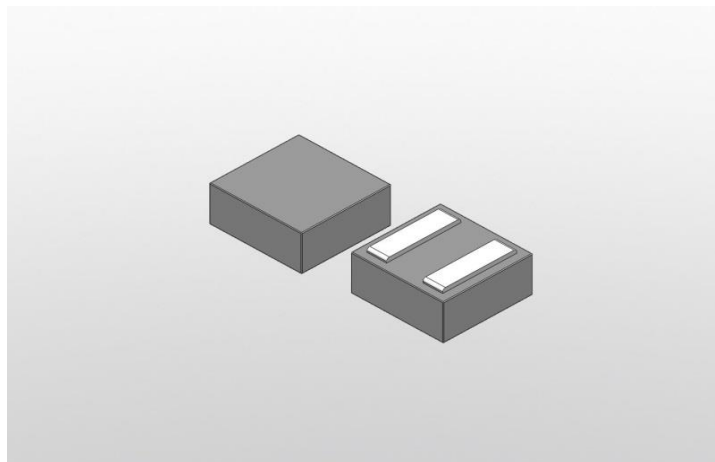


ABCO Standard Inductor

**AEC-Q200**

## POWER INDUCTOR LPMT6550-A90 SERIES



31, Dunchon-daero 388 Beon-gil  
Seongnam-si, Gyeonggi-do, KOREA  
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ABCO ELECTRONICS CO., LTD.

■ **OPERATION TEMP.**

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

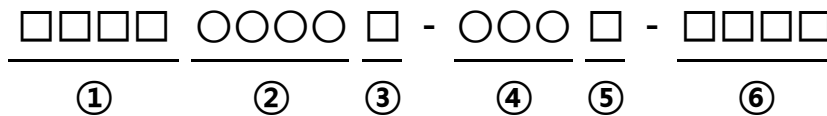
■ **FEATURES**

- 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) |             |
|-------------------|-------------|
| 6550              | 7.2X6.9X4.8 |

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

| ④Inductance Value |       |
|-------------------|-------|
| R10               | 0.1μH |
| 1R0               | 1.0μH |

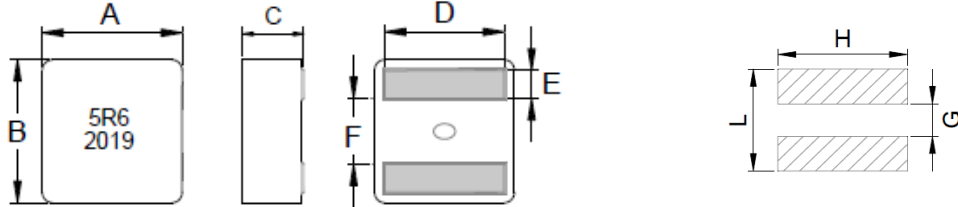
| ⑤Inductance Tol |      |
|-----------------|------|
| M               | ±20% |

| ⑥Internal Code |  |
|----------------|--|
| A90            |  |

**LPMT6550-A90 SERIES**

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

Unit:mm



| Series       | A(mm)     | B(mm)     | C(mm)     | D(mm)          | E(mm)     | F(mm)     |
|--------------|-----------|-----------|-----------|----------------|-----------|-----------|
| LPMT6550-A90 | 7.20±0.20 | 6.90±0.20 | 4.80±0.20 | See Spec.Table | 1.40±0.20 | 2.60±0.25 |

| L(mm) | G(mm) | H(mm) |
|-------|-------|-------|
| 5.60  | 2.50  | 5.60  |

■ **ELECTRICAL CHARACTERISTICS**

| Ordering code        | Inductance<br>[μH] | Tolerance<br>(%) | Freq.<br>(kHz) | Rdc(mΩ) |      | Isat(A) | Irms(A) | D(mm) |
|----------------------|--------------------|------------------|----------------|---------|------|---------|---------|-------|
|                      |                    |                  |                | Max.    | Typ. | Typ.    | Typ.    | ±0.3  |
| LPMT6550T - R82M-A90 | 0.82               | ± 20             | 100            | 4.18    | 3.80 | 24.0    | 21.0    | 5.3   |
| LPMT6550T - 1R0M-A90 | 1.00               | ± 20             |                | 4.52    | 4.10 | 23.0    | 20.0    | 5.3   |
| LPMT6550T - 1R2M-A90 | 1.20               | ± 20             |                | 5.83    | 5.30 | 22.0    | 18.0    | 5.3   |
| LPMT6550T - 1R5M-A90 | 1.50               | ± 20             |                | 6.30    | 5.70 | 19.5    | 17.0    | 5.3   |
| LPMT6550T - 1R8M-A90 | 1.80               | ± 20             |                | 7.10    | 6.40 | 18.5    | 16.0    | 5.3   |
| LPMT6550T - 2R2M-A90 | 2.20               | ± 20             |                | 8.50    | 7.70 | 16.0    | 13.0    | 5.2   |
| LPMT6550T - 3R3M-A90 | 3.30               | ± 20             |                | 12.5    | 11.2 | 12.5    | 11.0    | 5.2   |
| LPMT6550T - 4R3M-A90 | 4.30               | ± 20             |                | 16.2    | 15.1 | 11.0    | 9.0     | 5.2   |
| LPMT6550T - 4R7M-A90 | 4.70               | ± 20             |                | 18.4    | 16.7 | 10.5    | 8.5     | 5.2   |
| LPMT6550T - 5R6M-A90 | 5.60               | ± 20             |                | 22.0    | 20.0 | 10.0    | 7.0     | 5.2   |
| LPMT6550T - 6R8M-A90 | 6.80               | ± 20             |                | 25.4    | 23.1 | 9.0     | 6.6     | 5.2   |
| LPMT6550T - 8R2M-A90 | 8.20               | ± 20             |                | 31.5    | 28.6 | 8.0     | 6.2     | 5.2   |

▼ **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(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)