

# LPM6530 SERIES

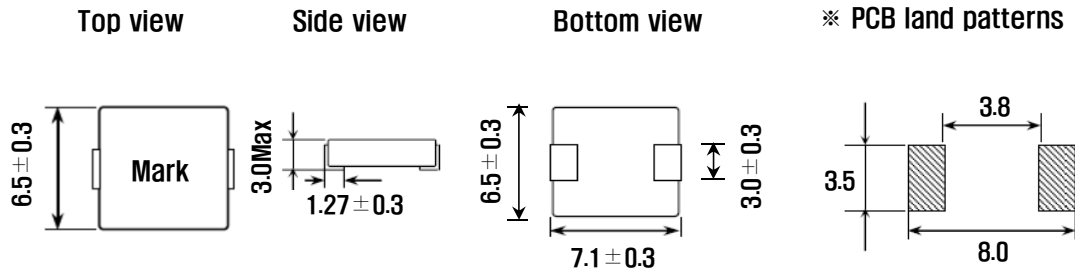


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## LPM6530 SERIES

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

Unit:mm



### ■ ELECTRICAL CHARACTERISTICS

| Ordering code   | Inductance<br>[μH] | Tolerance<br>(%) | Freq.<br>(kHz) | Rdc(mΩ) |       | Isat(A) |      | Irms(A) |
|-----------------|--------------------|------------------|----------------|---------|-------|---------|------|---------|
|                 |                    |                  |                | Max.    | Typ.  | Max.    | Typ. | Typ.    |
| LPM6530T - R47M | 0.47               | ± 20             | 100            | 4.2     | 3.62  | 18.8    | 19.5 | 13.1    |
| LPM6530T - 1R0M | 1.00               | ± 20             |                | 9.8     | 7.46  | 14.0    | 18.5 | 9.0     |
| LPM6530T - 1R5M | 1.50               | ± 20             |                | 14.5    | 11.8  | 13.0    | 15.4 | 8.0     |
| LPM6530T - 2R2M | 2.20               | ± 20             |                | 19.0    | 17.2  | 10.5    | 14.5 | 6.0     |
| LPM6530T - 3R3M | 3.30               | ± 20             |                | 30.0    | 27.5  | 10.0    | 12.0 | 5.0     |
| LPM6530T - 4R7M | 4.70               | ± 20             |                | 41.0    | 38.3  | 5.5     | 6.8  | 4.0     |
| LPM6530T - 6R8M | 6.80               | ± 20             |                | 65.0    | 55.6  | 4.2     | 5.9  | 3.5     |
| LPM6530T - 100M | 10.0               | ± 20             |                | 95.0    | 71.0  | 3.8     | 5.6  | 2.8     |
| LPM6530T - 150M | 15.0               | ± 20             |                | 145.0   | 129.0 | 3.5     | 4.9  | 2.0     |

#### ▼ Test Equipments

- Inductance measured : Agilent E4980A Precision LCR Meter or equivalent(100kHz, 0.5V)
- Rdc : HIOKI 3540 mΩ HiTESTER or equivalent
- Isat(The saturation current) :  $\Delta L \leq 20\%$  reduction from initial L value

Agilent 4284A LCR Meter + Agilent 42841A Bias Current Source  
+ 42842B Bias current test Fixture or equivalent

- Irms(The temperature rise):  $\Delta T = 40^\circ\text{C}$  typical at rated DC current

Agilent 6692A DC Power Supply + Yokogawa DR130 Hybrid Recorder  
or equivalent

※ Rated DC current(I<sub>dc</sub>) : The value of Isat or Irms , whichever is smaller

#### ▼ Operating Temperature Range

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