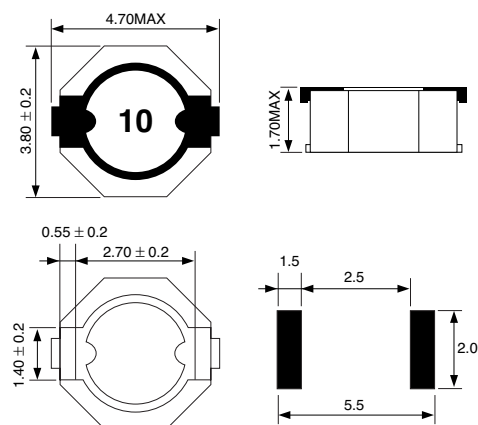


## LPF4017 SERIES

SMD Shielded type

### SHAPES & DIMENSIONS RECOMMENDED PCB PATTERN

(Dimensions in mm)



### ELECTRICAL CHARACTERISTICS

| Ordering Code | Inductance<br>(μH) | Inductance<br>TOL.(%) | Test<br>Freq.<br>(KHz) | DC Resistance<br>(mΩ)Max<br>( )is typical value. | Rated Current(A) |                | Marking |
|---------------|--------------------|-----------------------|------------------------|--------------------------------------------------|------------------|----------------|---------|
|               |                    |                       |                        |                                                  | IDC1<br>(Max.)   | IDC2<br>(Ref.) |         |
| LPF4017T-2R2N | 2.2                | ± 30                  | 100                    | 42(36)                                           | 1.00             | 2.10           | A       |
| LPF4017T-3R3N | 3.3                |                       |                        | 54(45)                                           | 0.92             | 1.90           | B       |
| LPF4017T-3R9N | 3.9                |                       |                        | 78(66)                                           | 0.80             | 1.70           | C       |
| LPF4017T-4R7N | 4.7                |                       |                        | 90(75)                                           | 0.76             | 1.50           | D       |
| LPF4017T-6R8N | 6.8                |                       |                        | 114(95)                                          | 0.62             | 1.30           | E       |
| LPF4017T-100M | 10                 | ± 20                  |                        | 156(131)                                         | 0.50             | 1.10           | 10      |
| LPF4017T-150M | 15                 |                       |                        | 240(200)                                         | 0.40             | 0.88           | 15      |
| LPF4017T-220M | 22                 |                       |                        | 348(290)                                         | 0.32             | 0.72           | 22      |
| LPF4017T-330M | 33                 |                       |                        | 504(420)                                         | 0.28             | 0.58           | 33      |
| LPF4017T-470M | 47                 |                       |                        | 744(620)                                         | 0.20             | 0.45           | 47      |

### TEST EQUIPMENTS

- Inductance: Agilent 4284A LCR Meter (100KHz 0.5V)
- Rdc: HIOKI 3540 mΩ HiTESTER
- Bias Current: Agilent 4284A + Agilent 42841A
- IDC1(The saturation current):  $\Delta L \leq 30\%$  at rated current
- IDC2(The temperature rise):  $\Delta T = 30^\circ\text{C}$  at rated current

### OPERATING TEMPERATURE RANGE

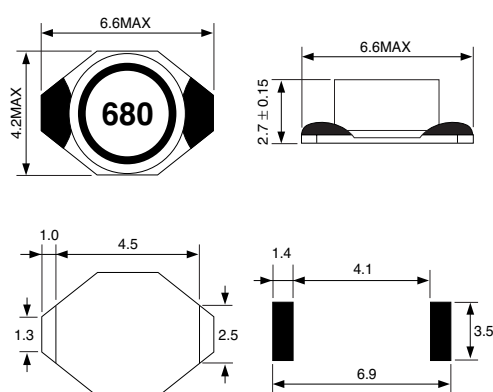
-20 ~ +85°C (Including self-generated heat)

## LPF4027 SERIES

SMD Shielded type

### SHAPES & DIMENSIONS RECOMMENDED PCB PATTERN

(Dimensions in mm)



### ELECTRICAL CHARACTERISTICS

| Ordering Code | Inductance (μH) | Inductance TOL.(%) | Test Freq. (KHz) | DC Resistance (Ω)Max | Rated Current(A) |
|---------------|-----------------|--------------------|------------------|----------------------|------------------|
| LPF4027T-1R5M | 1.5             | ± 20               | 100              | 0.045                | 2.80             |
| LPF4027T-2R2M | 2.2             |                    |                  | 0.050                | 1.80             |
| LPF4027T-3R3M | 3.3             |                    |                  | 0.055                | 1.60             |
| LPF4027T-4R7M | 4.7             |                    |                  | 0.060                | 1.40             |
| LPF4027T-6R8M | 6.8             |                    |                  | 0.065                | 1.20             |
| LPF4027T-100M | 10              |                    |                  | 0.075                | 1.00             |
| LPF4027T-150M | 15              |                    |                  | 0.090                | 0.80             |
| LPF4027T-220M | 22              |                    |                  | 0.11                 | 0.70             |
| LPF4027T-330M | 33              |                    |                  | 0.19                 | 0.60             |
| LPF4027T-470M | 47              |                    |                  | 0.23                 | 0.50             |
| LPF4027T-680M | 68              |                    |                  | 0.29                 | 0.40             |
| LPF4027T-101M | 100             | ± 20               | 100              | 0.48                 | 0.30             |
| LPF4027T-151M | 150             |                    |                  | 0.59                 | 0.26             |
| LPF4027T-221M | 220             |                    |                  | 0.77                 | 0.22             |
| LPF4027T-331M | 330             |                    |                  | 1.4                  | 0.20             |
| LPF4027T-471M | 470             |                    |                  | 1.8                  | 0.19             |
| LPF4027T-681M | 680             |                    |                  | 2.2                  | 0.18             |
| LPF4027T-102M | 1000            |                    |                  | 3.4                  | 0.15             |
| LPF4027T-152M | 1500            |                    |                  | 4.2                  | 0.12             |
| LPF4027T-222M | 2200            |                    |                  | 8.5                  | 0.10             |
| LPF4027T-332M | 3300            |                    |                  | 11.0                 | 0.08             |
| LPF4027T-472M | 4700            |                    |                  | 13.9                 | 0.06             |

### TEST EQUIPMENTS

- Inductance: Agilent 4284A LCR Meter (100KHz 0.5V)
- Rdc: HIOKI 3540 mΩ HiTESTER
- Bias Current: Agilent 4284A + Agilent 42841A
- Temperature rise 30°C at rated current

### OPERATING TEMPERATURE RANGE

-20 ~ +85°C (Including self-generated heat)