



### Features

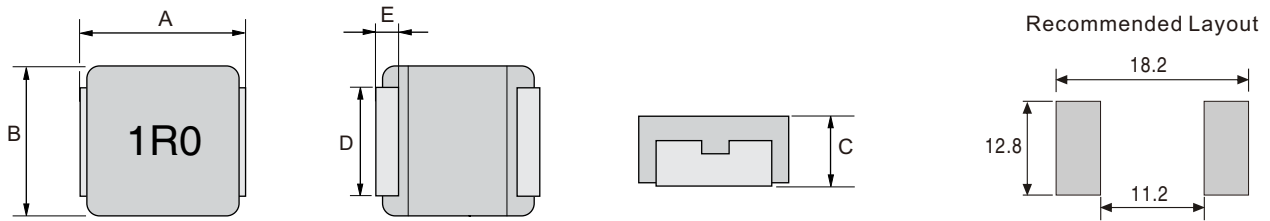
- Shielded Construction
- Core Material: Metal alloy powder
- Low core loss
- Ultra low buzz noise
- RoHS, Halogen Free and REACH compliance

### General Specifications

- Storage temp range: -55°C to +125°C
- Operating temp range: -55°C to +125°C
- Moisture Sensitivity Level(MSL): 1



## ▶ Shape and Dimensions (Unit:mm)



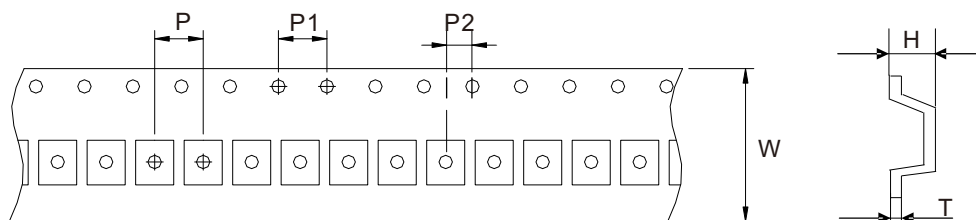
| Type   | A          | B        | C      | D        | E       |
|--------|------------|----------|--------|----------|---------|
| HI1770 | 17.15±0.35 | 17.15Max | 7.0Max | 12.0±0.3 | 2.5±0.5 |

## ▶ Electrical Characteristics For HI1770 Series @ 25°C

| Part Number | Inductance (μH)<br>±20% | DCR (mΩ)<br>Max. | Isat (A)<br>Typ. | Irms (A)<br>Typ. |
|-------------|-------------------------|------------------|------------------|------------------|
| HI1770-2R2M | 2.2                     | 2.5              | 34               | 29               |
| HI1770-3R3M | 3.3                     | 3.95             | 30               | 24               |
| HI1770-4R7M | 4.7                     | 4.75             | 24               | 21               |
| HI1770-6R8M | 6.8                     | 7.5              | 22               | 17               |
| HI1770-8R2M | 8.2                     | 8.7              | 20               | 13               |
| HI1770-100M | 10                      | 9.9              | 19               | 12               |
| HI1770-150M | 15                      | 17               | 14.5             | 11               |
| HI1770-220M | 22                      | 23               | 11.5             | 8.5              |
| HI1770-330M | 33                      | 37               | 10               | 8                |
| HI1770-470M | 47                      | 47               | 7.5              | 6                |
| HI1770-680M | 68                      | 85               | 6.5              | 5.2              |
| HI1770-101M | 100                     | 130              | 5                | 3.7              |

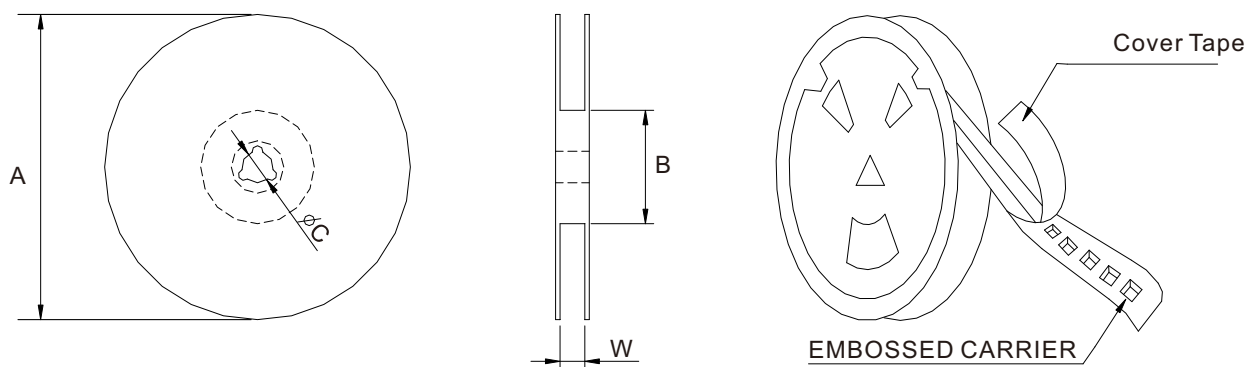
- Inductance tested at 100kHz, 1.0Vrms, 0.0Adc
- Heat Rating Current (Irms): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (Isat): DC current at which the inductance drops 30% from its value without current

## ▶ Tape & Reel Specifications:



Unit: mm

| Type   | Dimension | W    | P    | P1   | P2   | H     | T     |
|--------|-----------|------|------|------|------|-------|-------|
|        | Tolerance | ±0.3 | ±0.1 | ±0.1 | ±0.1 | ±0.15 | ±0.05 |
| HI1770 |           | 32.0 | 24.0 | 4.0  | 2.0  | 7.30  | 0.50  |



Unit: mm

| Type   | Dimension | QTY Per Reel | A    | B    | C    | W    |
|--------|-----------|--------------|------|------|------|------|
|        | Tolerance | PCS          | ±2.0 | ±0.5 | ±0.5 | ±0.5 |
| HI1770 |           | 200          | 330  | 97   | 13   | 32.8 |