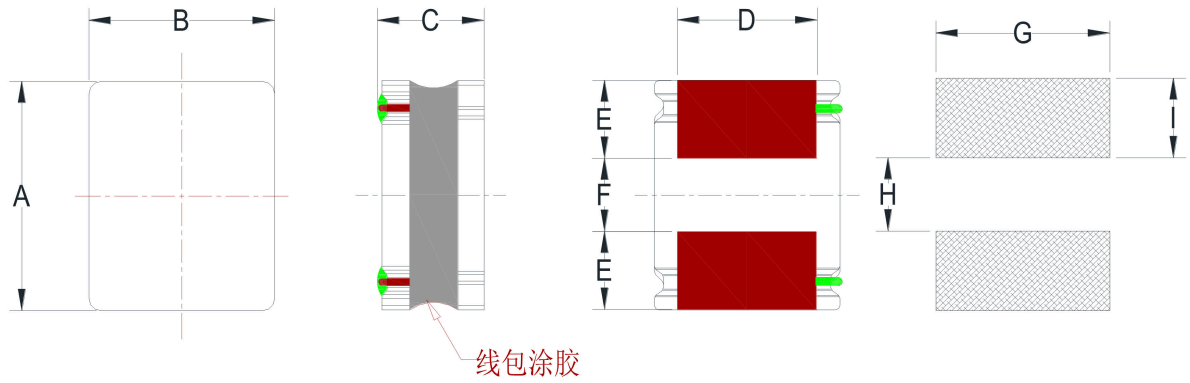
# Sealed Power Inductors – TCR Series

## 1. Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 2.5± 0.2 | 2.0 ± 0.2 | 1.2± 02 | 1.5±0.2 | 0.80±0.2 | 0.80±0.2 | 2.0 | 0.8 | 0.85 |

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR(mΩ) ±25% | Isat (A) | | Irise(A) | Test Condition |
|---|---|---|---|---|---|---|---|
| | | | | Max | Typ | | |
| TCR252012-R33N | 0.33 | 30 | 40 | 4.30 | 3.90 | 2.35 | 100KHz /0.25V |
| TCR252012-R68N | 0.68 | 30 | 73 | 2.70 | 3.10 | 1.73 | 100KHz /0.25V |
| TCR252012-1R0N | 1.0 | 30 | 85 | 2.68 | 3.00 | 1.58 | 100KHz /0.25V |
| TCR252012-1R5M | 1.5 | 20 | 113 | 2.24 | 2.51 | 1.40 | 100KHz /0.25V |
| TCR252012-2R2M | 2.2 | 20 | 165 | 1.85 | 2.07 | 1.15 | 100KHz /0.25V |
| TCR252012-3R3M | 3.3 | 20 | 200 | 1.61 | 1.80 | 1.04 | 100KHz /0.25V |
| TCR252012-4R7M | 4.7 | 20 | 315 | 1.18 | 1.32 | 0.84 | 100KHz /0.25V |
| TCR252012-5R6M | 5.6 | 20 | 330 | 1.10 | 1.26 | 0.73 | 100KHz /0.25V |
| TCR252012-6R8M | 6.8 | 20 | 447 | 0.98 | 1.10 | 0.69 | 100KHz /0.25V |
| TCR252012-8R2M | 8.2 | 20 | 506 | 0.98 | 1.10 | 0.65 | 100KHz /0.25V |
| TCR252012-100M | 10 | 20 | 575 | 0.88 | 0.97 | 0.62 | 100KHz/0.25V |
| TCR252012-150M | 15 | 20 | 900 | 0.62 | 0.68 | 0.40 | 100KHz/0.25V |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise (A)**

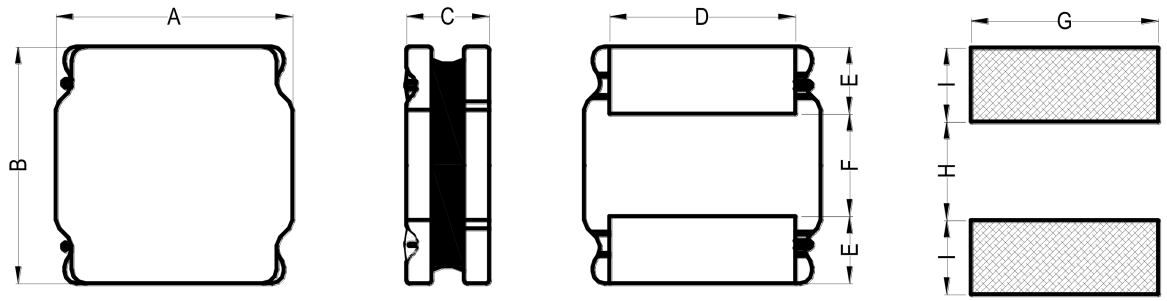
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise: HP4284A+42841

# Sealed Power Inductors – TCR Series

## 1. Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 3.0 ± 0.2 | 3.0± 0.2 | 1.5Max | 2.5±0.2 | 0.75±0.2 | 1.5±0.2 | 2.7 | 1.5 | 0.8 |

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR(mΩ) ±30% | Isat (A) | Irise (A) | Test Condition |
|---|---|---|---|---|---|---|
| TCR3015-R30N | 0.30 | 30 | 15 | 4.6 | 3.50 | 1MHz /0.25V |
| TCR3015-R47N | 0.47 | 30 | 20 | 4.00 | 3.50 | 100KHz /0.25V |
| TCR3015-1R0N | 1.0 | 30 | 37 | 2.32 | 2.10 | 100KHz /0.25V |
| TCR3015-1R5N | 1.5 | 30 | 50 | 2.00 | 1.70 | 100KHz /0.25V |
| TCR3015-1R8N | 1.8 | 30 | 55 | 1.75 | 1.65 | 100KHz /0.25V |
| TCR3015-2R2N | 2.2 | 30 | 60 | 1.60 | 1.60 | 100KHz /0.25V |
| TCR3015-2R7N | 2.7 | 30 | 70 | 1.52 | 1.50 | 100KHz /0.25V |
| TCR3015-3R3M | 3.3 | 20 | 80 | 1.32 | 1.36 | 100KHz /0.25V |
| TCR3015-4R7M | 4.7 | 20 | 125 | 1.10 | 1.09 | 100KHz /0.25V |
| TCR3015-5R6M | 5.6 | 20 | 170 | 1.05 | 1.00 | 100KHz /0.25V |
| TCR3015-6R8M | 6.8 | 20 | 200 | 0.85 | 0.85 | 100KHz /0.25V |
| TCR3015-100M | 10 | 20 | 250 | 0.72 | 0.77 | 100KHz /0.25V |
| TCR3015-150M | 15 | 20 | 350 | 0.66 | 0.65 | 100KHz /0.25V |
| TCR3015-180M | 18 | 20 | 430 | 0.56 | 0.59 | 100KHz /0.25V |
| TCR3015-220M | 22 | 20 | 460 | 0.52 | 0.57 | 100KHz /0.25V |
| TCR3015-330M | 33 | 20 | 780 | 0.44 | 0.42 | 100KHz /0.25V |
| TCR3015-470M | 47 | 20 | 1200 | 0.35 | 0.32 | 100KHz /0.25V |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

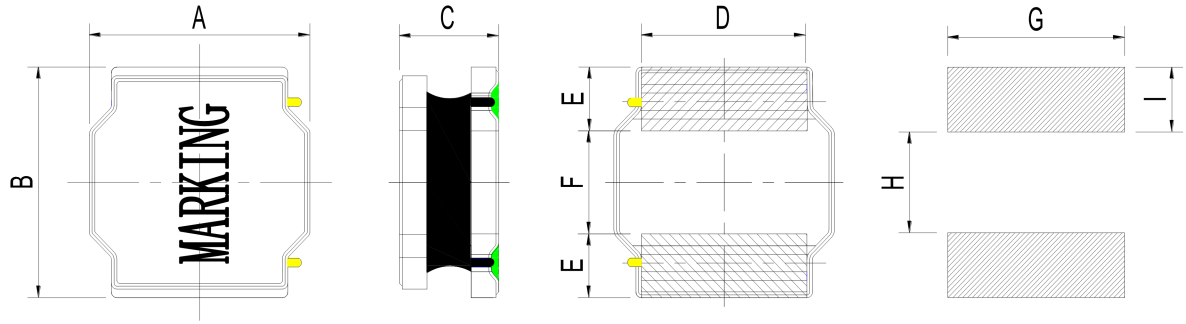
**Irise(A)**

DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284A+42841

## 1. Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 4.0 ± 0.2 | 4.0 ± 0.2 | 1.65Max | 3.3±0.2 | 0.95±0.2 | 2.1 Ref | 3.7 Ref | 1.9 Ref | 1.1 Ref |

注：喷码尺寸长 2.5±0.5mm，宽 2.0±0.5mm

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR4015-1R0N | 1.0 | 30 | 35 | 3.30 | 2.50 | 100KHz /0.25V | 1R0 |
| TCR4015-1R5N | 1.5 | 30 | 40 | 2.70 | 2.20 | 100KHz /0.25V | 1R5 |
| TCR4015-2R2M | 2.2 | 20 | 53 | 2.10 | 2.00 | 100KHz /0.25V | 2R2 |
| TCR4015-3R3M | 3.3 | 20 | 75 | 1.90 | 1.80 | 100KHz /0.25V | 3R3 |
| TCR4015-4R7M | 4.7 | 20 | 100 | 1.45 | 1.35 | 100KHz /0.25V | 4R7 |
| TCR4015-6R8M | 6.8 | 20 | 135 | 1.30 | 1.20 | 100KHz /0.25V | 6R8 |
| TCR4015-100M | 10 | 20 | 200 | 1.10 | 1.00 | 100KHz /0.25V | 100 |
| TCR4015-150M | 15 | 20 | 300 | 0.90 | 0.85 | 100KHz /0.25V | 150 |
| TCR4015-220M | 22 | 20 | 400 | 0.72 | 0.68 | 100KHz/0.25V | 220 |
| TCR4015-470M | 47 | 20 | 975 | 0.55 | 0.45 | 100KHz/0.25V | 470 |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

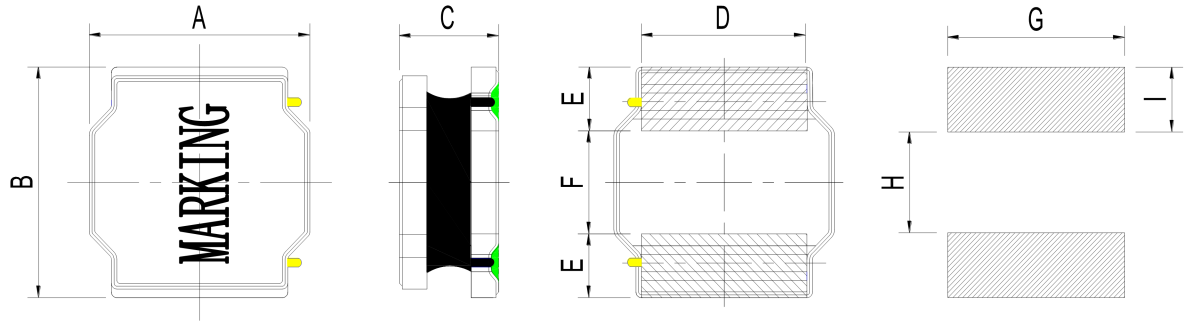
**Irise(A)**

DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50　　DCR:HIOKI 3540　　Isat / Irise:HP4284+42841A

## 1. Shape and Dimension ( Unit:mm )




注：喷码尺寸长 2.5±0.5mm，宽 2.0±0.5mm

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 4.0 ± 0.2 | 4.0 ± 0.2 | 1.85Max | 3.3±0.2 | 0.95±0.2 | 2.1 Ref | 3.7 Ref | 1.9 Ref | 1.1 Ref |

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR4018-R56N | 0.56 | 30 | 18 | 6.5 | 3.5 | 100KHz /0.25V | R56 |
| TCR4018-1R0N | 1.0 | 30 | 23 | 4.5 | 2.50 | 100KHz /0.25V | 1R0 |
| TCR4018-1R2N | 1.2 | 30 | 28 | 4.3 | 2.40 | 100KHz /0.25V | 1R2 |
| TCR4018-1R5N | 1.5 | 30 | 33 | 3.35 | 2.34 | 100KHz /0.25V | 1R5 |
| TCR4018-2R2M | 2.2 | 20 | 44 | 2.70 | 2.00 | 100KHz /0.25V | 2R2 |
| TCR4018-3R3M | 3.3 | 20 | 70 | 2.45 | 1.90 | 100KHz /0.25V | 3R3 |
| TCR4018-4R7M | 4.7 | 20 | 90 | 1.70 | 1.70 | 100KHz /0.25V | 4R7 |
| TCR4018-5R6M | 5.6 | 20 | 103 | 1.60 | 1.50 | 100KHz /0.25V | 5R6 |
| TCR4018-6R8M | 6.8 | 20 | 124 | 1.45 | 1.30 | 100KHz /0.25V | 6R8 |
| TCR4018-8R2M | 8.2 | 20 | 180 | 1.40 | 1.15 | 100KHz /0.25V | 8R2 |
| TCR4018-100M | 10 | 20 | 200 | 1.30 | 1.10 | 100KHz /0.25V | 100 |
| TCR4018-120M | 12 | 20 | 230 | 1.15 | 0.95 | 100KHz /0.25V | 120 |
| TCR4018-150M | 15 | 20 | 268 | 0.94 | 0.92 | 100KHz /0.25V | 150 |
| TCR4018-220M | 22 | 20 | 390 | 0.80 | 0.80 | 100KHz /0.25V | 220 |
| TCR4018-330M | 33 | 20 | 560 | 0.65 | 0.60 | 100KHz /0.25V | 330 |
| TCR4018-470M | 47 | 20 | 850 | 0.57 | 0.50 | 100KHz /0.25V | 470 |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

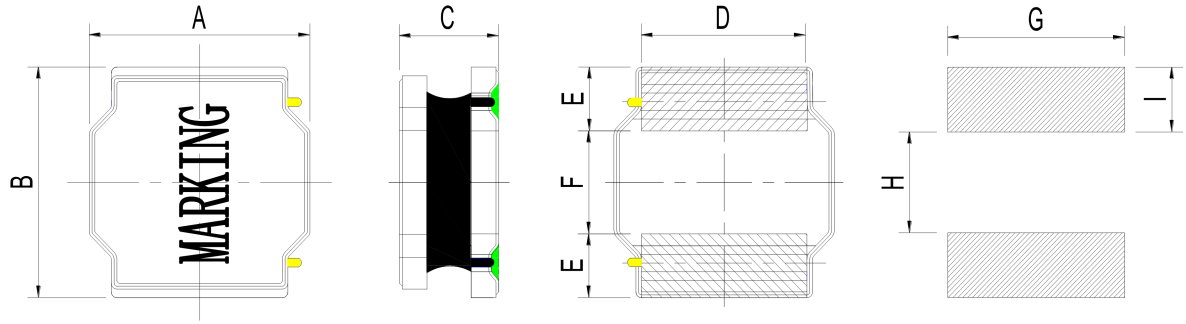
**Irise((A)**

DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284A+42841

## 1. Shape and Dimension ( Unit:mm )




注：喷码尺寸长 2.5±0.5mm，宽 2.0±0.5mm

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 4.0 ± 0.2 | 4.0 ± 0.2 | 2.1Max | 3.3±0.2 | 0.95±0.2 | 2.1 Ref | 3.7 Ref | 1.9 Ref | 1.1 Ref |

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR4020-1R0N | 1.0 | 30 | 28 | 5.10 | 2.15 | 100KHz /0.25V | 1R0 |
| TCR4020-1R2N | 1.2 | 30 | 29 | 4.70 | 2.10 | 100KHz /0.25V | 1R2 |
| TCR4020-1R5N | 1.5 | 30 | 35 | 4.45 | 1.98 | 100KHz /0.25V | 1R5 |
| TCR4020-2R2M | 2.2 | 20 | 40 | 3.40 | 1.85 | 100KHz /0.25V | 2R2 |
| TCR4020-3R3M | 3.3 | 20 | 70 | 3.20 | 1.40 | 100KHz /0.25V | 3R3 |
| TCR4020-4R7M | 4.7 | 20 | 80 | 2.35 | 1.34 | 100KHz /0.25V | 4R7 |
| TCR4020-5R6M | 5.6 | 20 | 95 | 2.20 | 1.22 | 100KHz /0.25V | 5R6 |
| TCR4020-6R8M | 6.8 | 20 | 125 | 2.00 | 1.04 | 100KHz /0.25V | 6R8 |
| TCR4020-8R2M | 8.2 | 20 | 150 | 1.75 | 1.00 | 100KHz /0.25V | 8R2 |
| TCR4020-100M | 10 | 20 | 165 | 1.60 | 0.90 | 100KHz /0.25V | 100 |
| TCR4020-120M | 12 | 20 | 175 | 1.50 | 0.88 | 100KHz /0.25V | 120 |
| TCR4020-150M | 15 | 20 | 230 | 1.35 | 0.77 | 100KHz /0.25V | 150 |
| TCR4020-220M | 22 | 20 | 350 | 1.05 | 0.62 | 100KHz /0.25V | 220 |
| TCR4020-330M | 33 | 20 | 500 | 0.85 | 0.49 | 100KHz /0.25V | 330 |
| TCR4020-470M | 47 | 20 | 710 | 0.74 | 0.44 | 100KHz /0.25V | 470 |
| TCR4020-560M | 56 | 20 | 800 | 0.68 | 0.40 | 100KHz /0.25V | 560 |
| TCR4020-680M | 68 | 20 | 1250 | 0.60 | 0.35 | 100KHz /0.25V | 680 |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise((A)**

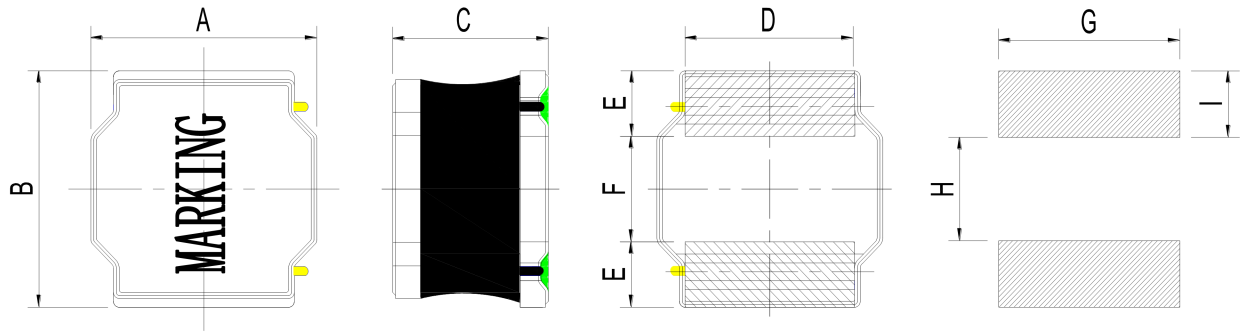
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284+42841A

# Sealed Power Inductors – TCR Series

## 1. Shape and Dimension ( Unit:mm )




注：喷码尺寸长 2.5±0.5mm，宽 2.0±0.5mm

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 4.0 ± 0.3 | 4.0 ± 0.3 | 3.0Max | 3.3±0.2 | 0.95±0.2 | 2.1 Ref | 3.7 Ref | 1.9 Ref | 1.1 Ref |

## 2.Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR4030-R47N | 0.47 | 30 | 11 | 7.50 | 3.50 | 100kHz /0.25V | R47 |
| TCR4030-1R0N | 1.0 | 30 | 15 | 5.90 | 3.40 | 100kHz /0.25V | 1R0 |
| TCR4030-1R5N | 1.5 | 30 | 25 | 4.85 | 3.30 | 100kHz /0.25V | 1R5 |
| TCR4030-1R8N | 1.8 | 30 | 30 | 4.25 | 3.20 | 100kHz /0.25V | 1R8 |
| TCR4030-2R2M | 2.2 | 20 | 35 | 4.10 | 2.95 | 100kHz /0.25V | 2R2 |
| TCR4030-3R3M | 3.3 | 20 | 40 | 3.30 | 2.40 | 100kHz /0.25V | 3R3 |
| TCR4030-3R9M | 3.9 | 20 | 57 | 3.00 | 2.10 | 100kHz /0.25V | 3R9 |
| TCR4030-4R7M | 4.7 | 20 | 60 | 2.90 | 2.00 | 100kHz /0.25V | 4R7 |
| TCR4030-5R6M | 5.6 | 20 | 70 | 2.75 | 1.95 | 100kHz /0.25V | 5R6 |
| TCR4030-6R8M | 6.8 | 20 | 75 | 2.60 | 1.70 | 100kHz /0.25V | 6R8 |
| TCR4030-7R5M | 7.5 | 20 | 90 | 2.20 | 1.65 | 100kHz /0.25V | 7R5 |
| TCR4030-8R2M | 8.2 | 20 | 100 | 2.10 | 1.60 | 100kHz /0.25V | 8R2 |
| TCR4030-100M | 10 | 20 | 115 | 1.95 | 1.50 | 100kHz /0.25V | 100 |
| TCR4030-120M | 12 | 20 | 140 | 1.70 | 1.35 | 100kHz /0.25V | 120 |
| TCR4030-150M | 15 | 20 | 190 | 1.65 | 1.15 | 100kHz /0.25V | 150 |
| TCR4030-180M | 18 | 20 | 215 | 1.40 | 1.10 | 100kHz /0.25V | 180 |
| TCR4030-220M | 22 | 20 | 225 | 1.30 | 1.00 | 100kHz /0.25V | 220 |
| TCR4030-330M | 33 | 20 | 330 | 1.10 | 0.84 | 100kHz /0.25V | 330 |
| TCR4030-470M | 47 | 20 | 500 | 0.90 | 0.72 | 100kHz /0.25V | 470 |
| TCR4030-560M | 56 | 20 | 560 | 0.85 | 0.65 | 100kHz /0.25V | 560 |
| TCR4030-680M | 68 | 20 | 750 | 0.75 | 0.55 | 100kHz /0.25V | 680 |
| TCR4030-820M | 82 | 20 | 950 | 0.68 | 0.50 | 100kHz /0.25V | 820 |
| TCR4030-101M | 100 | 20 | 1150 | 0.60 | 0.45 | 100kHz /0.25V | 101 |
| TCR4030-151M | 150 | 20 | 2350 | 0.50 | 0.35 | 100kHz /0.25V | 151 |

**Isat (A) :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

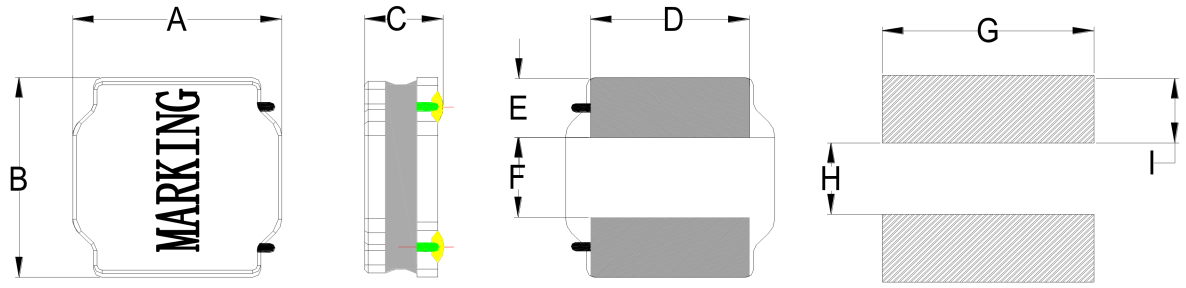
**Irise((A)**

DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 I sat / Irise:HP4284+42841A

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 5.0 ± 0.2 | 5.0 ± 0.2 | 1.5Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2 | 4. 2 | 2.3 | 1.4 |

注：喷码尺寸：长 3.2±0.4mm,宽 2.2±0.4mm

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR(mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR5015-1R0N | 1.0 | 30 | 35 | 4.50 | 2.80 | 100KHz /0.25V | 1R0 |
| TCR5015-1R5N | 1.5 | 30 | 50 | 3.50 | 2.50 | 100KHz /0.25V | 1R5 |
| TCR5015-2R2N | 2.2 | 30 | 65 | 3.00 | 2.20 | 100KHz /0.25V | 2R2 |
| TCR5015-3R3N | 3.3 | 30 | 80 | 2.50 | 1.90 | 100KHz /0.25V | 3R3 |
| TCR5015-4R7N | 4.7 | 30 | 100 | 2.10 | 1.60 | 100KHz /0.25V | 4R7 |
| TCR5015-6R8M | 6.8 | 20 | 150 | 1.65 | 1.40 | 100KHz /0.25V | 6R8 |
| TCR5015-100M | 10 | 20 | 200 | 1.45 | 1.20 | 100KHz /0.25V | 100 |
| TCR5015-150M | 15 | 20 | 320 | 1.20 | 0.85 | 100KHz /0.25V | 150 |
| TCR5015-220M | 22 | 20 | 450 | 1.10 | 0.75 | 100KHz /0.25V | 220 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

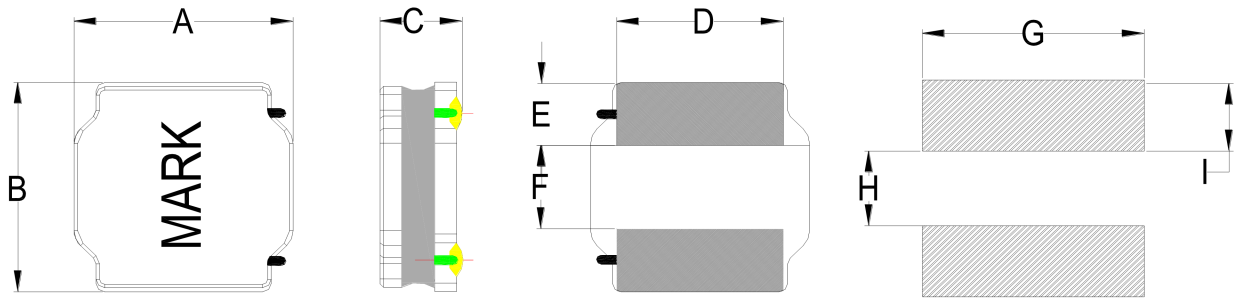
**Irise :**

DC Current that will cause an approximate ΔT of 40℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284A +42841

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 5.0 ± 0.2 | 5.0 ± 0.2 | 2.2Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2 | 4. 2 | 2.3 | 1.4 |

注：喷码尺寸：长 3.2±0.4mm,宽 2.2±0.4mm

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR5020-R22N | 0.22 | 30 | 11 | 6.00 | 5.00 | 100KHz /0.25V | R22 |
| TCR5020-R24N | 0.24 | 30 | 11 | 6.00 | 5.00 | 100KHz /0.25V | R24 |
| TCR5020-R47N | 0.47 | 30 | 15 | 4.85 | 3.95 | 100KHz /0.25V | R47 |
| TCR5020-1R0N | 1.0 | 30 | 20 | 4.33 | 3.70 | 100KHz /0.25V | 1R0 |
| TCR5020-1R2N | 1.2 | 30 | 25 | 4.20 | 3.50 | 100KHz /0.25V | 1R2 |
| TCR5020-1R5N | 1.5 | 30 | 26 | 4.10 | 3.20 | 100KHz /0.25V | 1R5 |
| TCR5020-1R8N | 1.8 | 30 | 30 | 4.00 | 3.00 | 100KHz /0.25V | 1R8 |
| TCR5020-2R2N | 2.2 | 30 | 38 | 3.85 | 2.90 | 100KHz /0.25V | 2R2 |
| TCR5020-2R7N | 2.7 | 30 | 45 | 3.50 | 2.40 | 100KHz /0.25V | 2R7 |
| TCR5020-3R3N | 3.3 | 30 | 46 | 3.25 | 2.40 | 100KHz /0.25V | 3R3 |
| TCR5020-3R9N | 3.9 | 30 | 50 | 2.90 | 2.15 | 100KHz /0.25V | 3R9 |
| TCR5020-4R7M | 4.7 | 20 | 65 | 2.40 | 2.05 | 100KHz /0.25V | 4R7 |
| TCR5020-5R6M | 5.6 | 20 | 72 | 2.30 | 1.85 | 100KHz /0.25V | 5R6 |
| TCR5020-6R8M | 6.8 | 20 | 92 | 2.10 | 1.70 | 100KHz /0.25V | 6R8 |
| TCR5020-8R2M | 8.2 | 20 | 100 | 1.90 | 1.60 | 100KHz /0.25V | 8R2 |
| TCR5020-100M | 10 | 20 | 125 | 1.80 | 1.50 | 100KHz /0.25V | 100 |
| TCR5020-150M | 15 | 20 | 180 | 1.44 | 1.25 | 100KHz /0.25V | 150 |
| TCR5020-220M | 22 | 20 | 250 | 1.18 | 1.05 | 100KHz /0.25V | 220 |
| TCR5020-330M | 33 | 20 | 370 | 0.97 | 0.83 | 100KHz /0.25V | 330 |
| TCR5020-470M | 47 | 20 | 560 | 0.81 | 0.70 | 100KHz /0.25V | 470 |
| TCR5020-680M | 68 | 20 | 850 | 0.70 | 0.53 | 100KHz /0.25V | 680 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**

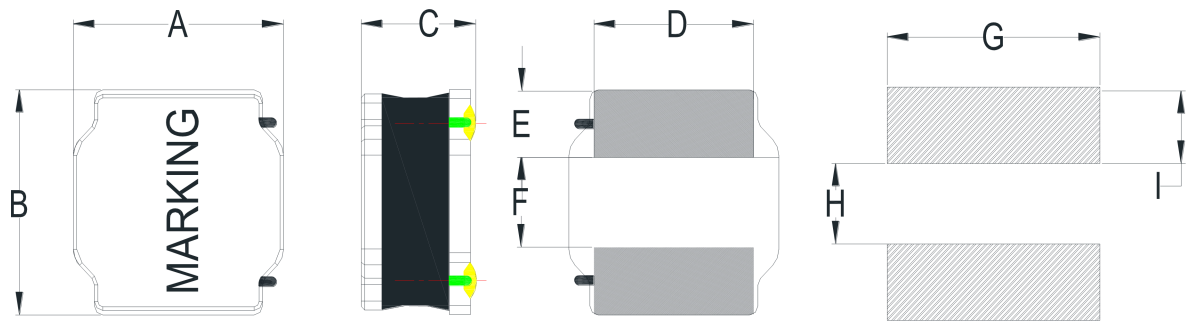
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284A+42841

# Sealed Power Inductors – TCR Series

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 5.0 ± 0.2 | 5.0 ± 0.2 | 3.0Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2 | 4. 2 | 2.3 | 1.4 |

注：喷码尺寸：长 3.2±0.4mm,宽 2.2±0.4mm

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR5030-R47N | 0.47 | 30 | 10 | 9.00 | 5.00 | 100KHz /0.25V | R47 |
| TCR5030-1R0N | 1.0 | 30 | 15 | 6.65 | 4.00 | 100KHz /0.25V | 1R0 |
| TCR5030-1R5N | 1.5 | 30 | 16 | 6.0 | 3.90 | 100KHz /0.25V | 1R5 |
| TCR5030-2R2M | 2.2 | 20 | 23 | 4.20 | 3.50 | 100KHz /0.25V | 2R2 |
| TCR5030-3R3M | 3.3 | 20 | 30 | 3.60 | 3.00 | 100KHz /0.25V | 3R3 |
| TCR5030-4R7M | 4.7 | 20 | 35 | 3.10 | 2.60 | 100KHz /0.25V | 4R7 |
| TCR5030-6R8M | 6.8 | 20 | 52 | 2.50 | 2.30 | 100KHz /0.25V | 6R8 |
| TCR5030-100M | 10 | 20 | 70 | 2.10 | 1.70 | 100KHz /0.25V | 100 |
| TCR5030-150M | 15 | 20 | 125 | 1.60 | 1.40 | 100KHz /0.25V | 150 |
| TCR5030-220M | 22 | 20 | 180 | 1.40 | 1.05 | 100KHz /0.25V | 220 |
| TCR5030-270M | 27 | 20 | 190 | 1.30 | 0.90 | 100KHz /0.25V | 270 |
| TCR5030-330M | 33 | 20 | 225 | 1.15 | 0.80 | 100KHz /0.25V | 330 |
| TCR5030-470M | 47 | 20 | 325 | 0.95 | 0.70 | 100KHz /0.25V | 470 |
| TCR5030-560M | 56 | 30 | 420 | 0.89 | 0.63 | 100KHz /0.25V | 560 |
| TCR5030-680M | 68 | 20 | 475 | 0.85 | 0.68 | 100KHz /0.25V | 680 |
| TCR5030-101M | 101 | 20 | 720 | 0.71 | 0.65 | 100KHz /0.25V | 101 |
| TCR5030-151M | 151 | 20 | 1050 | 0.60 | 0.55 | 100KHz /0.25V | 151 |
| TCR5030-221M | 220 | 20 | 1300 | 0.55 | 0.45 | 100KHz /0.25V | 221 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**

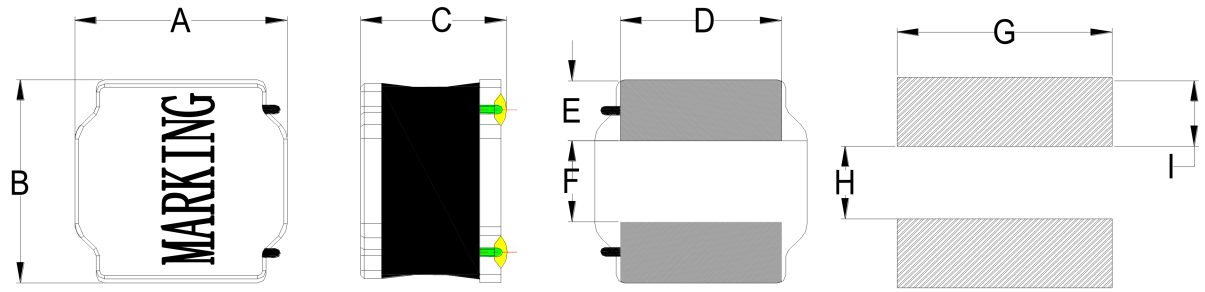
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284+42841A

# Sealed Power Inductors – TCR Series

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 5.0 ± 0.2 | 5.0 ± 0.2 | 4.0Max | 4.0±0.2 | 1.25±0.2 | 2.5±0.2 | 4. 2 | 2.3 | 1.4 |

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR5040-1R0N | 1.0 | 30 | 13 | 7.35 | 4.90 | 100KHz /0.25V | 1R0 |
| TCR5040-1R5N | 1.5 | 30 | 15 | 6.30 | 4.30 | 100KHz /0.25V | 1R5 |
| TCR5040-1R8N | 1.8 | 30 | 18 | 6.10 | 3.90 | 100KHz /0.25V | 1R8 |
| TCR5040-2R2N | 2.2 | 30 | 19 | 4.90 | 3.80 | 100KHz /0.25V | 2R2 |
| TCR5040-2R7N | 2.7 | 30 | 22 | 4.30 | 3.60 | 100KHz /0.25V | 2R7 |
| TCR5040-3R3N | 3.3 | 30 | 24 | 3.95 | 3.40 | 100KHz /0.25V | 3R3 |
| TCR5040-3R9N | 3.9 | 30 | 27 | 3.55 | 3.20 | 100KHz /0.25V | 3R9 |
| TCR5040-4R7N | 4.7 | 30 | 30 | 3.50 | 3.00 | 100KHz /0.25V | 4R7 |
| TCR5040-5R6M | 5.6 | 20 | 33 | 3.20 | 2.80 | 100KHz /0.25V | 5R6 |
| TCR5040-6R8M | 6.8 | 20 | 43 | 2.90 | 2.50 | 100KHz /0.25V | 6R8 |
| TCR5040-8R2M | 8R2 | 20 | 55 | 3.00 | 2.30 | 100KHz /0.25V | 8R2 |
| TCR5040-100M | 10 | 20 | 64 | 2.35 | 2.10 | 100KHz /0.25V | 100 |
| TCR5040-150M | 15 | 20 | 86 | 2.00 | 2.00 | 100KHz /0.25V | 150 |
| TCR5040-220M | 22 | 20 | 129 | 1.60 | 1.50 | 100KHz /0.25V | 220 |
| TCR5040-270M | 27 | 20 | 165 | 1.50 | 1.30 | 100KHz /0.25V | 270 |
| TCR5040-330M | 33 | 20 | 188 | 1.30 | 1.20 | 100KHz /0.25V | 330 |
| TCR5040-470M | 47 | 20 | 270 | 1.10 | 1.00 | 100KHz /0.25V | 470 |
| TCR5040-680M | 68 | 20 | 400 | 0.90 | 0.80 | 100KHz /0.25V | 680 |
| TCR5040-101M | 100 | 20 | 560 | 0.75 | 0.70 | 100KHz /0.25V | 101 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

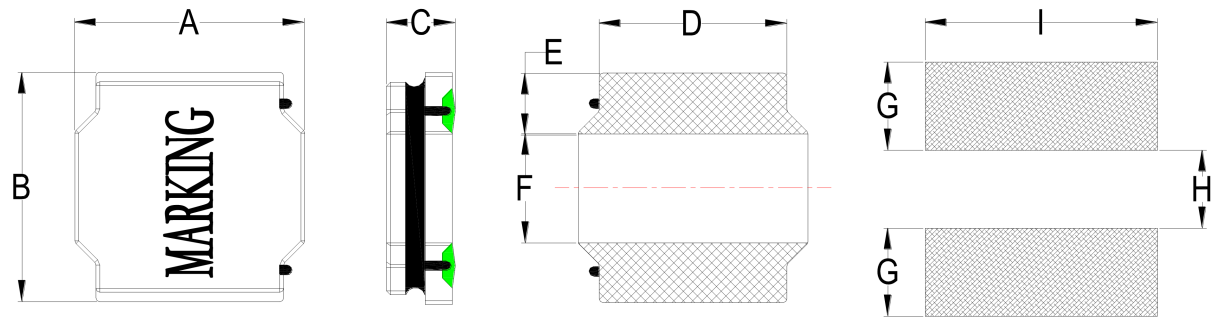
**Irise :**

DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise:HP4284+42841A

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 6.0 ± 0.3 | 6.0 ± 0.3 | 2.0Max | 4.9±0.3 | 1.55±0.3 | 2.9±0.3 | 1.7 | 2.8 | 5.7 |

注：喷码尺寸长 3.5±0.5mm，宽 2.8±0.5mm

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR6020-R68N | 0.68 | 30 | 15 | 7.50 | 3.80 | 100KHz /0.25V | R68 |
| TCR6020-1R0N | 1.0 | 30 | 20 | 4.80 | 3.50 | 100KHz /0.25V | 1R0 |
| TCR6020-1R2N | 1.2 | 30 | 20 | 4.30 | 3.50 | 100KHz /0.25V | 1R2 |
| TCR6020-1R5N | 1.5 | 30 | 25 | 4.30 | 3.20 | 100KHz /0.25V | 1R5 |
| TCR6020-2R2N | 2.2 | 30 | 35 | 3.75 | 2.75 | 100KHz /0.25V | 2R2 |
| TCR6020-3R3N | 3.3 | 30 | 45 | 3.15 | 2.60 | 100KHz /0.25V | 3R3 |
| TCR6020-4R7N | 4.7 | 30 | 58 | 3.00 | 2.00 | 100KHz /0.25V | 4R7 |
| TCR6020-5R6M | 5.6 | 20 | 70 | 2.40 | 1.90 | 100KHz /0.25V | 5R6 |
| TCR6020-6R8M | 6.8 | 20 | 85 | 2.20 | 1.80 | 100KHz /0.25V | 6R8 |
| TCR6020-100M | 10 | 20 | 120 | 1.75 | 1.40 | 100KHz /0.25V | 100 |
| TCR6020-150M | 15 | 20 | 160 | 1.50 | 1.20 | 100KHz /0.25V | 150 |
| TCR6020-220M | 22 | 20 | 240 | 1.25 | 1.00 | 100KHz /0.25V | 220 |
| TCR6020-270M | 27 | 20 | 350 | 1.15 | 0.95 | 100KHz /0.25V | 270 |
| TCR6020-330M | 33 | 20 | 400 | 1.10 | 0.90 | 100KHz /0.25V | 330 |
| TCR6020-470M | 47 | 20 | 500 | 1.00 | 0.80 | 100KHz /0.25V | 470 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**

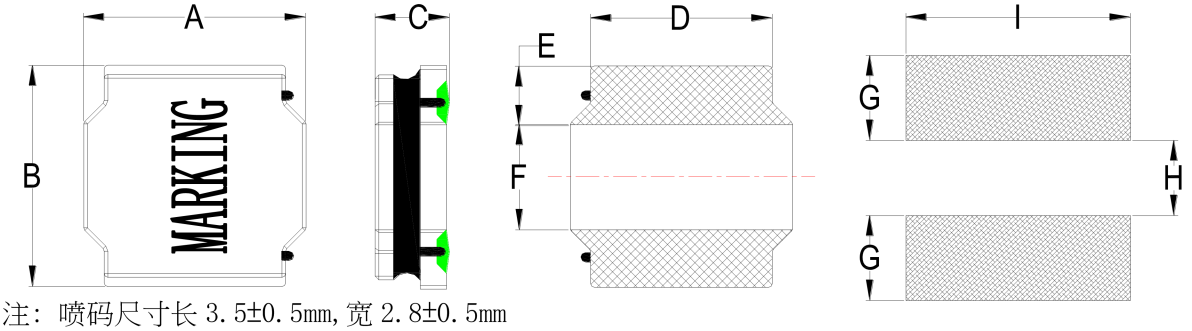
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50　　DCR:HIOKI 3540　　Isat / Irise: HP4284+42841A

# Sealed Power Inductors – TCR Series

## 1.Shape and Dimension ( Unit:mm )




注：喷码尺寸长 3.5±0.5mm，宽 2.8±0.5mm

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 6.0 ± 0.3 | 6.0 ± 0.3 | 2.8Max | 4.9±0.3 | 1.7±0.3 | 2.9±0.3 | 1.7 | 2.8 | 5.7 |

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR (mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR6028-1R0N | 1.0 | 30 | 12 | 6.70 | 4.60 | 100KHz /0.25V | 1R0 |
| TCR6028-1R5N | 1.5 | 30 | 16 | 6.00 | 4.30 | 100KHz /0.25V | 1R5 |
| TCR6028-2R2N | 2.2 | 30 | 20 | 5.10 | 3.75 | 100KHz /0.25V | 2R2 |
| TCR6028-3R3N | 3.3 | 30 | 25 | 3.63 | 3.40 | 100KHz /0.25V | 3R3 |
| TCR6028-4R7N | 4.7 | 30 | 33 | 3.00 | 3.00 | 100KHz /0.25V | 4R7 |
| TCR6028-5R6N | 5.6 | 30 | 45 | 2.80 | 2.45 | 100KHz /0.25V | 5R6 |
| TCR6028-6R8M | 6.8 | 20 | 56 | 2.60 | 2.40 | 100KHz /0.25V | 6R8 |
| TCR6028-8R2M | 8.2 | 20 | 68 | 2.40 | 2.25 | 100KHz /0.25V | 8R2 |
| TCR6028-100M | 10 | 20 | 78 | 2.05 | 1.90 | 100KHz /0.25V | 100 |
| TCR6028-120M | 12 | 20 | 88 | 1.80 | 1.70 | 100KHz /0.25V | 120 |
| TCR6028-150M | 15 | 20 | 125 | 1.75 | 1.50 | 100KHz /0.25V | 150 |
| TCR6028-180M | 18 | 20 | 130 | 1.55 | 1.45 | 100KHz /0.25V | 180 |
| TCR6028-220M | 22 | 20 | 140 | 1.45 | 1.40 | 100KHz /0.25V | 220 |
| TCR6028-270M | 27 | 20 | 180 | 1.40 | 1.30 | 100KHz /0.25V | 270 |
| TCR6028-330M | 33 | 20 | 220 | 1.35 | 1.10 | 100KHz /0.25V | 330 |
| TCR6028-390M | 39 | 20 | 225 | 1.25 | 1.10 | 100KHz /0.25V | 390 |
| TCR6028-470M | 47 | 20 | 280 | 1.15 | 1.05 | 100KHz /0.25V | 470 |
| TCR6028-680M | 68 | 20 | 420 | 0.95 | 0.85 | 100KHz /0.25V | 680 |
| TCR6028-820M | 82 | 20 | 550 | 0.80 | 0.70 | 100KHz /0.25V | 820 |
| TCR6028-101M | 100 | 20 | 670 | 0.65 | 0.60 | 100KHz /0.25V | 101 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**

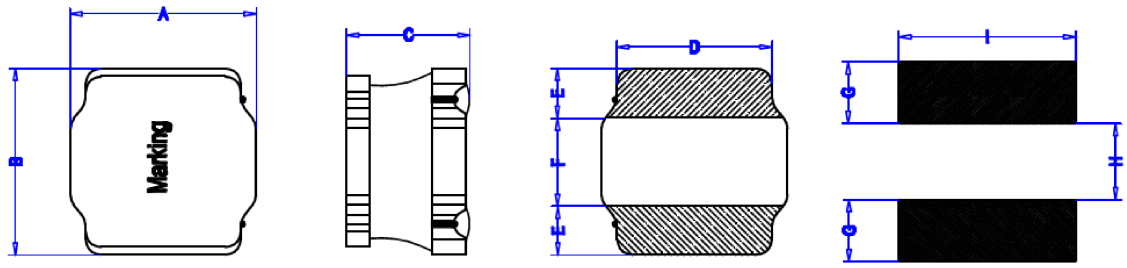
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise: HP4284+42841A

# Sealed Power Inductors – TCR Series

## 1.Shape and Dimension ( Unit:mm )




| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 6.0 ± 0.3 | 6.0 ± 0.3 | 4.5 Max | 4.9±0.3 | 1.55±0.3 | 2.9±0.3 | 1.7 Ref | 2.8 Ref | 5.7 Ref |

注：喷码尺寸长 3.5±0.5mm, 宽 2.8±0.5mm

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR(mΩ) ± 30% | Isat (A) | Irise (A) | Test Condition | MARKING |
|---|---|---|---|---|---|---|---|
| TCR6045-1R0N | 1.0 | 30 | 10 | 9.00 | 5.10 | 100KHz /0.25V | 1R0 |
| TCR6045-1R5N | 1.5 | 30 | 12 | 7.50 | 4.75 | 100KHz /0.25V | 1R5 |
| TCR6045-1R8N | 1.8 | 30 | 13 | 7.50 | 4.60 | 100KHz /0.25V | 1R8 |
| TCR6045-2R2N | 2.2 | 30 | 13 | 6.50 | 4.60 | 100KHz /0.25V | 2R2 |
| TCR6045-3R3N | 3.3 | 30 | 20 | 5.30 | 3.20 | 100KHz /0.25V | 3R3 |
| TCR6045-3R9N | 3.9 | 30 | 20 | 4.90 | 3.20 | 100KHz /0.25V | 3R9 |
| TCR6045-4R7N | 4.7 | 30 | 24 | 4.50 | 3.00 | 100KHz /0.25V | 4R7 |
| TCR6045-5R6N | 5.6 | 30 | 31 | 3.70 | 2.80 | 100KHz /0.25V | 5R6 |
| TCR6045-6R8M | 6.8 | 20 | 33 | 3.30 | 2.70 | 100KHz /0.25V | 6R8 |
| TCR6045-8R2M | 8.2 | 20 | 45 | 3.20 | 2.60 | 100KHz /0.25V | 8R2 |
| TCR6045-100M | 10 | 20 | 52 | 3.00 | 2.50 | 100KHz /0.25V | 100 |
| TCR6045-120M | 12 | 20 | 58 | 2.80 | 2.20 | 100KHz /0.25V | 120 |
| TCR6045-150M | 15 | 20 | 77 | 2.50 | 1.90 | 100KHz /0.25V | 150 |
| TCR6045-220M | 22 | 20 | 115 | 2.00 | 1.50 | 100KHz /0.25V | 220 |
| TCR6045-270M | 27 | 20 | 120 | 1.90 | 1.48 | 100KHz /0.25V | 270 |
| TCR6045-330M | 33 | 20 | 150 | 1.60 | 1.45 | 100KHz /0.25V | 330 |
| TCR6045-390M | 39 | 20 | 180 | 1.50 | 1.25 | 100KHz /0.25V | 390 |
| TCR6045-470M | 47 | 20 | 220 | 1.40 | 1.20 | 100KHz /0.25V | 470 |
| TCR6045-560M | 56 | 20 | 260 | 1.30 | 1.10 | 100KHz /0.25V | 560 |
| TCR6045-680M | 68 | 20 | 290 | 1.20 | 0.90 | 100KHz /0.25V | 680 |
| TCR6045-820M | 82 | 20 | 355 | 1.10 | 0.85 | 100KHz /0.25V | 820 |
| TCR6045-101M | 100 | 20 | 430 | 1.00 | 0.80 | 100KHz /0.25V | 101 |
| TCR6045-121M | 120 | 20 | 530 | 0.85 | 0.75 | 100KHz /0.25V | 121 |
| TCR6045-151M | 150 | 20 | 760 | 0.80 | 0.70 | 100KHz /0.25V | 151 |
| TCR6045-181M | 180 | 20 | 845 | 0.75 | 0.65 | 100KHz /0.25V | 181 |
| TCR6045-221M | 220 | 20 | 890 | 0.63 | 0.55 | 100KHz /0.25V | 221 |
| TCR6045-331M | 330 | 20 | 1410 | 0.51 | 0.48 | 100KHz /0.25V | 331 |

**Isat :**

DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**

DC Current that will cause an approximate ΔT of 40 ℃

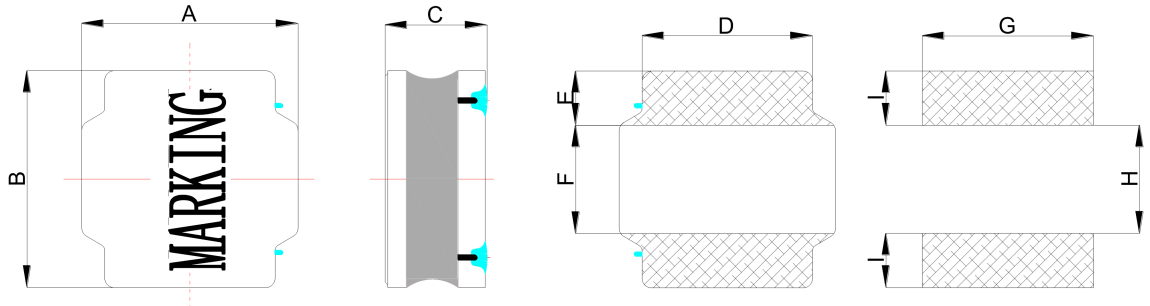
**Measuring Instrument :**

L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise: HP4284A+42841

# Sealed Power Inductors – TCR Series

## 1.Shape and Dimension ( Unit:mm )

Recommended land pattern




注：喷码整体尺寸规格，长 4.5±0.5mm,宽 3.0±0.5mm

| A | B | C | D | E | F | G | H | I |
|---|---|---|---|---|---|---|---|---|
| 8.0 ± 0.3 | 8.0 ± 0.3 | 4.2Max | 6.3±0.3 | 2.0±0.3 | 4.0±0.3 | 7.5 | 3.8 | 2.2 |

* Dimension without tolerance is approx.

## 2. Electronic Characteristics List

| Part Number | Inductance (uH) | Tolerance (±%) | DCR(mΩ) ±30% | Isat (A) | Irise (A) | Test Condition | Marking |
|---|---|---|---|---|---|---|---|
| TCR8040-R56N | 0.56 | 30 | 5 | 11.5 | 7.6 | 1MHz /0.25V | R56 |
| TCR8040-1R0N | 1.0 | 30 | 8 | 9.85 | 6.30 | 100KHz /0.25V | 1R0 |
| TCR8040-1R5N | 1.5 | 30 | 10 | 8.15 | 5.65 | 100KHz /0.25V | 1R5 |
| TCR8040-2R2N | 2.2 | 30 | 12 | 7.10 | 5.15 | 100KHz /0.25V | 2R2 |
| TCR8040-3R3N | 3.3 | 30 | 17 | 6.50 | 4.40 | 100KHz /0.25V | 3R3 |
| TCR8040-4R7N | 4.7 | 30 | 20 | 5.90 | 4.00 | 100KHz /0.25V | 4R7 |
| TCR8040-5R6N | 5.6 | 30 | 24 | 5.50 | 3.80 | 100KHz /0.25V | 5R6 |
| TCR8040-6R8M | 6.8 | 20 | 28 | 4.55 | 3.60 | 100KHz /0.25V | 6R8 |
| TCR8040-8R2M | 8.2 | 20 | 35 | 4.20 | 3.40 | 100KHz /0.25V | 8R2 |
| TCR8040-100M | 10 | 20 | 37 | 3.60 | 3.10 | 100KHz /0.25V | 100 |
| TCR8040-150M | 15 | 20 | 56 | 2.95 | 2.50 | 100KHz /0.25V | 150 |
| TCR8040-220M | 22 | 20 | 74 | 2.40 | 2.00 | 100KHz /0.25V | 220 |
| TCR8040-270M | 27 | 20 | 80 | 2.15 | 1.90 | 100KHz /0.25V | 270 |
| TCR8040-330M | 33 | 20 | 100 | 2.05 | 1.70 | 100KHz /0.25V | 330 |
| TCR8040-470M | 47 | 20 | 158 | 1.75 | 1.50 | 100KHz /0.25V | 470 |
| TCR8040-560M | 56 | 20 | 160 | 1.55 | 1.40 | 100KHz /0.25V | 560 |
| TCR8040-680M | 68 | 20 | 196 | 1.45 | 1.20 | 100KHz /0.25V | 680 |
| TCR8040-101M | 100 | 20 | 295 | 1.15 | 1.00 | 100KHz /0.25V | 101 |
| TCR8040-151M | 150 | 20 | 470 | 1.10 | 0.80 | 100KHz /0.25V | 151 |
| TCR8040-171M | 170 | 20 | 538 | 0.95 | 0.75 | 100KHz /0.25V | 171 |
| TCR8040-181M | 180 | 20 | 610 | 0.90 | 0.75 | 100KHz /0.25V | 181 |
| TCR8040-221M | 220 | 20 | 660 | 0.85 | 0.70 | 100KHz /0.25V | 221 |
| TCR8040-331M | 330 | 20 | 970 | 0.68 | 0.55 | 100KHz /0.25V | 331 |
| TCR8040-471M | 470 | 20 | 1400 | 0.60 | 0.48 | 100KHz /0.25V | 471 |
| TCR8040-681M | 680 | 20 | 1750 | 0.50 | 0.45 | 100KHz /0.25V | 681 |

**Isat :**
DC Saturation Current that will cause initial inductance to drop approximately 30% max.

**Irise :**
DC Current that will cause an approximate ΔT of 40 ℃

**Measuring Instrument :**
L:HIOKI3532-50 DCR:HIOKI 3540 Isat / Irise: HP4284A+42841