



PRODUCT IDENTIFICATION

STP - 0301 - 1R0 K

| | | |
 Type Size Inductance Tolerance

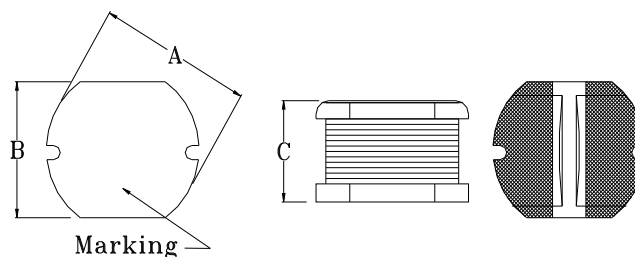
FEATURES

- ◆ High saturation for surface mount
- ◆ High current rating for high current circuits
- ◆ Special lead wire design to prevent open circuit failure
- ◆ Excellent terminal strength construction



APPLICATIONS

- ◆ OA equipments
- ◆ PC and notebook
- ◆ LCD TV set
- ◆ Power supply

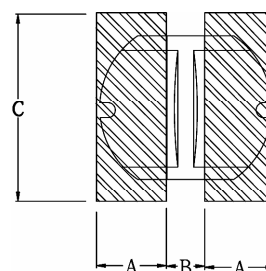


DIMENSIONS (mm)

| No. | Part No. | Size (mm) | | |
|-----|----------|-----------|-----------|------------|
| | | A | B | C |
| 1 | STP 0301 | 3.5 ± 0.3 | 3.0 ± 0.3 | 1.0 ± 0.30 |
| 2 | STP 0315 | 3.5 ± 0.3 | 3.0 ± 0.3 | 1.6 ± 0.30 |
| 3 | STP 0302 | 3.5 ± 0.3 | 3.0 ± 0.3 | 2.3 ± 0.30 |
| 4 | STP 0403 | 4.5 ± 0.3 | 4.0 ± 0.3 | 3.2 ± 0.30 |
| 5 | STP 0504 | 5.8 ± 0.3 | 5.2 ± 0.3 | 4.5 ± 0.35 |
| 6 | STP 0703 | 7.8 ± 0.3 | 7.0 ± 0.3 | 3.5 ± 0.50 |
| 7 | STP 0705 | 7.8 ± 0.3 | 7.0 ± 0.3 | 5.0 ± 0.50 |
| 8 | STP 1004 | 10 ± 0.3 | 9.0 ± 0.3 | 4.0 ± 0.50 |
| 9 | STP 1005 | 10 ± 0.4 | 9.0 ± 0.4 | 5.4 ± 0.40 |

RECOMMENDED PATTERN (mm)

| Part | A | B | C |
|----------|------|------|------|
| STP 0301 | 1.40 | 0.80 | 3.00 |
| STP 0315 | 1.40 | 0.80 | 3.00 |
| STP 0302 | 1.40 | 0.80 | 3.00 |
| STP 0403 | 1.80 | 1.50 | 4.50 |
| STP 0504 | 1.80 | 1.90 | 5.00 |
| STP 0703 | 3.00 | 2.00 | 7.50 |
| STP 0705 | 3.00 | 2.00 | 7.50 |
| STP 1004 | 3.75 | 2.50 | 9.50 |
| STP 1005 | 3.75 | 2.50 | 9.50 |



PACKAGE

| Type | STP 0301 | STP 0315/0302 | STP 0403 | STP 0504 | STP 0703 | STP 0705 | STP 1004 | STP 1005 |
|-----------|----------|---------------|----------|----------|----------|----------|----------|----------|
| Q'TY/Reel | 3,000 | 3,000 | 1,500 | 1,500 | 1,000 | 1,000 | 500 | 500 |

| Part Code | L (μ H) | STP 0301 | | STP 0315 | | STP 0302 | | STP 0403 | | STP 0504 | |
|-----------|--------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) |
| 1R0 | 1.0 | 0.09 | 1.70 | | | | | 0.05 | 2.56 | | |
| 1R4 | 1.4 | | | | | | | 0.06 | 2.52 | | |
| 1R8 | 1.8 | | | | | | | 0.06 | 1.95 | | |
| 2R2 | 2.2 | 0.12 | 1.30 | 0.13 | 0.79 | | | 0.07 | 1.75 | | |
| 2R7 | 2.7 | | | | | | | 0.08 | 1.58 | | |
| 3R3 | 3.3 | 0.16 | 1.30 | | | | | 0.09 | 1.44 | | |
| 3R9 | 3.9 | | | | | | | 0.09 | 1.33 | | |
| 4R7 | 4.7 | 0.23 | 1.00 | 0.20 | 0.65 | | | 0.11 | 1.15 | | |
| 5R6 | 5.6 | | | | | | | 0.13 | 0.99 | | |
| 6R8 | 6.8 | 0.32 | 0.90 | | | | | 0.13 | 0.95 | | |
| 8R2 | 8.2 | | | | | | | 0.15 | 0.84 | | |
| 100 | 10 | 0.47 | 0.75 | 0.39 | 0.45 | 0.23 | 0.76 | 0.18 | 1.04 | 0.10 | 1.44 |
| 120 | 12 | | | | | 0.27 | 0.69 | 0.210 | 0.97 | 0.12 | 1.40 |
| 150 | 15 | 0.77 | 0.65 | 0.75 | 0.30 | 0.31 | 0.64 | 0.24 | 0.85 | 0.14 | 1.30 |
| 180 | 18 | | | | | 0.41 | 0.53 | 0.34 | 0.74 | 0.15 | 1.23 |
| 220 | 22 | 0.95 | 0.50 | 0.92 | 0.25 | 0.47 | 0.50 | 0.38 | 0.68 | 0.18 | 1.11 |
| 270 | 27 | | | | | 0.66 | 0.41 | 0.52 | 0.62 | 0.20 | 0.97 |
| 330 | 33 | 1.95 | 0.30 | 1.43 | 0.20 | 0.76 | 0.38 | 0.540 | 0.56 | 0.23 | 0.88 |
| 390 | 39 | | | | | 0.85 | 0.36 | 0.59 | 0.52 | 0.32 | 0.80 |
| 470 | 47 | 2.65 | 0.25 | 1.69 | 0.17 | 0.97 | 0.33 | 0.84 | 0.44 | 0.37 | 0.72 |
| 560 | 56 | | | | | 1.25 | 0.29 | 0.94 | 0.42 | 0.42 | 0.68 |
| 680 | 68 | 3.13 | 0.20 | 2.86 | 0.13 | 1.45 | 0.28 | 1.12 | 0.37 | 0.46 | 0.61 |
| 820 | 82 | | | | | 1.85 | 0.24 | | | 0.60 | 0.58 |
| 101 | 100 | 4.13 | 0.18 | 4.55 | 0.10 | 2.20 | 0.22 | | | 0.70 | 0.52 |
| 121 | 120 | | | | | 2.90 | 0.19 | | | 0.93 | 0.48 |
| 151 | 150 | | | | | 3.40 | 0.17 | | | 1.10 | 0.40 |
| 181 | 180 | | | | | 3.90 | 0.17 | | | 1.38 | 0.38 |
| 221 | 220 | | | | | 4.50 | 0.16 | | | 1.57 | 0.35 |
| 271 | 270 | | | | | 6.00 | 0.14 | | | | |
| 331 | 330 | | | | | 7.00 | 0.13 | | | | |
| 391 | 390 | | | | | 7.80 | 0.12 | | | | |
| 471 | 470 | | | | | | | | | | |
| 561 | 560 | | | | | | | | | | |
| 681 | 680 | | | | | | | | | | |
| 821 | 820 | | | | | | | | | | |
| 102 | 1000 | | | | | | | | | | |
| 122 | 1200 | | | 49.40 | 0.05 | | | | | | |
| 152 | 1500 | | | 71.50 | 0.03 | | | | | | |

DCR & IDC are listed all Max. value.

Tolerance : M= \pm 20%,K \pm 10%

M and K tolerance are standard for STP 0301. K tolerance is standard for the others.

| Part Code | L (μ H) | STP 0703 | | STP 0705 | | STP 1004 | | STP 1005 | |
|-----------|--------------|-----------------|--------|-----------------|--------|-----------------|--------|-----------------|--------|
| | | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) | RDC(Ω) | IDC(A) |
| 1R0 | 1.0 | | | | | | | | |
| 1R2 | 1.2 | | | | | | | | |
| 1R4 | 1.4 | | | | | | | | |
| 1R5 | 1.5 | | | | | | | | |
| 1R8 | 1.8 | | | | | | | | |
| 2R2 | 2.2 | | | | | | | | |
| 2R7 | 2.7 | | | | | | | | |
| 3R3 | 3.3 | | | | | | | | |
| 3R9 | 3.9 | | | | | | | | |
| 4R7 | 4.7 | | | | | | | | |
| 5R6 | 5.6 | | | | | | | | |
| 6R8 | 6.8 | | | | | | | | |
| 8R2 | 8.2 | | | | | | | | |
| 100 | 10 | 0.08 | 1.44 | 0.07 | 2.30 | 0.05 | 2.38 | 0.06 | 2.60 |
| 120 | 12 | 0.09 | 1.39 | 0.08 | 2.00 | 0.06 | 2.13 | 0.07 | 2.45 |
| 150 | 15 | 0.10 | 1.24 | 0.09 | 1.80 | 0.07 | 1.87 | 0.08 | 2.27 |
| 180 | 18 | 0.11 | 1.12 | 0.10 | 1.60 | 0.08 | 1.73 | 0.09 | 2.15 |
| 220 | 22 | 0.13 | 1.07 | 0.11 | 1.50 | 0.09 | 1.60 | 0.10 | 1.95 |
| 270 | 27 | 0.15 | 0.94 | 0.12 | 1.30 | 0.10 | 1.44 | 0.11 | 1.76 |
| 330 | 33 | 0.17 | 0.85 | 0.13 | 1.20 | 0.12 | 1.26 | 0.12 | 1.50 |
| 390 | 39 | 0.22 | 0.74 | 0.16 | 1.10 | 0.15 | 1.20 | 0.14 | 1.37 |
| 470 | 47 | 0.25 | 0.68 | 0.18 | 1.10 | 0.17 | 1.10 | 0.17 | 1.28 |
| 560 | 56 | 0.28 | 0.64 | 0.24 | 0.94 | 0.20 | 1.01 | 0.19 | 1.17 |
| 680 | 68 | 0.33 | 0.59 | 0.28 | 0.85 | 0.22 | 0.91 | 0.22 | 1.11 |
| 820 | 82 | 0.41 | 0.54 | 0.37 | 0.78 | 0.25 | 0.85 | 0.25 | 1.00 |
| 101 | 100 | 0.48 | 0.51 | 0.43 | 0.72 | 0.34 | 0.74 | 0.35 | 0.97 |
| 121 | 120 | 0.54 | 0.49 | 0.47 | 0.66 | 0.40 | 0.69 | 0.40 | 0.89 |
| 151 | 150 | 0.76 | 0.40 | 0.64 | 0.58 | 0.54 | 0.61 | 0.47 | 0.78 |
| 181 | 180 | 1.02 | 0.36 | 0.71 | 0.51 | 0.62 | 0.56 | 0.63 | 0.72 |
| 221 | 220 | 1.20 | 0.31 | 0.96 | 0.49 | 0.72 | 0.53 | 0.73 | 0.66 |
| 271 | 270 | 1.31 | 0.29 | 1.11 | 0.42 | 0.95 | 0.45 | 0.97 | 0.57 |
| 331 | 330 | 1.50 | 0.28 | 1.26 | 0.40 | 1.10 | 0.42 | 1.15 | 0.52 |
| 391 | 390 | | | 1.77 | 0.36 | 1.25 | 0.38 | 1.30 | 0.48 |
| 471 | 470 | | | 1.96 | 0.34 | 1.53 | 0.35 | 1.48 | 0.42 |
| 561 | 560 | | | | | 1.90 | 0.32 | 1.90 | 0.33 |
| 681 | 680 | | | | | | | 2.25 | 0.28 |
| 821 | 820 | | | | | | | 2.55 | 0.24 |
| 102 | 1000 | | | | | | | 2.75 | 0.22 |

DCR & IDC are listed all Max. value.

Tolerance : K \pm 10% , K tolerance is standard.