

Type SC0712, SC0912, SC0914, SC1314 Series

Type SC0712, SC0912, SC0914, SC1314 Series



This range of flexible high current radial chokes is a natural choice for modern electronic circuitry. With a high temperature heat shrink outer for high insulation, DC currents up to 5.6 at 3.3uH (SC1314) and rated to 600V they are suited to most applications, especially high power circuitry such as lighting ballasts, power supplies, etc...

Key Features

- E12 Series Values
- Suited To Power Circuits
- Up to 5.6 Amps (SC1314)
- Wide Value Range
- High Reliability Ferrite Core

Characteristics - Electrical SC0712 Style

| Inductance Code | Inductance (uH) | Tolerance % | Q Test Freq. MHz | Q Factor Min. | S.R.F. MHz Min. | DC Resistance (Ω) Max. | Direct Current Max. (A) |
|-----------------|-----------------|-------------|------------------|---------------|-----------------|------------------------|-------------------------|
| 100 | 10 | 10 | 2.52 | 20 | 16.0 | 0.07 | 1.10 |
| 120 | 12 | 10 | 2.52 | 20 | 12.0 | 0.08 | 1.00 |
| 150 | 15 | 10 | 2.52 | 20 | 10.0 | 0.09 | 0.90 |
| 180 | 18 | 10 | 2.52 | 20 | 10.0 | 0.10 | 0.75 |
| 220 | 22 | 10 | 2.52 | 20 | 9.0 | 0.12 | 0.70 |
| 270 | 27 | 10 | 2.52 | 20 | 8.0 | 0.13 | 0.65 |
| 330 | 33 | 10 | 2.52 | 20 | 7.0 | 0.15 | 0.60 |
| 390 | 39 | 10 | 2.52 | 20 | 6.0 | 0.16 | 0.55 |
| 470 | 47 | 10 | 2.52 | 20 | 6.0 | 0.18 | 0.45 |
| 560 | 56 | 10 | 2.52 | 20 | 5.0 | 0.21 | 0.40 |
| 680 | 68 | 10 | 2.52 | 20 | 5.0 | 0.24 | 0.36 |
| 820 | 82 | 10 | 2.52 | 20 | 5.0 | 0.35 | 0.34 |
| 101 | 100 | 10 | 0.796 | 20 | 4.0 | 0.40 | 0.32 |
| 121 | 120 | 10 | 0.796 | 20 | 4.0 | 0.45 | 0.30 |
| 151 | 150 | 10 | 0.796 | 20 | 3.5 | 0.50 | 0.28 |
| 181 | 180 | 10 | 0.796 | 20 | 3.0 | 0.75 | 0.26 |
| 221 | 220 | 10 | 0.796 | 20 | 3.0 | 0.90 | 0.24 |
| 271 | 270 | 10 | 0.796 | 20 | 2.5 | 1.00 | 0.22 |
| 331 | 330 | 10 | 0.796 | 20 | 2.5 | 1.10 | 0.20 |
| 391 | 390 | 10 | 0.796 | 20 | 2.0 | 1.20 | 0.18 |
| 471 | 470 | 10 | 0.796 | 20 | 2.0 | 1.50 | 0.16 |
| 561 | 560 | 10 | 0.796 | 20 | 2.0 | 1.80 | 0.15 |

SC0912 Style

| Inductance Code | Inductance (uH) | Tolerance % | Q Test Freq. MHz | Q Factor Min. | S.R.F. MHz Min. | DC Resistance (Ω) Max. | Direct Current Max. (A) |
|-----------------|-----------------|-------------|------------------|---------------|-----------------|------------------------|-------------------------|
| 1R5 | 1.5 | 20 | 7.96 | 30 | 78.0 | 0.008 | 5.40 |
| 2R2 | 2.2 | 20 | 7.96 | 30 | 63.0 | 0.010 | 4.50 |
| 3R3 | 3.3 | 20 | 7.96 | 30 | 50.0 | 0.018 | 3.60 |
| 4R7 | 4.7 | 20 | 7.96 | 30 | 41.0 | 0.022 | 3.10 |
| 6R8 | 6.8 | 20 | 7.96 | 30 | 33.0 | 0.028 | 2.50 |
| 100 | 10 | 10 | 2.52 | 60 | 27.0 | 0.043 | 2.10 |
| 150 | 15 | 10 | 2.52 | 50 | 21.0 | 0.056 | 1.70 |
| 220 | 22 | 10 | 2.52 | 50 | 17.0 | 0.086 | 1.40 |
| 330 | 33 | 10 | 2.52 | 45 | 13.0 | 0.140 | 1.10 |
| 470 | 47 | 10 | 2.52 | 40 | 11.0 | 0.170 | 0.96 |
| 680 | 68 | 10 | 2.52 | 35 | 9.0 | 0.280 | 0.79 |
| 101 | 100 | 10 | 0.796 | 55 | 7.2 | 0.330 | 0.66 |
| 151 | 150 | 10 | 0.796 | 40 | 5.7 | 0.560 | 0.53 |
| 221 | 220 | 10 | 0.796 | 30 | 4.5 | 0.720 | 0.44 |
| 331 | 330 | 10 | 0.796 | 25 | 3.6 | 1.100 | 0.36 |
| 471 | 470 | 10 | 0.796 | 25 | 2.9 | 1.700 | 0.30 |
| 681 | 680 | 10 | 0.796 | 25 | 2.3 | 2.300 | 0.25 |
| 102 | 1000 | 10 | 0.252 | 55 | 1.9 | 4.300 | 0.20 |

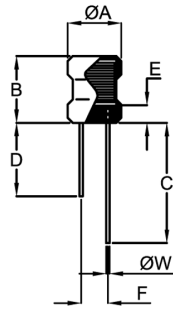
Type SC0712, SC0912, SC0914, SC1314 Series
**Characteristics - Electrical
SC0914 Style**

| Inductance Code | Inductance (uH) | Tolerance % | Q Test Freq. MHz | Q Factor Min. | S.R.F. MHz Min. | DC Resistance (Ω) Max. | Direct Current Max. (A) |
|-----------------|-----------------|-------------|------------------|---------------|-----------------|------------------------|-------------------------|
| 3R3 | 3.3 | 20 | 7.96 | 20 | 70.0 | 0.027 | 3.60 |
| 4R7 | 4.7 | 20 | 7.96 | 20 | 50.0 | 0.033 | 3.20 |
| 6R8 | 6.8 | 20 | 7.96 | 20 | 30.0 | 0.039 | 3.00 |
| 100 | 10 | 10 | 2.52 | 50 | 20.0 | 0.048 | 2.70 |
| 120 | 12 | 10 | 2.52 | 50 | 15.0 | 0.055 | 2.50 |
| 150 | 15 | 10 | 2.52 | 50 | 10.0 | 0.060 | 2.40 |
| 180 | 18 | 10 | 2.52 | 40 | 9.5 | 0.065 | 2.30 |
| 220 | 22 | 10 | 2.52 | 40 | 9.0 | 0.090 | 1.90 |
| 270 | 27 | 10 | 2.52 | 40 | 8.5 | 0.11 | 1.80 |
| 330 | 33 | 10 | 2.52 | 40 | 8.0 | 0.12 | 1.70 |
| 390 | 39 | 10 | 2.52 | 30 | 7.0 | 0.13 | 1.60 |
| 470 | 47 | 10 | 2.52 | 30 | 6.0 | 0.14 | 1.50 |
| 560 | 56 | 10 | 2.52 | 30 | 5.0 | 0.20 | 1.30 |
| 680 | 68 | 10 | 2.52 | 30 | 4.5 | 0.21 | 1.20 |
| 820 | 82 | 10 | 2.52 | 30 | 4.0 | 0.23 | 1.10 |
| 101 | 100 | 10 | 0.796 | 30 | 3.5 | 0.28 | 1.00 |
| 121 | 120 | 10 | 0.796 | 30 | 3.0 | 0.32 | 0.90 |
| 151 | 150 | 10 | 0.796 | 30 | 2.8 | 0.37 | 0.80 |
| 181 | 180 | 10 | 0.796 | 30 | 2.6 | 0.54 | 0.75 |
| 221 | 220 | 10 | 0.796 | 30 | 2.4 | 0.60 | 0.70 |
| 271 | 270 | 10 | 0.796 | 20 | 2.2 | 0.68 | 0.65 |
| 331 | 330 | 10 | 0.796 | 20 | 2.0 | 0.76 | 0.60 |
| 391 | 390 | 10 | 0.796 | 20 | 1.9 | 0.85 | 0.55 |
| 471 | 470 | 10 | 0.796 | 20 | 1.8 | 1.30 | 0.50 |
| 561 | 560 | 10 | 0.796 | 20 | 1.7 | 1.40 | 0.45 |
| 681 | 680 | 10 | 0.796 | 20 | 1.6 | 1.60 | 0.40 |
| 821 | 820 | 10 | 0.796 | 20 | 1.5 | 1.80 | 0.35 |
| 102 | 1000 | 10 | 0.252 | 40 | 1.3 | 2.10 | 0.30 |

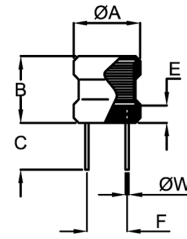
SC1314 Style

| Inductance Code | Inductance (uH) | Tolerance % | Q Test Freq. MHz | Q Factor Min. | S.R.F. MHz Min. | DC Resistance (Ω) Max. | Direct Current Max. (A) |
|-----------------|-----------------|-------------|------------------|---------------|-----------------|------------------------|-------------------------|
| 3R3 | 3.3 | 20 | 7.96 | 90 | 59.0 | 0.008 | 5.60 |
| 4R7 | 4.7 | 20 | 7.96 | 100 | 45.0 | 0.009 | 4.70 |
| 6R8 | 6.8 | 20 | 7.96 | 80 | 34.0 | 0.012 | 3.90 |
| 100 | 10 | 20 | 2.52 | 140 | 26.0 | 0.015 | 3.20 |
| 150 | 15 | 20 | 2.52 | 120 | 19.0 | 0.019 | 2.60 |
| 220 | 22 | 10 | 2.52 | 110 | 14.0 | 0.026 | 2.20 |
| 330 | 33 | 10 | 2.52 | 100 | 10.0 | 0.045 | 1.80 |
| 470 | 47 | 10 | 2.52 | 90 | 8.30 | 0.056 | 1.50 |
| 680 | 68 | 10 | 2.52 | 80 | 6.70 | 0.092 | 1.20 |
| 101 | 100 | 10 | 0.796 | 70 | 5.40 | 0.12 | 1.00 |
| 151 | 150 | 10 | 0.796 | 70 | 4.30 | 0.20 | 0.82 |
| 221 | 220 | 10 | 0.796 | 40 | 3.40 | 0.25 | 0.68 |
| 331 | 330 | 10 | 0.796 | 40 | 2.70 | 0.42 | 0.55 |
| 471 | 470 | 10 | 0.796 | 30 | 2.30 | 0.51 | 0.46 |
| 681 | 680 | 10 | 0.796 | 30 | 1.90 | 0.79 | 0.38 |
| 102 | 1000 | 10 | 0.252 | 40 | 1.60 | 1.30 | 0.31 |
| 152 | 1500 | 10 | 0.252 | 30 | 1.30 | 1.70 | 0.25 |
| 222 | 2200 | 10 | 0.252 | 60 | 1.10 | 2.90 | 0.21 |
| 332 | 3300 | 10 | 0.252 | 50 | 0.90 | 3.70 | 0.17 |
| 472 | 4700 | 10 | 0.252 | 50 | 0.76 | 5.60 | 0.14 |
| 682 | 6800 | 10 | 0.252 | 60 | 0.65 | 9.40 | 0.12 |
| 103 | 10000 | 10 | 0.0796 | 80 | 0.53 | 12.0 | 0.10 |
| 153 | 15000 | 10 | 0.0796 | 70 | 0.41 | 15.0 | 0.082 |

Dimensions SC0712 / SC0914



SC0912 / SC1314



| Series | A (mm) | B (mm) | C (mm) | D (mm) | E (mm) | F (mm) | W (Dia) (mm) |
|---------|----------|----------|----------|----------|----------|---------|--------------|
| SC0712 | 6.7±0.5 | 10.0±1.0 | 28.0±5.0 | 18.0±5.0 | 2.5 max. | 3.0±0.5 | 0.65 |
| SC0912 | 8.7±0.5 | 10.0±1.0 | 25.0±5.0 | --- | 2.5 max. | 5.0±0.5 | 0.65 |
| SC0914 | 8.7±0.5 | 12.0±1.0 | 18.0±5.0 | 12.0±1.0 | 2.5 max. | 5.0±0.8 | 0.65 |
| SC1314* | 11.7±0.5 | 12.0±1.0 | 15.0±5.0 | --- | 2.5 max. | 9.0±1.0 | See Note |
| | 11.7±0.5 | 12.0±1.0 | 15.0±5.0 | --- | | 7.0±0.8 | 0.65 |

* N.B.¹ For Value Range 3.3 µH to 47 µH
 N.B.² For Value Range 68 µH to 15000 µH

Characteristics

| | |
|------------------------------|-------------------------------|
| Temperature Rise: | 20°C maximum at rated current |
| Storage Temperature: | -25°C to +85°C |
| Operating Temperature Range: | -20°C to +80°C |

How to Order

| SC | 0712 | 103 | J |
|--------------------|------------------------------|--|------------------------------|
| Common Part | Package Size | Inductance Value | Tolerance |
| SC | 0712 0912 0914 1314 | See relevant table for Inductance Code | J - 5% K - 10% M - 20% |