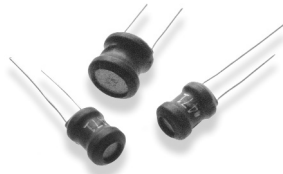


## Type SC0712, SC0912, SC0914, SC1314 Series

### 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                    |

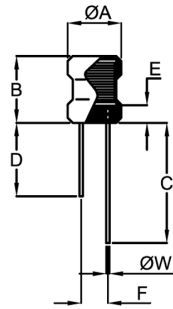
**Type SC0712, SC0912, SC0914, SC1314 Series**
**Characteristics - Electrical  
SC0914 Style**

| 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                    |

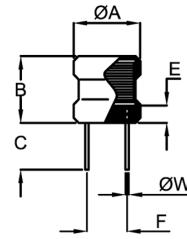
**SC1314 Style**

| 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.<sup>1</sup> For Value Range 3.3 µH to 47 µH  
 N.B.<sup>2</sup> 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                            |
|--------------------|------------------------------|--|------------------------------|
| <b>Common Part</b> | <b>Package Size</b>          | <b>Inductance Value</b>                | <b>Tolerance</b>             |
| SC                 | 0712<br>0912<br>0914<br>1314 | See relevant table for Inductance Code | J - 5%<br>K - 10%<br>M - 20% |