



## Features

- Formerly *J.W. Miller* model
- Current rating up to 6.33 A
- Inductance range: 10  $\mu$ H to 18,000  $\mu$ H
- RoHS compliant\*

## Applications

- DC/DC converters
- Power supplies
- Desktop notebooks
- Output chokes

# 6100 Series - Radial Lead RF Choke

## Electrical Specifications (@ 25 °C)

| Part Number  | Inductance ( $\mu$ H) $\pm 10$ % | Q (Ref.) | Test Frequency |          | SRF (MHz) Typ. | DCR ( $\Omega$ ) max. | I dc (A) |
|--------------|----------------------------------|----------|----------------|----------|----------------|-----------------------|----------|
|              |                                  |          | L              | Q        |                |                       |          |
| 6100-100K-RC | 10                               | 21.0     | 100 KHz        | 2.52 MHz | 21.0           | 0.020                 | 6.33     |
| 6100-120K-RC | 12                               | 18.3     | 100 KHz        | 2.52 MHz | 18.3           | 0.022                 | 5.75     |
| 6100-150K-RC | 15                               | 15.5     | 100 KHz        | 2.52 MHz | 15.5           | 0.024                 | 5.28     |
| 6100-180K-RC | 18                               | 13.8     | 100 KHz        | 2.52 MHz | 13.8           | 0.027                 | 4.80     |
| 6100-220K-RC | 22                               | 12.0     | 100 KHz        | 2.52 MHz | 12.0           | 0.039                 | 4.52     |
| 6100-270K-RC | 27                               | 11.3     | 100 KHz        | 2.52 MHz | 11.3           | 0.047                 | 3.75     |
| 6100-330K-RC | 33                               | 10.5     | 100 KHz        | 2.52 MHz | 10.5           | 0.059                 | 3.39     |
| 6100-390K-RC | 39                               | 9.4      | 100 KHz        | 2.52 MHz | 9.4            | 0.079                 | 3.08     |
| 6100-470K-RC | 47                               | 8.3      | 100 KHz        | 2.52 MHz | 8.3            | 0.084                 | 2.79     |
| 6100-560K-RC | 56                               | 7.6      | 100 KHz        | 2.52 MHz | 7.6            | 0.089                 | 2.57     |
| 6100-680K-RC | 68                               | 6.8      | 100 KHz        | 2.52 MHz | 6.8            | 0.11                  | 2.38     |
| 6100-820K-RC | 82                               | 6.3      | 100 KHz        | 2.52 MHz | 6.3            | 0.15                  | 2.18     |
| 6100-101K-RC | 100                              | 5.8      | 100 KHz        | 796 KHz  | 5.8            | 0.16                  | 1.98     |
| 6100-121K-RC | 120                              | 5.0      | 100 KHz        | 796 KHz  | 5.0            | 0.23                  | 1.80     |
| 6100-151K-RC | 150                              | 4.2      | 100 KHz        | 796 KHz  | 4.2            | 0.24                  | 1.61     |
| 6100-181K-RC | 180                              | 3.9      | 100 KHz        | 796 KHz  | 3.9            | 0.31                  | 1.45     |
| 6100-221K-RC | 220                              | 3.5      | 100 KHz        | 796 KHz  | 3.5            | 0.35                  | 1.32     |
| 6100-271K-RC | 270                              | 3.2      | 100 KHz        | 796 KHz  | 3.2            | 0.52                  | 1.18     |
| 6100-331K-RC | 330                              | 2.9      | 100 KHz        | 796 KHz  | 2.9            | 0.60                  | 1.10     |
| 6100-391K-RC | 390                              | 2.8      | 100 KHz        | 796 KHz  | 2.8            | 0.64                  | 1.00     |
| 6100-471K-RC | 470                              | 2.6      | 100 KHz        | 796 KHz  | 2.6            | 0.77                  | 0.90     |
| 6100-561K-RC | 560                              | 2.3      | 100 KHz        | 796 KHz  | 2.3            | 0.87                  | 0.83     |
| 6100-681K-RC | 680                              | 2.0      | 100 KHz        | 796 KHz  | 2.0            | 1.09                  | 0.76     |
| 6100-821K-RC | 820                              | 1.8      | 100 KHz        | 796 KHz  | 1.8            | 1.44                  | 0.69     |
| 6100-102K-RC | 1000                             | 1.6      | 100 KHz        | 252 KHz  | 1.6            | 1.55                  | 0.62     |
| 6100-122K-RC | 1200                             | 1.4      | 100 KHz        | 252 KHz  | 1.4            | 2.20                  | 0.57     |
| 6100-152K-RC | 1500                             | 1.3      | 100 KHz        | 252 KHz  | 1.3            | 2.50                  | 0.51     |
| 6100-182K-RC | 1800                             | 1.2      | 100 KHz        | 252 KHz  | 1.2            | 3.65                  | 0.47     |
| 6100-222K-RC | 2200                             | 1.1      | 100 KHz        | 252 KHz  | 1.1            | 4.26                  | 0.42     |
| 6100-272K-RC | 2700                             | 1.0      | 100 KHz        | 252 KHz  | 1.0            | 5.41                  | 0.38     |
| 6100-332K-RC | 3300                             | 1.0      | 100 KHz        | 252 KHz  | 1.0            | 5.63                  | 0.35     |
| 6100-392K-RC | 3900                             | 0.9      | 100 KHz        | 252 KHz  | 0.9            | 6.62                  | 0.32     |
| 6100-472K-RC | 4700                             | 0.8      | 100 KHz        | 252 KHz  | 0.8            | 8.23                  | 0.29     |
| 6100-562K-RC | 5600                             | 0.7      | 100 KHz        | 252 KHz  | 0.7            | 9.45                  | 0.27     |
| 6100-682K-RC | 6800                             | 0.6      | 100 KHz        | 252 KHz  | 0.6            | 13.2                  | 0.24     |
| 6100-822K-RC | 8200                             | 0.5      | 100 KHz        | 252 KHz  | 0.5            | 16.0                  | 0.22     |
| 6100-103K-RC | 10,000                           | 0.5      | 100 KHz        | 252 KHz  | 0.5            | 19.3                  | 0.20     |
| 6100-123K-RC | 12,000                           | 0.4      | 100 KHz        | 252 KHz  | 0.4            | 23.2                  | 0.19     |
| 6100-153K-RC | 15,000                           | 0.3      | 100 KHz        | 252 KHz  | 0.3            | 30.4                  | 0.17     |
| 6100-183K-RC | 18,000                           | 0.3      | 100 KHz        | 79.6 KHz | 0.3            | 34.1                  | 0.16     |

## General Specifications

Rated Current ..... Inductance drop 5 %  
typical at I dc

Operating Temperature

..... -40 °C to +105 °C

Storage Temperature

..... -40 °C to +105 °C

## Materials

Core Material ..... Ferrite

Wire ..... Enamelled copper

Terminal Coating ..... Sn

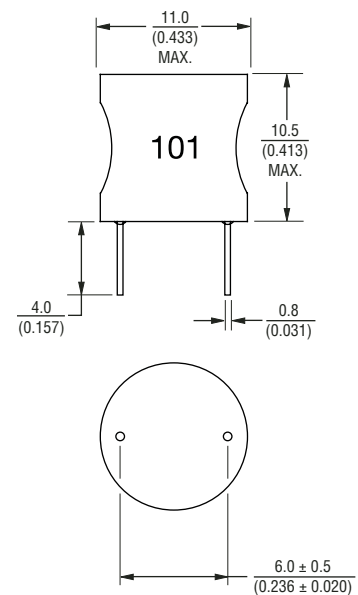
## Marking

..... Value code on side of inductor

## Packaging

Standard ..... 160 pcs. per tray

## Product Dimensions



DIMENSIONS:  $\frac{\text{MM}}{(\text{INCHES})}$

## How To Order

6100 - 562K - RC

Model

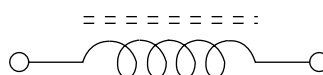
Value Code (see table)

Compliance Code

RC = RoHS Compliant

Example: 6100-562K-RC = 5600  $\mu$ H,  $\pm 10$  %

## Electrical Schematic



REV. 02/09

\*RoHS Directive 2002/95/EC Jan 27 2003 including Annex.

Specifications are subject to change without notice.

Customers should verify actual device performance in their specific applications