

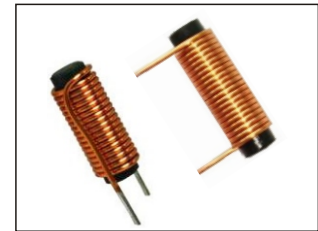
## ROD CHOKE COIL INDUCTORS

### FEATURES:

- High current capability
- Very reliable mechanical design
- Very high magnetic saturation
- Operating temperature up to +150°C  
(higher temperatures depending on mission profile)

### COMMON APPLICATIONS:

- Switching regulators
- Motors
- Power amplifiers
- Power supplies
- Broadband filtering
- Typical in VHF



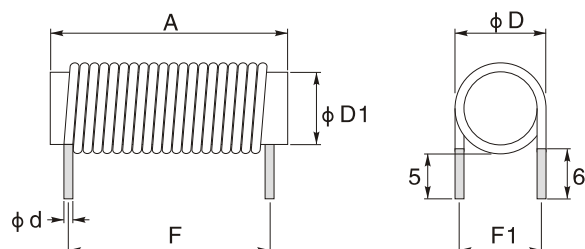
### ELECTRICAL CHARACTERISTICS:

| Part Number  | L<br>$\mu$ H | Test Freq<br>MHz | DCR<br>m $\Omega$<br>Max | I <sub>rms</sub><br>Max<br>A | I <sub>sat</sub><br>Max<br>A | Dimensions |                       |     |          |      |                |
|--------------|--------------|------------------|--------------------------|------------------------------|------------------------------|------------|-----------------------|-----|----------|------|----------------|
|              |              |                  |                          |                              |                              | $\phi$ d   | $\phi$ D <sub>1</sub> | (A) | $\phi$ D | F    | F <sub>1</sub> |
| LRC0312-1R8M | 1.8          | 1                | 8                        | 2.5                          | 10.0                         | 0.67       | 3.0                   | 12  | 4.6      | 8.8  | 3.7            |
| LRC0320-4R7M | 4.7          | 1                | 12                       | 2.5                          | 5.5                          | 0.67       | 3.0                   | 20  | 4.6      | 13.5 | 3.7            |
| LRC0322-7R0M | 7.0          | 1                | 16                       | 1.9                          | 4.6                          | 0.63       | 3.3                   | 22  | 4.8      | 14.5 | 4.0            |
| LRC0322-9R0M | 9.0          | 1                | 20                       | 1.0                          | 3.7                          | 0.63       | 3.3                   | 22  | 4.8      | 17.5 | 4.0            |
| LRC0420-1R8M | 1.8          | 1                | 3                        | 10                           | 15.0                         | 1.32       | 4.0                   | 20  | 6.9      | 15.9 | 5.4            |
| LRC0425-4R7M | 4.7          | 1                | 7                        | 6                            | 8.2                          | 1.00       | 4.0                   | 25  | 6.3      | 18.4 | 5.1            |
| LRC0430-7R0M | 7.0          | 1                | 8                        | 5                            | 6.5                          | 0.95       | 4.0                   | 30  | 6.2      | 19.5 | 5.0            |
| LRC0430-9R0M | 9.0          | 1                | 15                       | 4                            | 5.6                          | 0.85       | 4.0                   | 30  | 6.0      | 20.1 | 4.9            |
| LRC0425-120M | 12.0         | 0.1              | 22                       | 2                            | 5.0                          | 0.63       | 4.0                   | 25  | 5.5      | 16.9 | 4.7            |
| LRC0520-2R5M | 2.5          | 1                | 5                        | 6                            | 18.0                         | 1.00       | 5.0                   | 20  | 7.3      | 11.0 | 6.1            |
| LRC0525-4R7M | 4.7          | 1                | 8                        | 5                            | 13.0                         | 0.95       | 5.0                   | 25  | 7.2      | 14.5 | 6.0            |
| LRC0520-7R0M | 7.0          | 1                | 17                       | 3                            | 11.0                         | 0.71       | 5.0                   | 20  | 6.7      | 15.3 | 5.7            |
| LRC0520-100M | 10.0         | 0.1              | 24                       | 2                            | 9.0                          | 0.63       | 5.0                   | 20  | 6.5      | 16.2 | 5.7            |
| LRC0525-120M | 12.0         | 0.1              | 27                       | 2.5                          | 8.5                          | 0.63       | 5.0                   | 25  | 6.5      | 14.9 | 5.7            |
| LRC0530-250M | 25.0         | 0.1              | 38                       | 1                            | 5.0                          | 0.63       | 5.0                   | 30  | 6.5      | 22.8 | 5.7            |
| LRC0625-4R0M | 4.0          | 1                | 5                        | 10                           | 19.0                         | 1.32       | 6.0                   | 25  | 8.9      | 18.7 | 7.4            |
| LRC0625-6R0M | 6.0          | 1                | 8                        | 7                            | 17.0                         | 1.06       | 6.0                   | 25  | 8.4      | 18.6 | 7.1            |
| LRC0625-100M | 12.0         | 0.1              | 13                       | 5                            | 14.0                         | 0.95       | 6.0                   | 25  | 8.2      | 22.4 | 7.0            |
| LRC0625-150M | 15.0         | 0.1              | 30                       | 5                            | 10.0                         | 0.63       | 6.0                   | 25  | 7.5      | 16.6 | 6.7            |
| LRC0630-220M | 22.0         | 0.1              | 34                       | 2                            | 7.8                          | 0.63       | 6.0                   | 30  | 7.5      | 18.2 | 6.7            |
| LRC0630-300M | 30.0         | 0.1              | 46                       | 2                            | 7.0                          | 0.63       | 6.0                   | 30  | 7.5      | 25.5 | 6.7            |

Note: 1. K=  $\pm$  10%, M=  $\pm$  20%, N=  $\pm$  30%

### CHARACTERISTICS:

DIMENSIONS IN: mm



### ELECTRONICAL SCHEMATIC



Note: All specifications subject to change without notice.