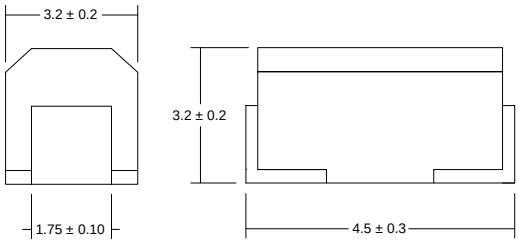
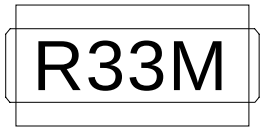
# Wound Molded Chip Inductor **(LSWM-453232 Series)**

CALIBER ELECTRONICS INC.
specifications subject to change * revision 3-2003

## Dimensions




Top View - Markings




(Not to scale)

Dimensions in mm

## Part Numbering Guide

**LSWM - 453232 - R10 M - T**

**Dimensions**
(Length, Width, Height)

**Inductance Code**

**Packaging Style**
B=Bulk
T=Tape & Reel
(500 pcs per reel)

**Tolerance**
J=5%, K=10%, M=20%

## Features

| | |
|---|---|
| **Inductance Range** | 0.10 µH to 1000 µH |
| **Tolerance** | 5%, 10%, 20% |
| **Construction** | Heat resistant resin with metal terminals |

## Electrical Specifications

| L Code | L (µH) | Q Min | LQ Test Freq (MHz) | SRF Min (MHz) | DCR Max (Ohms) | IDC Max (mA) | L Code | L (uH) | Q Min | LQ Test Freq (MHz) | SRF Min (MHz) | DCR Max (Ohms) | IDC Max (mA) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| R10 | 0.10 | 28 | 25.20 | 700 | 0.44 | 450 | 120 | 12 | 50 | 2.520 | 18 | 2.00 | 225 |
| R12 | 0.12 | 30 | 25.20 | 500 | 0.22 | 450 | 150 | 15 | 50 | 2.520 | 17 | 2.50 | 200 |
| R15 | 0.15 | 30 | 25.20 | 450 | 0.25 | 450 | 180 | 18 | 50 | 2.520 | 16 | 2.80 | 190 |
| R18 | 0.18 | 30 | 25.20 | 400 | 0.28 | 450 | 220 | 22 | 50 | 2.520 | 13 | 3.20 | 180 |
| R22 | 0.22 | 30 | 25.20 | 350 | 0.32 | 450 | 270 | 27 | 50 | 2.520 | 12 | 3.60 | 170 |
| R27 | 0.27 | 30 | 25.20 | 320 | 0.36 | 450 | 330 | 33 | 50 | 2.520 | 11 | 4.00 | 160 |
| R33 | 0.33 | 30 | 25.20 | 300 | 0.40 | 450 | 390 | 39 | 50 | 2.520 | 10 | 4.50 | 150 |
| R39 | 0.39 | 30 | 25.20 | 350 | 0.45 | 450 | 470 | 47 | 50 | 2.520 | 10 | 5.00 | 140 |
| R47 | 0.47 | 30 | 25.20 | 220 | 0.50 | 450 | 560 | 56 | 50 | 2.520 | 9 | 5.50 | 135 |
| R56 | 0.56 | 30 | 25.20 | 180 | 0.55 | 450 | 680 | 68 | 50 | 2.520 | 9 | 6.00 | 130 |
| R68 | 0.68 | 30 | 25.20 | 160 | 0.60 | 450 | 820 | 82 | 50 | 2.520 | 8 | 7.00 | 120 |
| R82 | 0.82 | 30 | 25.20 | 140 | 0.67 | 450 | 101 | 100 | 40 | 0.796 | 7 | 8.00 | 110 |
| 1R0 | 1.00 | 50 | 7.960 | 100 | 0.50 | 450 | 121 | 120 | 40 | 0.796 | 6 | 8.00 | 110 |
| 1R3 | 1.20 | 50 | 7.960 | 80 | 0.55 | 430 | 151 | 150 | 40 | 0.796 | 5 | 9.00 | 105 |
| 1R5 | 1.50 | 50 | 7.960 | 70 | 0.60 | 410 | 181 | 180 | 40 | 0.796 | 5 | 9.50 | 102 |
| 1R8 | 1.80 | 50 | 7.960 | 60 | 0.65 | 390 | 221 | 220 | 40 | 0.796 | 4 | 12.0 | 100 |
| 2R2 | 2.20 | 50 | 7.960 | 55 | 0.70 | 380 | 271 | 270 | 30 | 0.796 | 3 | 18.0 | 92 |
| 2R7 | 2.70 | 50 | 7.960 | 50 | 0.75 | 370 | 331 | 330 | 30 | 0.796 | 3 | 20.0 | 85 |
| 3R3 | 3.30 | 50 | 7.960 | 45 | 0.80 | 355 | 391 | 390 | 30 | 0.796 | 3 | 23.0 | 80 |
| 3R9 | 3.90 | 50 | 7.960 | 40 | 0.90 | 330 | 471 | 470 | 30 | 0.796 | 3 | 26.0 | 62 |
| 4R7 | 4.70 | 50 | 7.960 | 35 | 1.00 | 315 | 561 | 560 | 30 | 0.796 | 2 | 30.0 | 50 |
| 5R6 | 5.60 | 50 | 7.960 | 33 | 1.10 | 300 | 681 | 680 | 30 | 0.796 | 2 | 40.0 | 50 |
| 6R8 | 9.80 | 50 | 7.960 | 27 | 1.20 | 285 | 821 | 820 | 30 | 0.796 | 2 | 45.0 | 30 |
| 8R2 | 8.20 | 50 | 7.960 | 25 | 1.40 | 270 | 102 | 1000 | 30 | 0.796 | 2 | 50.0 | 30 |
| 100 | 10 | 50 | 2.520 | 20 | 1.60 | 250 | | | | | | | |

Specifications subject to change without notice. Rev. 10/00