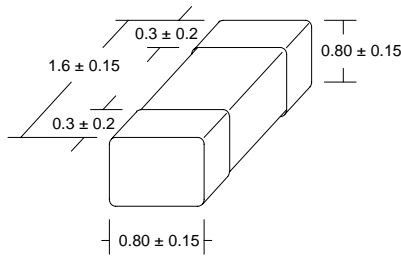


**Dimensions**



(Not to scale)

Dimensions in mm

**Part Numbering Guide**

**LSML - 160808 - 47N M - T**

Dimensions  
(Length, Width, Height)

Inductance Code

Packaging Style

B=Bulk  
T=Tape & Reel  
(4000 pcs per reel)

Tolerance  
K=10%, M=20%

**Features**

|                       |                             |
|-----------------------|-----------------------------|
| Inductance Range      | 0.047 $\mu$ H to 22 $\mu$ H |
| Tolerance             | 10%, 20%                    |
| Operating Temperature | -25°C to +85°C              |

**Electrical Specifications**

| Inductance Code | Inductance ( $\mu$ H) | Available Tolerance | Q Min | LQ Test Freq (MHz) | SRF Min (MHz) | DCR Max (Ohms) | IDC Max (mA) |
|-----------------|-----------------------|---------------------|-------|--------------------|---------------|----------------|--------------|
| 47N             | 0.047                 | M                   | 30    | 50                 | 260           | 0.30           | 50           |
| 68N             | 0.068                 | M                   | 30    | 50                 | 250           | 0.30           | 50           |
| 82N             | 0.082                 | M                   | 30    | 50                 | 245           | 0.30           | 50           |
| R10             | 0.10                  | K, M                | 40    | 25                 | 240           | 0.50           | 50           |
| R12             | 0.12                  | K, M                | 40    | 25                 | 205           | 0.50           | 50           |
| R15             | 0.15                  | K, M                | 40    | 25                 | 180           | 0.60           | 50           |
| R18             | 0.18                  | K, M                | 40    | 25                 | 165           | 0.60           | 50           |
| R22             | 0.22                  | K, M                | 40    | 25                 | 150           | 0.80           | 50           |
| R27             | 0.27                  | K, M                | 40    | 25                 | 136           | 0.80           | 50           |
| R33             | 0.33                  | K, M                | 40    | 25                 | 125           | 0.85           | 35           |
| R39             | 0.39                  | K, M                | 40    | 25                 | 110           | 1.00           | 35           |
| R47             | 0.47                  | K, M                | 40    | 25                 | 105           | 1.35           | 35           |
| R56             | 0.56                  | K, M                | 40    | 25                 | 95            | 1.55           | 35           |
| R68             | 0.68                  | K, M                | 40    | 25                 | 90            | 1.70           | 35           |
| R82             | 0.82                  | K, M                | 40    | 25                 | 85            | 2.10           | 35           |
| 1R0             | 1.0                   | K, M                | 35    | 10                 | 75            | 0.60           | 25           |
| 1R2             | 1.2                   | K, M                | 35    | 10                 | 65            | 0.80           | 25           |
| 1R5             | 1.5                   | K, M                | 35    | 10                 | 60            | 0.80           | 25           |
| 1R8             | 1.8                   | K, M                | 35    | 10                 | 55            | 0.95           | 25           |
| 2R2             | 2.2                   | K, M                | 35    | 10                 | 50            | 1.15           | 15           |
| 2R7             | 2.7                   | K, M                | 35    | 10                 | 45            | 1.35           | 15           |
| 3R3             | 3.3                   | K, M                | 35    | 10                 | 40            | 1.55           | 15           |
| 3R9             | 3.9                   | K, M                | 35    | 10                 | 35            | 1.70           | 15           |
| 4R7             | 4.7                   | K, M                | 35    | 10                 | 33            | 2.10           | 15           |
| 5R6             | 5.6                   | K, M                | 35    | 4                  | 22            | 1.55           | 5            |
| 6R8             | 6.8                   | K, M                | 35    | 4                  | 20            | 1.70           | 5            |
| 8R2             | 8.2                   | K, M                | 35    | 4                  | 18            | 2.10           | 5            |
| 100             | 10                    | K, M                | 30    | 2                  | 17            | 1.85           | 3            |
| 120             | 12                    | K, M                | 30    | 2                  | 15            | 2.10           | 3            |
| 150             | 15                    | K, M                | 20    | 1                  | 14            | 1.70           | 1            |
| 180             | 18                    | K, M                | 20    | 1                  | 13            | 1.85           | 1            |
| 220             | 22                    | K, M                | 20    | 1                  | 11            | 2.10           | 1            |

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