

## Overview

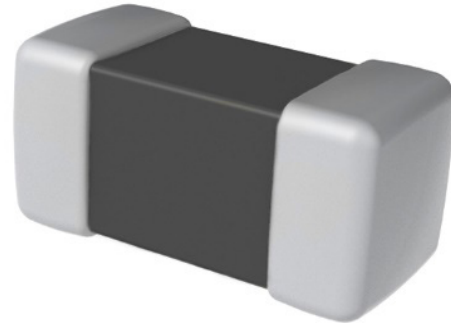
KEMET L-DWI ferrite-based Wire Wound Chip Power Inductors are ideal for use in DC to DC switching power supplies. The small size of this chip inductor and its dimension without directional influence on mountability and characteristics makes it suitable for mobile equipment that requires tight space both in dimension and in height.

## Applications

- Switching DC-DC power supplies
- Wearables
- Smartphone
- Tablet device
- Digital still camera
- HDD

## Benefits

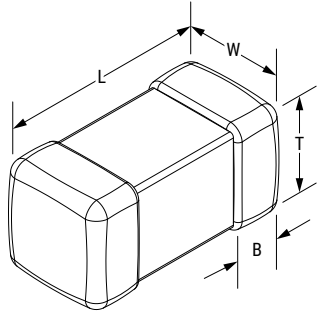
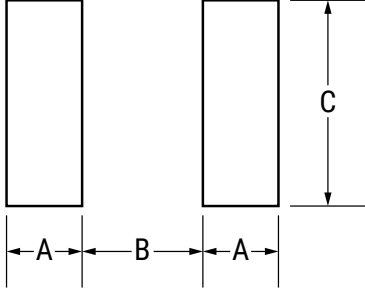
- High current
- Low DCR
- Wide inductance value from 1 – 680  $\mu$ H
- Rated current  $I_{sat}$  range from 0.065 – 2 A
- Rated current  $I_{rms}$  range from 0.06 – 1.44 A
- Operating temperature range from  $-40^{\circ}\text{C}$  to  $+105^{\circ}\text{C}$
- Low profile 1.45 – 2.7 mm maximum



## Part Number System

| L        | 0805                                                                             | C                             | 1R0                                                                                                                                                                                                                                      | M                                | DWI                                     | T               |
|----------|----------------------------------------------------------------------------------|-------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|-----------------------------------------|-----------------|
| Inductor | EIA Case Size (L" x W")                                                          | Specification                 | Inductance Value ( $\mu$ H)                                                                                                                                                                                                              | Inductance Tolerance             | Series                                  | Packaging       |
|          | 0805 (2012 in mm)<br>0806 (2016 in mm)<br>1007 (2518 in mm)<br>1210 (3225 in mm) | C = Commercial<br>R = Low DCR | R = decimal point<br><br>Examples:<br>1R0 = 1.0 $\mu$ H<br><br>The first two digits represent the inductance value. The third digit indicates the number of zeros to be added.<br><br>Examples:<br>100 = 10 $\mu$ H<br>101 = 100 $\mu$ H | K = $\pm 10\%$<br>M = $\pm 20\%$ | DWI = High current wire wound chip type | T = Tape & Reel |

## Dimensions – Millimeters (Inches)

| Dimensions - Millimeters (Inches)                                                 |                  |                               |                               |                               |                               | Land Pattern - Millimeters                                                          |     |      |
|-----------------------------------------------------------------------------------|------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------|-------------------------------------------------------------------------------------|-----|------|
|  |                  |                               |                               |                               |                               |  |     |      |
| EIA Size Code                                                                     | Metric Size Code | L Length                      | W Width                       | T Thickness                   | B Bandwidth                   | A                                                                                   | B   | C    |
| 0805                                                                              | 2012             | 2.00 (0.079)<br>±0.20 (0.008) | 1.25 (0.049)<br>±0.20 (0.008) | 1.25 (0.049)<br>±0.20 (0.008) | 0.50 (0.020)<br>±0.2 (0.008)  | 0.6                                                                                 | 1.0 | 1.45 |
| 0806                                                                              | 2016             | 2.00 (0.079)<br>±0.20 (0.008) | 1.60 (0.063)<br>±0.20 (0.008) | 1.60 (0.063)<br>±0.20 (0.008) | 0.50 (0.020)<br>±0.2 (0.008)  | 0.6                                                                                 | 1.0 | 1.8  |
| 1007                                                                              | 2518             | 2.50 (0.098)<br>±0.20 (0.008) | 1.80 (0.071)<br>±0.20 (0.008) | 1.80 (0.071)<br>±0.20 (0.008) | 0.50 (0.020)<br>±0.20 (0.008) | 0.6                                                                                 | 1.5 | 2.0  |
| 1210                                                                              | 3225             | 3.20 (0.126)<br>±0.20 (0.008) | 2.50 (0.098)<br>±0.20 (0.008) | 2.50 (0.098)<br>±0.20 (0.008) | 0.60 (0.024)<br>±0.30 (0.012) | 0.85                                                                                | 1.7 | 2.7  |

## Performance Characteristics

| Item                              | Performance Characteristics |
|-----------------------------------|-----------------------------|
| Operating Temperature Range       | -40°C to +105°C             |
| Rated Inductance Range            | 1 – 680 $\mu$ H             |
| Inductance Tolerance              | ±10% and ±20%               |
| Rated Current Isat Range          | 0.065 – 2 A                 |
| Rated Current Irms Range          | 0.06 – 1.44 A               |
| Rated DC Resistance Range Typical | 0.055 – 28 $\Omega$         |
| Rated DC Resistance Range Maximum | 0.0715 – 36.4 $\Omega$      |

## Environmental Compliance

All KEMET Chip Inductors are RoHS and REACH Compliant.



### Table 1 – Ratings & Part Number Reference

| Part Number    | Inductance (μH) | Inductance Tolerance | DC Resistance (Ω) Typical | DC Resistance (Ω) Maximum | Rated Current I <sub>rms</sub> (A) <sup>1</sup> | Rated Current I <sub>sat</sub> (A) <sup>2</sup> | Self-Resonance Frequency (MHz) Minimum | Inductance Measuring Frequency (MHz) |
|----------------|-----------------|----------------------|---------------------------|---------------------------|-------------------------------------------------|-------------------------------------------------|----------------------------------------|--------------------------------------|
| L0805C1R0MDWIT | 1.0             | ±20%                 | 0.19                      | 0.247                     | 0.84                                            | 0.7                                             | 100                                    | 7.96                                 |
| L0805C2R2MDWIT | 2.2             | ±20%                 | 0.33                      | 0.429                     | 0.64                                            | 0.53                                            | 70                                     | 7.96                                 |
| L0805C4R7MDWIT | 4.7             | ±20%                 | 0.5                       | 0.65                      | 0.52                                            | 0.36                                            | 45                                     | 7.96                                 |
| L0805C100MDWIT | 10              | ±20%                 | 1.2                       | 1.56                      | 0.34                                            | 0.24                                            | 40                                     | 2.52                                 |
| L0805C220KDWIT | 22              | ±10%                 | 3.7                       | 4.81                      | 0.19                                            | 0.17                                            | 16                                     | 2.52                                 |
| L0805C220MDWIT | 22              | ±20%                 | 3.7                       | 4.81                      | 0.19                                            | 0.17                                            | 16                                     | 2.52                                 |
| L0805C470MDWIT | 47              | ±20%                 | 5.8                       | 7.54                      | 0.15                                            | 0.12                                            | 11                                     | 2.52                                 |
| L0806C1R0MDWIT | 1.0             | ±20%                 | 0.1                       | 0.13                      | 1.1                                             | 1.1                                             | 100                                    | 7.96                                 |
| L0806C1R5MDWIT | 1.5             | ±20%                 | 0.15                      | 0.195                     | 1                                               | 1                                               | 80                                     | 7.96                                 |
| L0806C2R2MDWIT | 2.2             | ±20%                 | 0.2                       | 0.26                      | 0.72                                            | 0.75                                            | 70                                     | 7.96                                 |
| L0806C3R3MDWIT | 3.3             | ±20%                 | 0.27                      | 0.351                     | 0.61                                            | 0.6                                             | 55                                     | 7.96                                 |
| L0806C4R7MDWIT | 4.7             | ±20%                 | 0.37                      | 0.481                     | 0.53                                            | 0.55                                            | 45                                     | 7.96                                 |
| L0806C6R8MDWIT | 6.8             | ±20%                 | 0.59                      | 0.767                     | 0.45                                            | 0.45                                            | 38                                     | 7.96                                 |
| L0806C100KDWIT | 10              | ±10%                 | 0.82                      | 1.066                     | 0.35                                            | 0.38                                            | 32                                     | 2.52                                 |
| L0806C100MDWIT | 10              | ±20%                 | 0.82                      | 1.066                     | 0.35                                            | 0.38                                            | 32                                     | 2.52                                 |
| L0806C150MDWIT | 15              | ±20%                 | 1.2                       | 1.56                      | 0.3                                             | 0.3                                             | 28                                     | 2.52                                 |
| L0806C220KDWIT | 22              | ±10%                 | 1.8                       | 2.34                      | 0.24                                            | 0.25                                            | 16                                     | 2.52                                 |
| L0806C220MDWIT | 22              | ±20%                 | 1.8                       | 2.34                      | 0.24                                            | 0.25                                            | 16                                     | 2.52                                 |
| L0806C330MDWIT | 33              | ±20%                 | 2.8                       | 3.64                      | 0.22                                            | 0.22                                            | 14                                     | 2.52                                 |
| L0806C470KDWIT | 47              | ±10%                 | 4.3                       | 5.59                      | 0.15                                            | 0.15                                            | 11                                     | 2.52                                 |
| L0806C470MDWIT | 47              | ±20%                 | 4.3                       | 5.59                      | 0.15                                            | 0.15                                            | 11                                     | 2.52                                 |
| L0806C680MDWIT | 68              | ±20%                 | 7                         | 9.1                       | 0.13                                            | 0.13                                            | 10                                     | 2.52                                 |
| L0806C101KDWIT | 100             | ±10%                 | 8                         | 10.4                      | 0.11                                            | 0.11                                            | 8                                      | 0.796                                |
| L0806C101MDWIT | 100             | ±20%                 | 8                         | 10.4                      | 0.11                                            | 0.11                                            | 8                                      | 0.796                                |
| L1007C1R0MDWIT | 1.0             | ±20%                 | 0.08                      | 0.104                     | 1.2                                             | 1                                               | 100                                    | 7.96                                 |
| L1007C1R5MDWIT | 1.5             | ±20%                 | 0.11                      | 0.143                     | 1.19                                            | 0.95                                            | 80                                     | 7.96                                 |
| L1007C2R2MDWIT | 2.2             | ±20%                 | 0.13                      | 0.169                     | 1.1                                             | 0.89                                            | 68                                     | 7.96                                 |
| L1007C3R3MDWIT | 3.3             | ±20%                 | 0.16                      | 0.208                     | 1.02                                            | 0.73                                            | 54                                     | 7.96                                 |
| L1007C4R7MDWIT | 4.7             | ±20%                 | 0.2                       | 0.26                      | 0.92                                            | 0.68                                            | 41                                     | 7.96                                 |
| L1007C6R8MDWIT | 6.8             | ±20%                 | 0.3                       | 0.39                      | 0.74                                            | 0.55                                            | 38                                     | 7.96                                 |
| L1007C100KDWIT | 10              | ±10%                 | 0.36                      | 0.468                     | 0.68                                            | 0.48                                            | 30                                     | 2.52                                 |
| L1007C100MDWIT | 10              | ±20%                 | 0.36                      | 0.468                     | 0.68                                            | 0.48                                            | 30                                     | 2.52                                 |
| L1007C150KDWIT | 15              | ±10%                 | 0.65                      | 0.845                     | 0.5                                             | 0.35                                            | 23                                     | 2.52                                 |
| Part Number    | Inductance (μH) | Inductance Tolerance | DC Resistance (Ω) Typical | DC Resistance (Ω) Maximum | Rated Current I <sub>rms</sub> (A) <sup>1</sup> | Rated Current I <sub>sat</sub> (A) <sup>2</sup> | Self-Resonance Frequency (MHz) Minimum | Inductance Measuring Frequency (MHz) |

<sup>1</sup> T = 40 K rise at rated current at 20°C

<sup>2</sup> Inductance drop 30% at rated current at 20°C

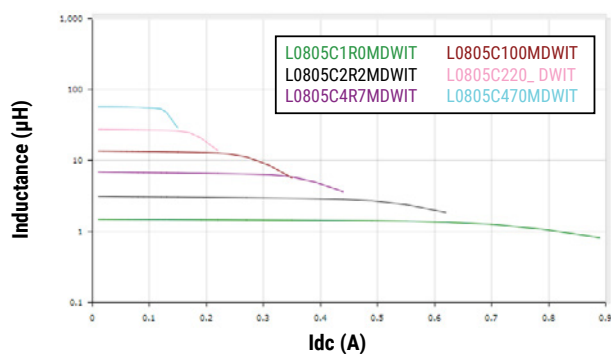
Table 1 – Ratings &amp; Part Number Reference

| Part Number    | Inductance (μH) | Inductance Tolerance | DC Resistance (Ω) Typical | DC Resistance (Ω) Maximum | Rated Current $I_{rms}$ (A) <sup>1</sup> | Rated Current $I_{sat}$ (A) <sup>2</sup> | Self-Resonance Frequency (MHz) Minimum | Inductance Measuring Frequency (MHz) |
|----------------|-----------------|----------------------|---------------------------|---------------------------|------------------------------------------|------------------------------------------|----------------------------------------|--------------------------------------|
| L1007C150MDWIT | 15              | ±20%                 | 0.65                      | 0.845                     | 0.5                                      | 0.35                                     | 23                                     | 2.52                                 |
| L1007C220KDWIT | 22              | ±10%                 | 0.77                      | 1.001                     | 0.46                                     | 0.32                                     | 19                                     | 2.52                                 |
| L1007C220MDWIT | 22              | ±20%                 | 0.77                      | 1.001                     | 0.46                                     | 0.32                                     | 19                                     | 2.52                                 |
| L1007C330KDWIT | 33              | ±10%                 | 1.5                       | 1.95                      | 0.32                                     | 0.27                                     | 15                                     | 2.52                                 |
| L1007C330MDWIT | 33              | ±20%                 | 1.5                       | 1.95                      | 0.32                                     | 0.27                                     | 15                                     | 2.52                                 |
| L1007C470KDWIT | 47              | ±10%                 | 1.9                       | 2.47                      | 0.29                                     | 0.24                                     | 12                                     | 2.52                                 |
| L1007C470MDWIT | 47              | ±20%                 | 1.9                       | 2.47                      | 0.29                                     | 0.24                                     | 12                                     | 2.52                                 |
| L1007C680KDWIT | 68              | ±10%                 | 2.8                       | 3.64                      | 0.2                                      | 0.2                                      | 9.5                                    | 2.52                                 |
| L1007C680MDWIT | 68              | ±20%                 | 2.8                       | 3.64                      | 0.2                                      | 0.2                                      | 9.5                                    | 2.52                                 |
| L1007C101KDWIT | 100             | ±10%                 | 3.7                       | 4.81                      | 0.17                                     | 0.16                                     | 9                                      | 0.796                                |
| L1007C101MDWIT | 100             | ±20%                 | 3.7                       | 4.81                      | 0.17                                     | 0.16                                     | 9                                      | 0.796                                |
| L1007C151KDWIT | 150             | ±10%                 | 6.1                       | 7.93                      | 0.13                                     | 0.14                                     | 7                                      | 0.796                                |
| L1007C151MDWIT | 150             | ±20%                 | 6.1                       | 7.93                      | 0.13                                     | 0.14                                     | 7                                      | 0.796                                |
| L1007C221KDWIT | 220             | ±10%                 | 8.4                       | 10.92                     | 0.11                                     | 0.12                                     | 5.5                                    | 0.796                                |
| L1007C221MDWIT | 220             | ±20%                 | 8.4                       | 10.92                     | 0.11                                     | 0.12                                     | 5.5                                    | 0.796                                |
| L1007C331KDWIT | 330             | ±10%                 | 12.3                      | 15.99                     | 0.09                                     | 0.1                                      | 4.5                                    | 0.796                                |
| L1007C331MDWIT | 330             | ±20%                 | 12.3                      | 15.99                     | 0.09                                     | 0.1                                      | 4.5                                    | 0.796                                |
| L1007C471KDWIT | 470             | ±10%                 | 22                        | 28.6                      | 0.07                                     | 0.08                                     | 3.5                                    | 0.796                                |
| L1007C471MDWIT | 470             | ±20%                 | 22                        | 28.6                      | 0.07                                     | 0.08                                     | 3.5                                    | 0.796                                |
| L1007C681KDWIT | 680             | ±10%                 | 28                        | 36.4                      | 0.06                                     | 0.07                                     | 3                                      | 0.796                                |
| L1007C681MDWIT | 680             | ±20%                 | 28                        | 36.4                      | 0.06                                     | 0.07                                     | 3                                      | 0.796                                |
| L1210R1R0MDWIT | 1.0             | ±20%                 | 0.06                      | 0.072                     | 1.44                                     | 2                                        | 250                                    | 0.1                                  |
| L1210R1R5MDWIT | 1.5             | ±20%                 | 0.06                      | 0.078                     | 1.31                                     | 2                                        | 250                                    | 0.1                                  |
| L1210R2R2MDWIT | 2.2             | ±20%                 | 0.08                      | 0.104                     | 1.13                                     | 2                                        | 190                                    | 0.1                                  |
| L1210R3R3MDWIT | 3.3             | ±20%                 | 0.1                       | 0.124                     | 1.04                                     | 2                                        | 160                                    | 0.1                                  |
| L1210R4R7MDWIT | 4.7             | ±20%                 | 0.1                       | 0.13                      | 1.01                                     | 1.25                                     | 70                                     | 0.1                                  |
| L1210R6R8MDWIT | 6.8             | ±20%                 | 0.12                      | 0.156                     | 0.94                                     | 0.95                                     | 50                                     | 0.1                                  |
| L1210R100KDWIT | 10              | ±10%                 | 0.13                      | 0.173                     | 0.9                                      | 0.9                                      | 23                                     | 0.1                                  |
| L1210R100MDWIT | 10              | ±20%                 | 0.13                      | 0.173                     | 0.9                                      | 0.9                                      | 23                                     | 0.1                                  |
| L1210R150KDWIT | 15              | ±10%                 | 0.2                       | 0.254                     | 0.85                                     | 0.73                                     | 20                                     | 0.1                                  |
| L1210R150MDWIT | 15              | ±20%                 | 0.2                       | 0.254                     | 0.85                                     | 0.73                                     | 20                                     | 0.1                                  |
| L1210R220KDWIT | 22              | ±10%                 | 0.27                      | 0.351                     | 0.78                                     | 0.62                                     | 17                                     | 0.1                                  |
| L1210R220MDWIT | 22              | ±20%                 | 0.27                      | 0.351                     | 0.78                                     | 0.62                                     | 17                                     | 0.1                                  |
| L1210R330KDWIT | 33              | ±10%                 | 0.41                      | 0.533                     | 0.57                                     | 0.5                                      | 13                                     | 0.1                                  |
| L1210R330MDWIT | 33              | ±20%                 | 0.41                      | 0.533                     | 0.57                                     | 0.5                                      | 13                                     | 0.1                                  |
| L1210R470KDWIT | 47              | ±10%                 | 0.67                      | 0.871                     | 0.48                                     | 0.39                                     | 10                                     | 0.1                                  |
| L1210R470MDWIT | 47              | ±20%                 | 0.67                      | 0.871                     | 0.48                                     | 0.39                                     | 10                                     | 0.1                                  |
| L1210R680KDWIT | 68              | ±10%                 | 1                         | 1.3                       | 0.41                                     | 0.32                                     | 8                                      | 0.1                                  |
| L1210R680MDWIT | 68              | ±20%                 | 1                         | 1.3                       | 0.41                                     | 0.32                                     | 8                                      | 0.1                                  |
| L1210R101KDWIT | 100             | ±10%                 | 1.4                       | 1.82                      | 0.34                                     | 0.27                                     | 6                                      | 0.1                                  |
| L1210R101MDWIT | 100             | ±20%                 | 1.4                       | 1.82                      | 0.34                                     | 0.27                                     | 6                                      | 0.1                                  |
| Part Number    | Inductance (μH) | Inductance Tolerance | DC Resistance (Ω) Typical | DC Resistance (Ω) Maximum | Rated Current $I_{rms}$ (A) <sup>1</sup> | Rated Current $I_{sat}$ (A) <sup>2</sup> | Self-Resonance Frequency (MHz) Minimum | Inductance Measuring Frequency (MHz) |

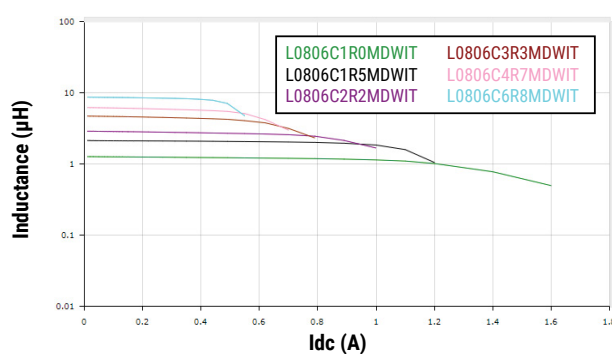
<sup>1</sup> T = 40 K rise at rated current at 20°C<sup>2</sup> Inductance drop 30% at rated current at 20°C

## DC-Superposed Characteristics

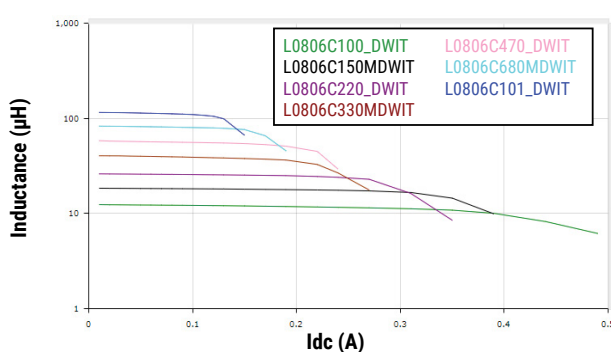
L0805



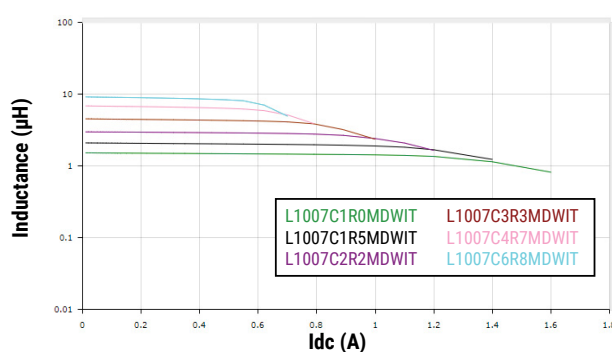
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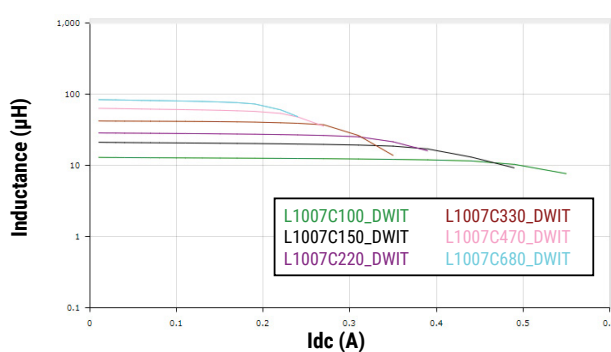
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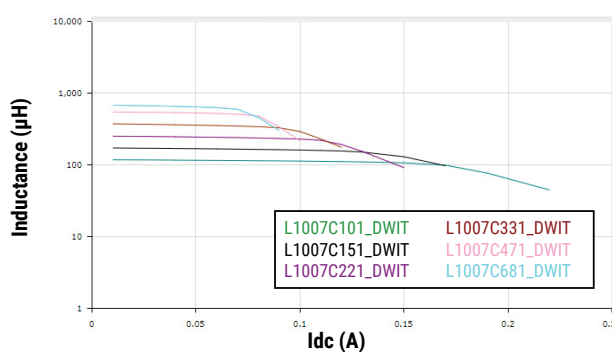
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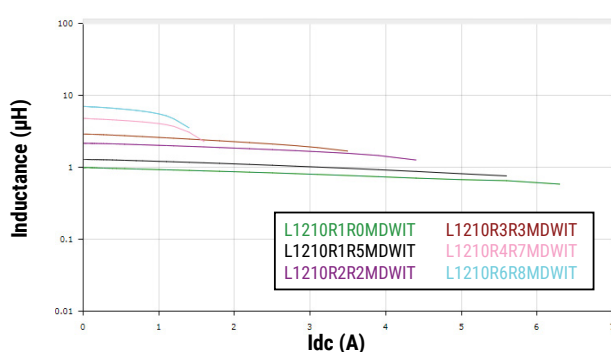
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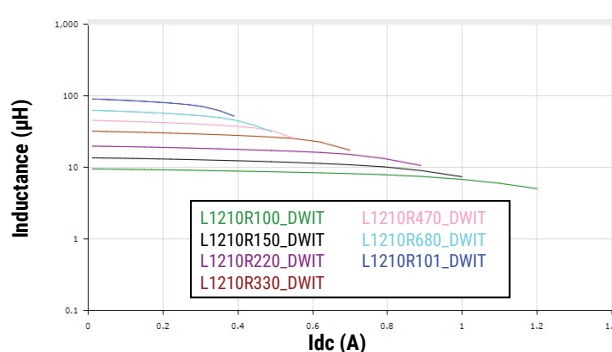
L1007



L1210

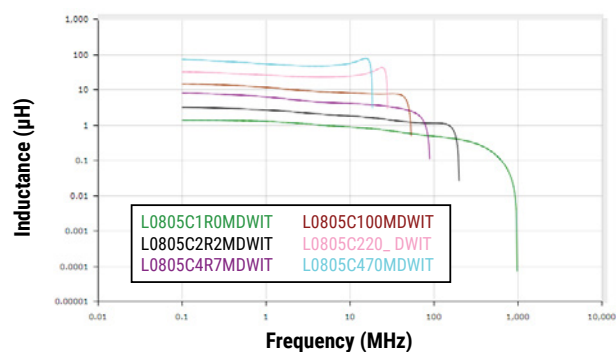


L1210

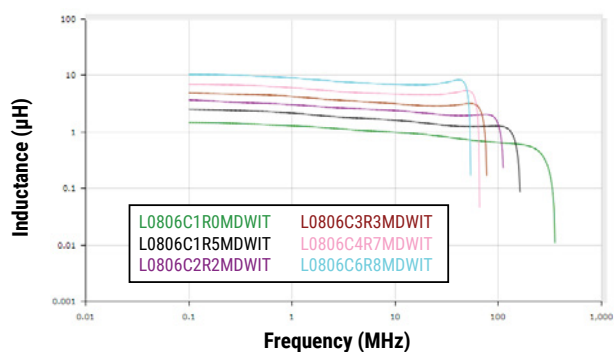


## Inductance versus Frequency Characteristics

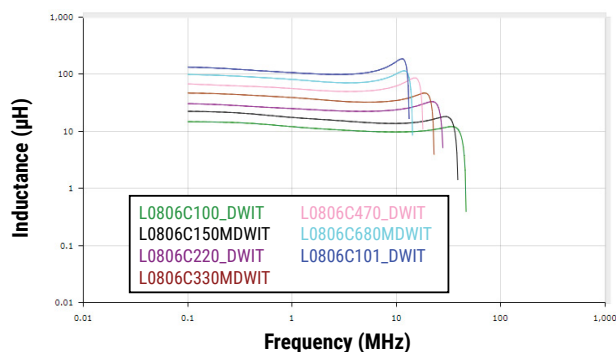
L0805



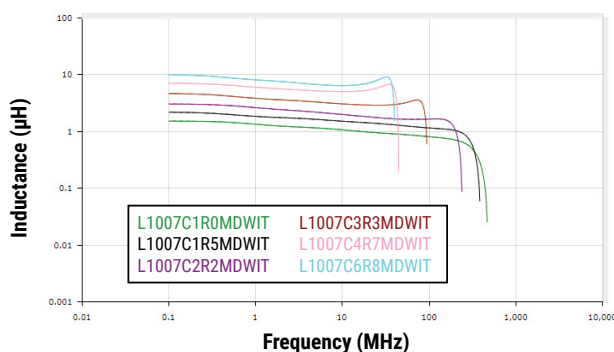
L0806



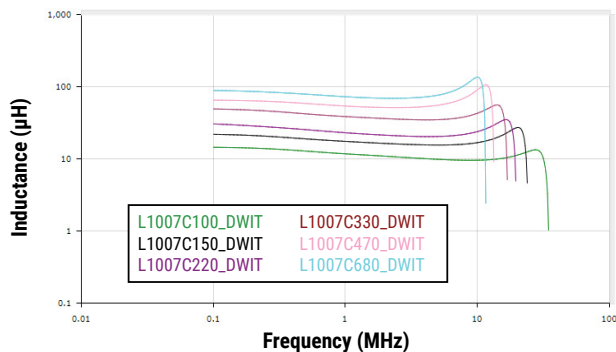
L0806



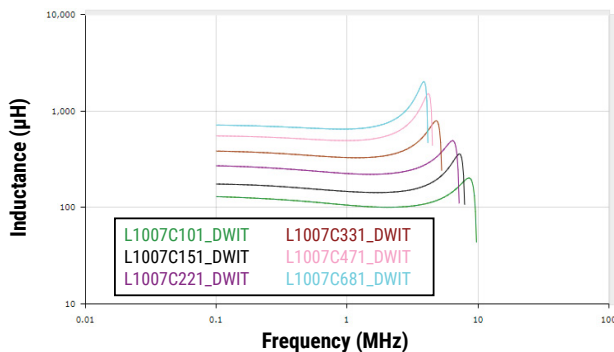
L1007



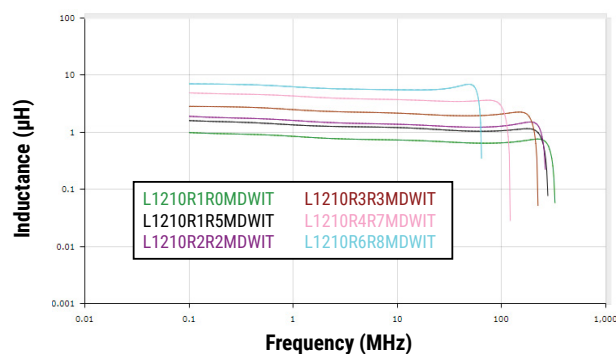
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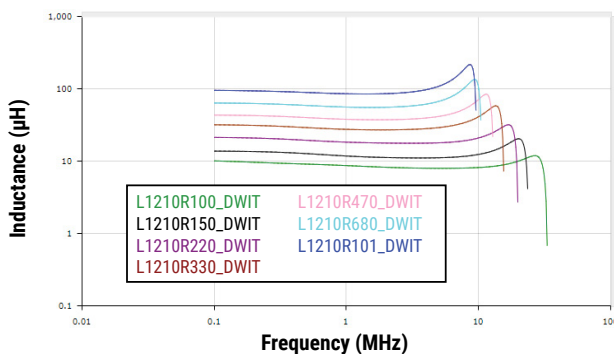
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L1210

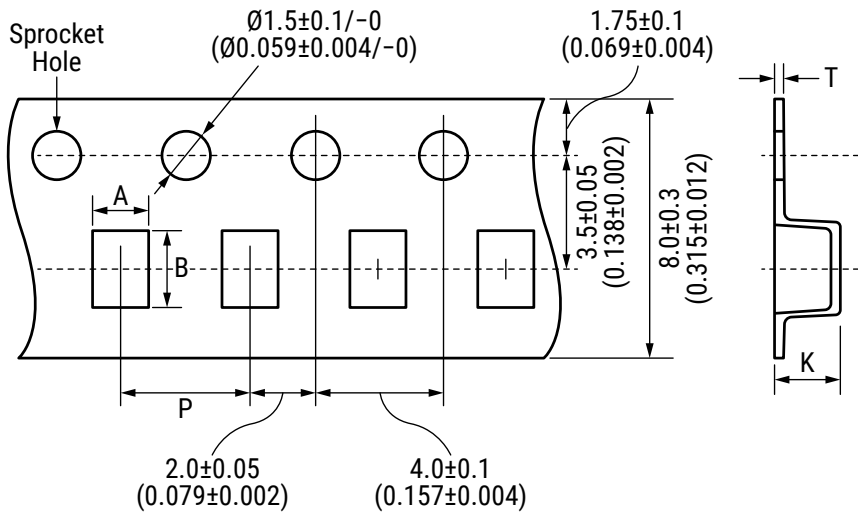


L1210



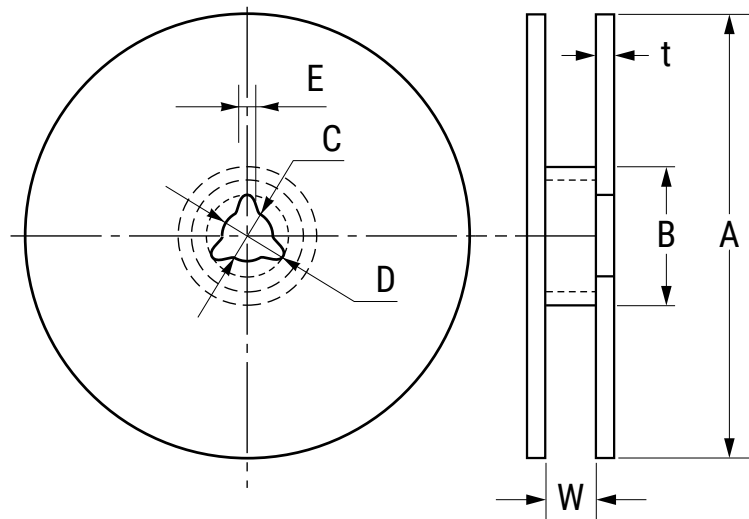
## Taping Specifications - Millimeters (Inches)

## 0805, 0806, 1007 and 1210 Embossed (Plastic) Tape 8mm Width



| EIA Case Size | Metric Case Size | Height | Reel Quantity |           | Cavity    |           | Pitch     | Thickness  |         |
|---------------|------------------|--------|---------------|-----------|-----------|-----------|-----------|------------|---------|
|               |                  |        |               |           | A         | B         | P         | T          | K       |
| 0805          | 2012             | 1.25   | 3,000         | Nominal   | 1.45      | 2.25      | 4.00      | 0.25       | 1.45    |
|               |                  |        |               | Tolerance | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.05$ | Maximum |
| 0806          | 2016             | 1.6    | 2,000         | Nominal   | 1.75      | 2.10      | 4.00      | 0.30       | 1.90    |
|               |                  |        |               | Tolerance | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.05$ | Maximum |
| 1007          | 2518             | 1.8    | 2,000         | Nominal   | 2.15      | 2.70      | 4.00      | 0.30       | 2.20    |
|               |                  |        |               | Tolerance | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.05$ | Maximum |
| 1210          | 3225             | 2.5    | 1,000         | Nominal   | 2.80      | 3.50      | 4.00      | 0.30       | 4.00    |
|               |                  |        |               | Tolerance | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.1$ | $\pm 0.05$ | Maximum |

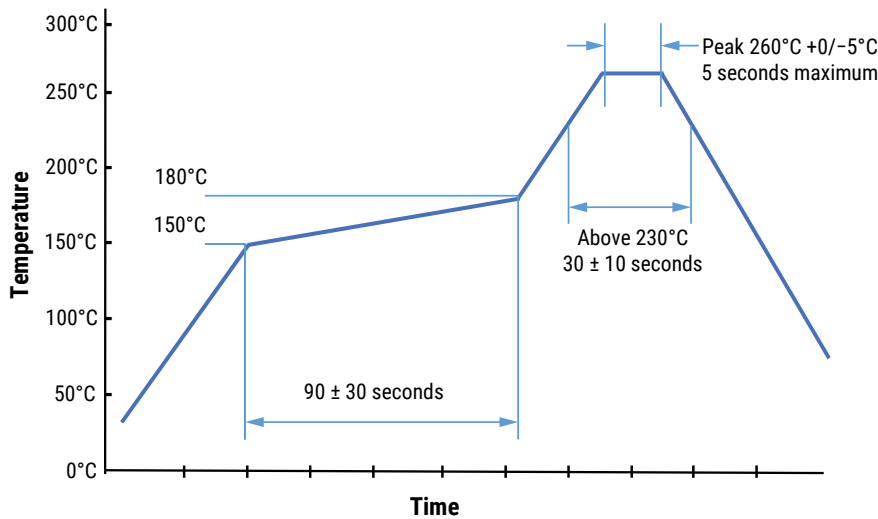
## Reel Specifications - Millimeters



| Series |           | Dimensions - Millimeters |         |       |       |      |         |      |
|--------|-----------|--------------------------|---------|-------|-------|------|---------|------|
|        |           | A                        | B       | C     | D     | E    | t       | W    |
| L-DWI  | Nominal   | ø180.0                   | ø60.0   | ø13.0 | ø21.0 | 2.0  | 2.5     | 10.0 |
|        | Tolerance | Maximum                  | Minimum | ±0.5  | ±0.8  | ±0.5 | Maximum | ±1.5 |



## Recommended Reflow Soldering Profile



## Handling Precautions

Inductors should be stored in normal working environments. While the inductors themselves are quite robust in other environments, exposure to high temperatures, high humidity, corrosive atmospheres, and long-term storage degrades solderability.

KEMET recommends that maximum storage temperature not exceed  $40^{\circ}\text{C}$  and maximum storage humidity not exceed 70% relative humidity. Atmospheres should be free of chlorine-bearing and sulfur-bearing compounds. Temperature fluctuations should be minimized to avoid condensation on the parts.

For optimized solderability, inductor stock should be used promptly, preferably within six months of receipt.

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