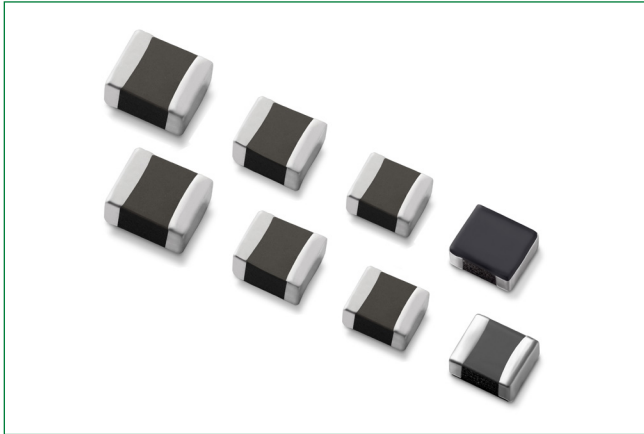


LPWI Series

Surface Mount



Description

The Littelfuse LPWI Series provides voltage stabilization in a compact design. With its low losses, high efficiency, high durability, and excellent temperature saturation characteristics, the LPWI Series is ideal for small battery operated applications.

Features & Benefits

- Thin film photolithography technology
- Compact and low profile
- Metal alloy composite material
- High current capability
- High efficiency
- Low DC resistance
- Magnetically shielded
- Space saving
- Energy efficient
- Reliable

Additional Information



Resources



Accessories



Samples

Applications

- DC-DC converters and power modules in general use electronic equipment
- Smartphone and tablets
- Wearable devices
- Virtual and augmented reality equipments
- Powerbanks
- Printers

LPWI Series

Surface Mount

Electrical Characteristics

| Part Number | Size (mm) | Size (Inch) | Thickness (mm) | Inductance@ 1MHz [uH] | DC Resistance [mΩ] | | Rated DC Current (A) | | | |
|-----------------|-----------|-------------|----------------|-----------------------|--------------------|------|----------------------|------|----------------|------|
| | | | | | Typ. | Max. | Isat, ΔL/L=30% | | Itemp, ΔT=40°C | |
| | | | | | | | Typ. | Max. | Typ. | Max. |
| LPWI160808SR24T | 1608 | 0603 | 0.8 | 0.24 ± 20% | 30 | 40 | 3.2 | 2.8 | 3.2 | 2.8 |
| LPWI160808SR47T | 1608 | 0603 | 0.8 | 0.47 ± 20% | 35 | 50 | 2.8 | 2.5 | 3.0 | 2.7 |
| LPWI160808HR47T | 1608 | 0603 | 0.8 | 0.47 ± 20% | 37 | 45 | 3.4 | 3.1 | 3.2 | 2.9 |
| LPWI160808S1R0T | 1608 | 0603 | 0.8 | 1.00 ± 20% | 130 | 150 | 2.0 | 1.7 | 2.0 | 1.7 |
| LPWI160808H1R0T | 1608 | 0603 | 0.8 | 1.00 ± 20% | 115 | 135 | 2.2 | 2.0 | 2.0 | 1.7 |
| LPWI201208SR24T | 2012 | 0805 | 0.8 | 0.24 ± 20% | 17 | 22 | 4.8 | 4.5 | 4.1 | 3.9 |
| LPWI201208SR47T | 2012 | 0805 | 0.8 | 0.47 ± 20% | 30 | 35 | 4.2 | 4.0 | 4.0 | 3.8 |
| LPWI201208HR47T | 2012 | 0805 | 0.8 | 0.47 ± 20% | 30 | 35 | 5.0 | 4.7 | 4.0 | 3.8 |
| LPWI201208SR68T | 2012 | 0805 | 0.8 | 0.68 ± 20% | 58 | 65 | 3.4 | 3.1 | 2.8 | 2.5 |
| LPWI201208S1R0T | 2012 | 0805 | 0.8 | 1.00 ± 20% | 60 | 65 | 3.4 | 3.1 | 3.0 | 2.7 |
| LPWI201208S1R5T | 2012 | 0805 | 0.8 | 1.50 ± 20% | 110 | 120 | 2.3 | 2.0 | 2.1 | 1.9 |
| LPWI201210SR47T | 2012 | 0805 | 1.0 | 0.47 ± 20% | 25 | 33 | 4.7 | 4.5 | 4.2 | 4.0 |
| LPWI201210HR47T | 2012 | 0805 | 1.0 | 0.47 ± 20% | 25 | 28 | 5.4 | 4.9 | 4.5 | 4.3 |
| LPWI201210S1R0T | 2012 | 0805 | 1.0 | 1.00 ± 20% | 50 | 60 | 3.5 | 3.2 | 3.0 | 2.7 |
| LPWI201608NR24T | 2016 | 0806 | 0.8 | 0.24 ± 20% | 20 | 25 | 5.0 | 4.6 | 4.2 | 3.8 |
| LPWI201608HR47T | 2016 | 0806 | 0.8 | 0.47 ± 20% | 21 | 27 | 5.0 | 4.7 | 4.1 | 4.0 |
| LPWI201608H1R0T | 2016 | 0806 | 0.8 | 1.00 ± 20% | 45 | 50 | 3.9 | 3.6 | 3.5 | 3.2 |
| LPWI201608S1R0T | 2016 | 0806 | 0.8 | 1.00 ± 20% | 50 | 65 | 3.3 | 2.9 | 3.0 | 2.6 |
| LPWI201608S1R0T | 2016 | 0806 | 0.8 | 1.50 ± 20% | 90 | 120 | 2.9 | 2.3 | 2.1 | 1.9 |
| LPWI201608S2R2T | 2016 | 0806 | 0.8 | 2.20 ± 20% | 130 | 150 | 2.0 | 1.6 | 1.9 | 1.5 |
| LPWI201610SR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 35 | 40 | 4.2 | 3.5 | 3.7 | 3.2 |
| LPWI201610HR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 20 | 25 | 5.0 | 4.5 | 4.2 | 3.6 |
| LPWI201610BR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 21 | 27 | 5.7 | 5.5 | 5.2 | 4.8 |
| LPWI201610SR68T | 2016 | 0806 | 1.0 | 0.68 ± 20% | 40 | 50 | 4.1 | 3.7 | 3.5 | 3.1 |
| LPWI201610S1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 58 | 65 | 3.2 | 2.8 | 3.0 | 2.6 |
| LPWI201610H1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 40 | 45 | 3.9 | 3.6 | 3.1 | 2.7 |
| LPWI201610B1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 40 | 43 | 4.2 | 4.0 | 3.5 | 3.2 |
| LPWI201610H1R5T | 2016 | 0806 | 1.0 | 1.50 ± 20% | 85 | 100 | 2.7 | 2.5 | 2.5 | 2.3 |
| LPWI201610B2R2T | 2016 | 0806 | 1.0 | 2.20 ± 20% | 117 | 140 | 2.6 | 2.4 | 2.1 | 1.9 |
| LPWI201610S2R2T | 2016 | 0806 | 1.0 | 2.20 ± 20% | 135 | 150 | 2.2 | 1.8 | 2.3 | 1.9 |
| LPWI201610H2R2T | 2016 | 0806 | 1.0 | 2.20 ± 20% | 115 | 135 | 2.7 | 2.5 | 2.4 | 2.2 |
| LPWI252010SR33T | 2520 | 1008 | 1.0 | 0.33 ± 20% | 20 | 25 | 6.8 | 6.3 | 5.8 | 5.3 |
| LPWI252010BR47T | 2520 | 1008 | 1.0 | 0.47 ± 20% | 21 | 27 | 6.4 | 6.0 | 5.2 | 4.6 |
| LPWI252010SR47T | 2520 | 1008 | 1.0 | 0.47 ± 20% | 25 | 30 | 6.0 | 5.5 | 4.1 | 3.7 |
| LPWI252010HR47T | 2520 | 1008 | 1.0 | 0.47 ± 20% | 22 | 27 | 6.6 | 6.0 | 5.2 | 4.4 |
| LPWI252010NR68T | 2520 | 1008 | 1.0 | 0.68 ± 20% | 32 | 37 | 5.5 | 5.0 | 4.1 | 3.5 |
| LPWI252010B1R0T | 2520 | 1008 | 1.0 | 1.00 ± 20% | 33 | 36 | 5.0 | 4.7 | 4.3 | 4.0 |
| LPWI252010S1R0T | 2520 | 1008 | 1.0 | 1.00 ± 20% | 40 | 50 | 4.2 | 3.8 | 3.5 | 3.1 |
| LPWI252010H1R0T | 2520 | 1008 | 1.0 | 1.00 ± 20% | 35 | 45 | 4.6 | 4.1 | 3.8 | 3.5 |
| LPWI252010S1R5T | 2520 | 1008 | 1.0 | 1.50 ± 20% | 65 | 80 | 3.5 | 3.1 | 2.8 | 2.5 |
| LPWI252010B2R2T | 2520 | 1008 | 1.0 | 2.20 ± 20% | 85 | 95 | 3.5 | 3.1 | 2.5 | 2.3 |
| LPWI252010S2R2T | 2520 | 1008 | 1.0 | 2.20 ± 20% | 100 | 110 | 3.0 | 2.5 | 2.5 | 2.3 |
| LPWI252010H2R2T | 2520 | 1008 | 1.0 | 2.20 ± 20% | 90 | 97 | 3.5 | 3.1 | 2.5 | 2.3 |
| LPWI252010S3R3T | 2520 | 1008 | 1.0 | 3.30 ± 20% | 155 | 170 | 2.2 | 2.0 | 1.9 | 1.6 |
| LPWI252010S4R7T | 2520 | 1008 | 1.0 | 4.70 ± 20% | 230 | 245 | 1.9 | 1.6 | 1.8 | 1.5 |

LPWI Series

Surface Mount

Electrical Characteristics (Continued)

| Part Number | Size (mm) | Size (Inch) | Thickness (mm) | Inductance@ 1MHz [uH] | DC Resistance [mΩ] | | Rated DC Current (A) | | | |
|------------------|-----------|-------------|----------------|-----------------------|--------------------|------|----------------------|------|----------------|------|
| | | | | | Typ. | Max. | Isat, ΔL/L=30% | | Itemp, ΔT=40°C | |
| | | | | | | | Typ. | Max. | Typ. | Max. |
| LPWI201610TR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 20 | 25 | 5.3 | 4.8 | 4.2 | 3.6 |
| LPWI201610TAR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 35 | 40 | 4.2 | 3.5 | 3.7 | 3.2 |
| LPWI201610TBR47T | 2016 | 0806 | 1.0 | 0.47 ± 20% | 21 | 27 | 6.0 | 5.7 | 5.2 | 4.8 |
| LPWI201610T1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 58 | 65 | 3.2 | 2.8 | 3.0 | 2.6 |
| LPWI201610TA1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 40 | 45 | 3.9 | 3.6 | 3.1 | 2.7 |
| LPWI201610TB1R0T | 2016 | 0806 | 1.0 | 1.00 ± 20% | 43 | 46 | 4.2 | 4.0 | 3.5 | 3.2 |

Note: These PNs have top cover

Test Conditions:

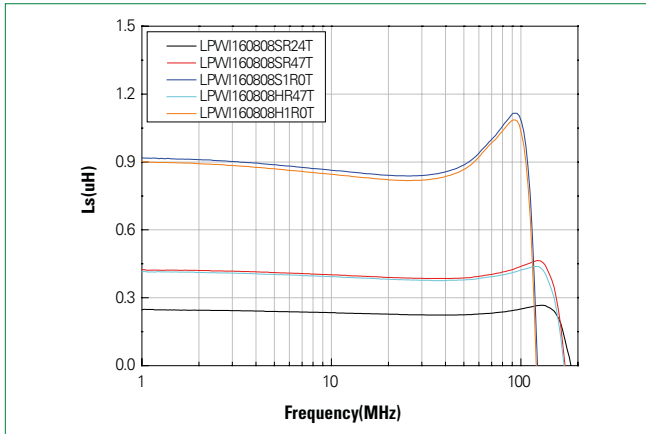
- Inductance measuring equipment : 4287A RF LCR meter, (Agilent) at 1MHz , 0.5V
- DC Resistance measuring equipment : 4338B Milliohm meter (Agilent)
- Withstand voltage : Absolute maximum voltage DC 20V
- Rated Current "ΔL/L=30%" : Based on the inductance change rate (30% below the initial L value)
- Rated Current "ΔT=40°C" : Based on the temp. increase (40°C by self heating at. room-temperature)

LPWI Series

Surface Mount

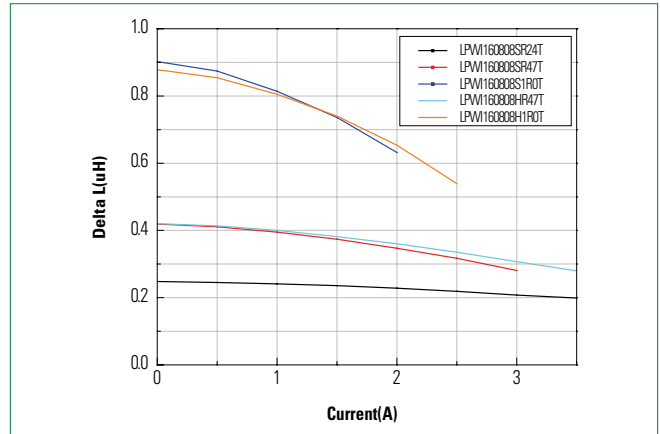
Inductive Vs. Frequency Characteristics

1.6 x 0.8 x 0.8 mm size



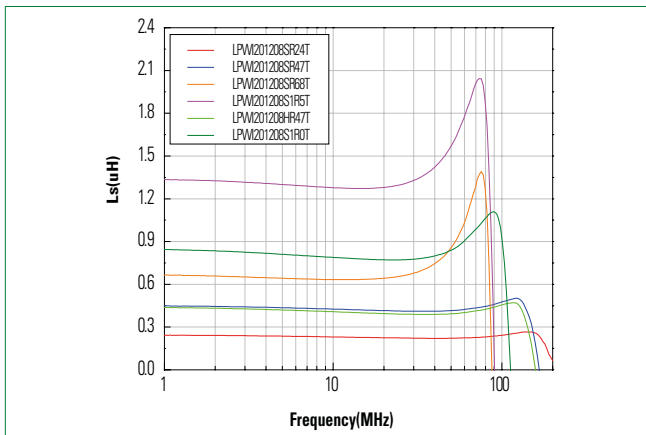
Inductive Vs. DC Current Characteristics

1.6 x 0.8 x 0.8 mm size



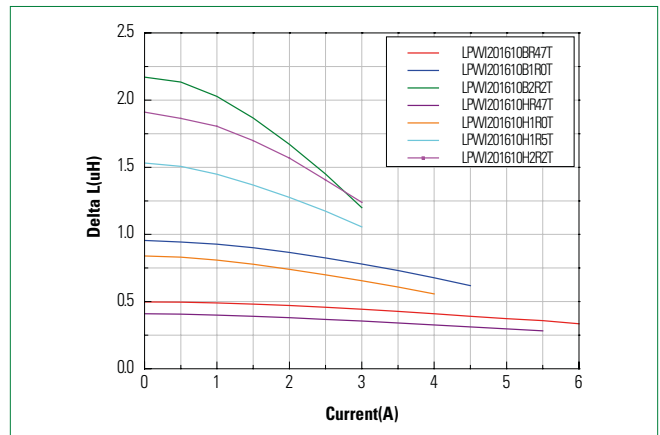
Inductive Vs. Frequency Characteristics

2.0 x 1.2 x 0.8 mm size



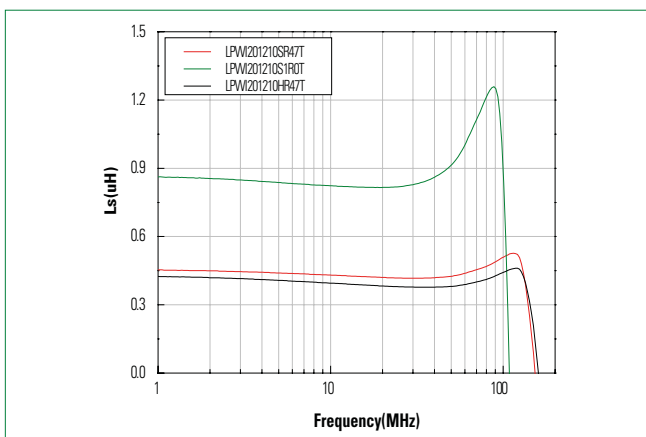
Inductive Vs. DC Current Characteristics

2.0 x 1.2 x 0.8 mm size



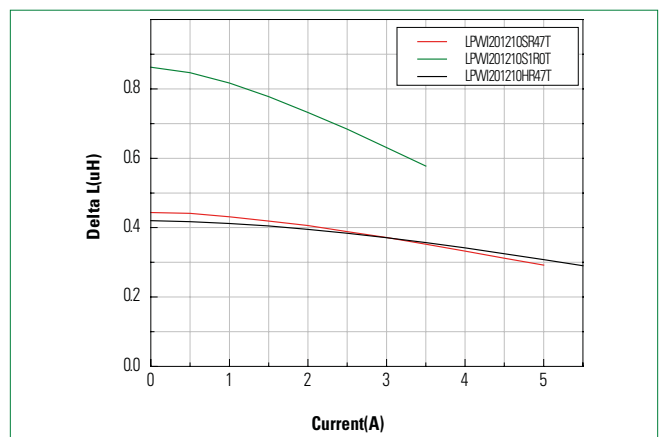
Inductive Vs. Frequency Characteristics

2.0 x 1.2 x 1.0 mm size



Inductive Vs. DC Current Characteristics

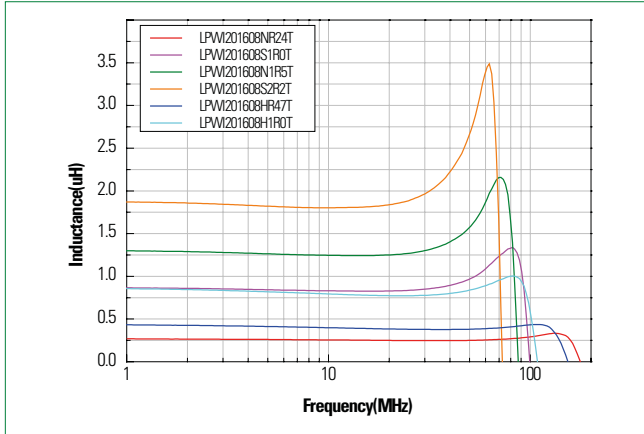
2.0 x 1.2 x 1.0 mm size



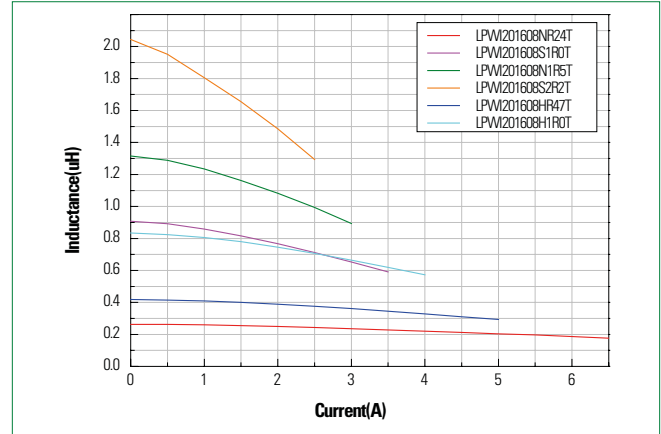
LPWI Series

Surface Mount

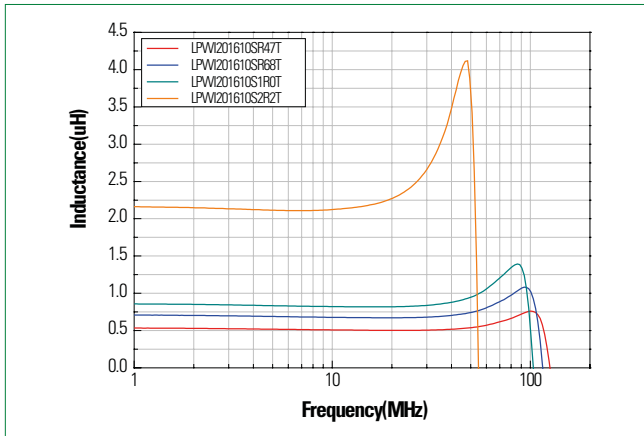
Inductive Vs. Frequency Characteristics
2.0 x 1.6 x 0.8 mm size



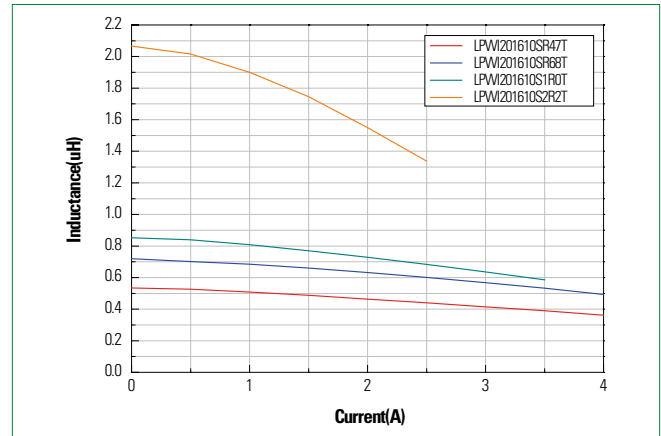
Inductive Vs. DC Current Characteristics
2.0 x 1.6 x 0.8 mm size



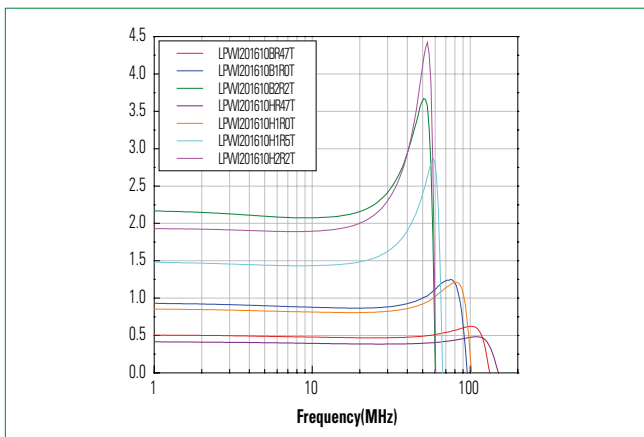
Inductive Vs. Frequency Characteristics
2.0 x 1.6 x 1.0 mm size



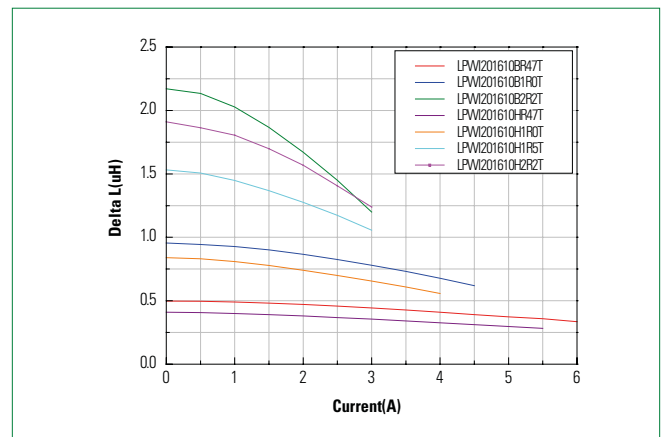
Inductive Vs. DC Current Characteristics
2.0 x 1.6 x 1.0 mm size



Inductive Vs. Frequency Characteristics
2.0 x 1.6 x 1.0 mm size (High Current)



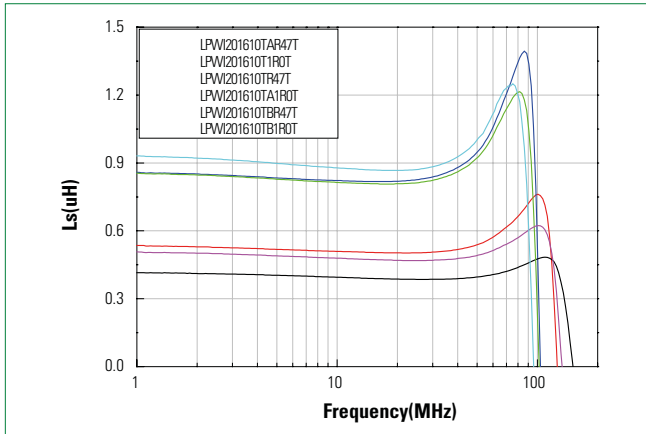
Inductive Vs. DC Current Characteristics
2.0 x 1.6 x 1.0 mm size (High Current)



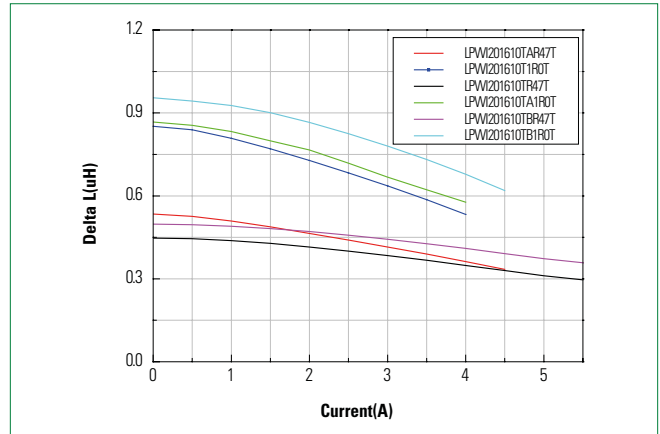
LPWI Series

Surface Mount

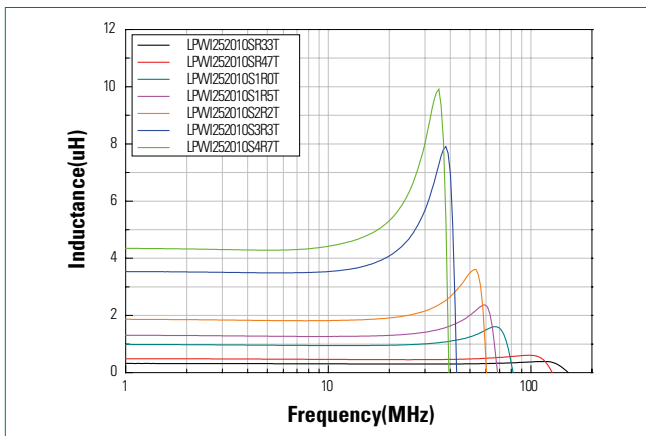
Inductive Vs. Frequency Characteristics
2.0 x 1.6 x 1.0 mm size (top cover type)



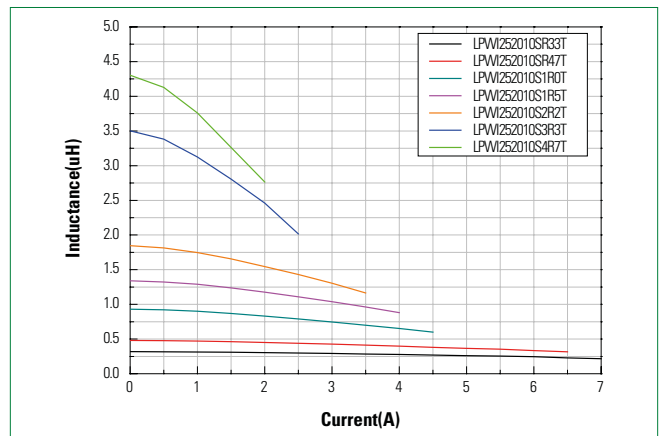
Inductive Vs. DC Current Characteristics
2.0 x 1.6 x 1.0 mm size (top cover type)



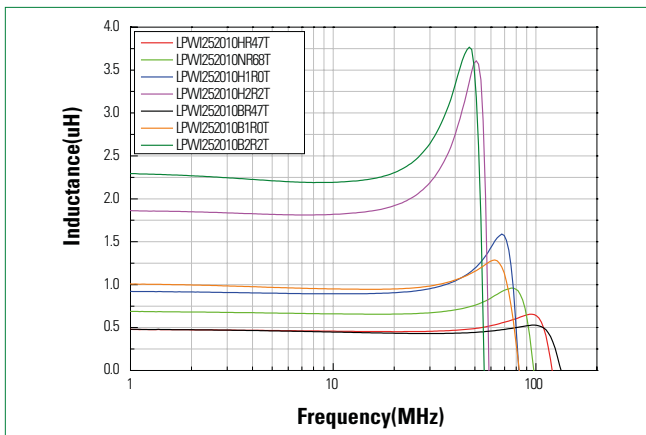
Inductive Vs. Frequency Characteristics
2.5 x 2.0 x 1.0 mm size



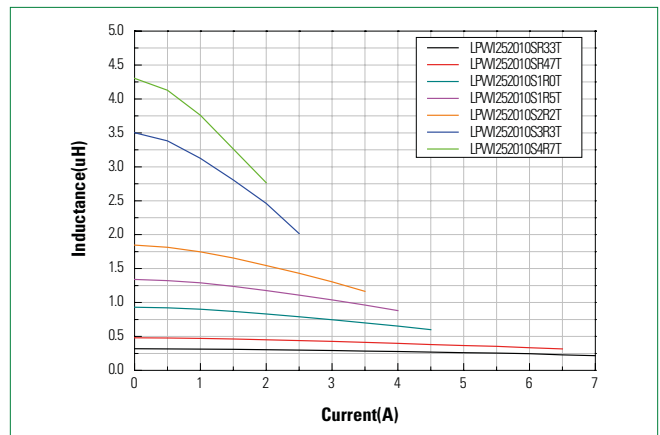
Inductive Vs. DC Current Characteristics
2.5 x 2.0 x 1.0 mm size



Inductive Vs. Frequency Characteristics
2.5 x 2.0 x 1.0 mm size (High Current)



Inductive Vs. DC Current Characteristics
2.5 x 2.0 x 1.0 mm size (High Current)



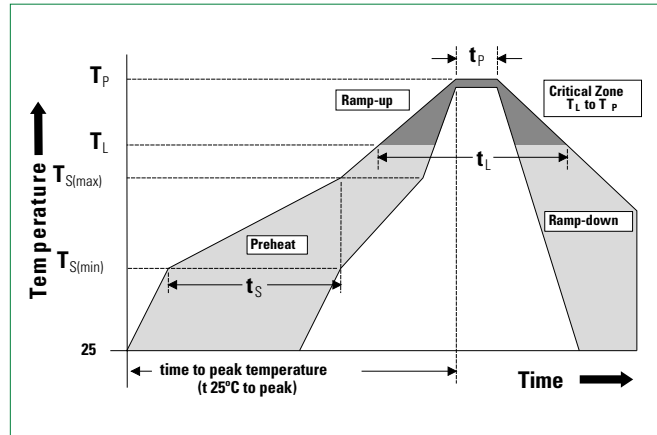
Test Conditions:
 ■ Test Equipment: 4991A RF Impedance Analyzer (Agilent)
 ■ Test Frequency: 1MHz ~ 200MHz

LPWI Series

Surface Mount

Inductive Vs. Frequency Characteristics

| | | |
|--|------------------------------------|-------------------|
| Reflow Condition | Pb-free assembly | |
| Pre Heat | - Temperature Min ($T_{s(min)}$) | 160°C |
| | - Temperature Max ($T_{s(max)}$) | 185°C |
| | - Time (Min to Max) (t_s) | 100 – 120 seconds |
| Average Ramp-up Rate (Liquidus Temp (T_L) to peak) | 1°C/second max | |
| $T_{s(max)}$ to TL - Ramp-up Rate | 1°C/second max | |
| Reflow | - Temperature (T_L) (Liquidus) | 220°C |
| | - Temperature (t_L) | 30 – 50 seconds |
| Peak Temperature (T_p) | 260°C | |
| Time within 5°C of actual peak Temperature (t_p) | 5~10 seconds | |
| Ramp-down Rate | 2°C/second max | |
| Time 25°C to Peak Temperature (T_p) | 4 minutes max | |
| Do not exceed | 260°C | |
| Wave Soldering | 260°C, 10 sec. max | |



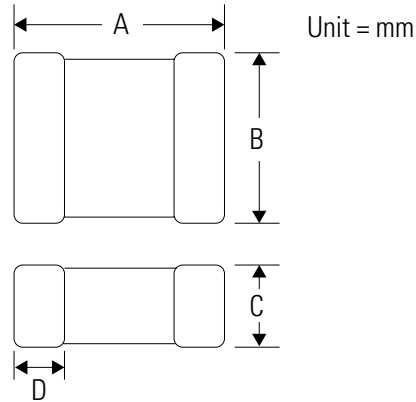
Inductive Vs. Frequency Characteristics

| | |
|----------------------------------|--|
| Lead Pull Strength | 5N |
| Solderability | 260°C, ≤10s (Reflow), Max 380°C, ≤5s (Soldering iron) |
| Soldering Heat Resistance | Max 260°C 10sec (Wave), Max Temperature: Max 380°C (Max 5sec) |
| Operating Temperature | -40°C ~ + 125°C |
| Climatic Category | -40°C ~ + 85°C/8 days |
| Stock Conditions | -10°C ~ + 40°C RH, ≤ 70% |
| Vibration Resistance | 5 g's for 20 minutes, 12 cycles each of 3 orientations |

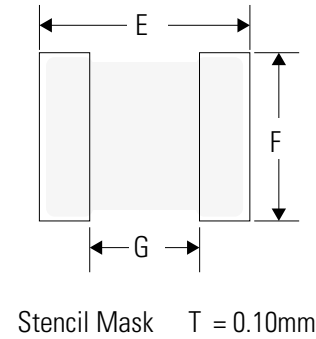
LPWI Series

Surface Mount

Dimensions



Recommended Footprint and Stencil Mask

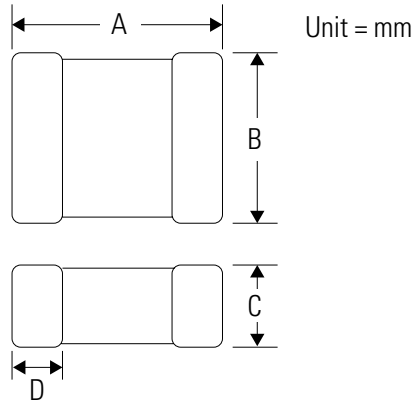


| Part Number | A | B | C (max.) | D | E | F | G |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LPWI160808SR24T | 1.60±0.20 | 0.80±0.20 | 0.80 | 0.30±0.20 | 1.80+0.10 | 1.00+0.10 | 0.80±0.10 |
| LPWI160808SR47T | | | | | | | |
| LPWI160808S1R0T | | | | | | | |
| LPWI160808HR47T | 1.70±0.10 | 0.90±0.10 | 0.7±0.10 | 0.30±0.20 | 1.80+0.10 | 1.00+0.10 | 0.80±0.10 |
| LPWI160808H1R0T | | | | | | | |
| LPWI201208SR24T | | | | | | | |
| LPWI201208SR68T | 2.00±0.20 | 1.20±0.20 | 0.8 | 0.50±0.30 | 2.40+0.10 | 1.45+0.10 | 0.80±0.10 |
| LPWI201208S1R5T | | | | | | | |
| LPWI201208SR47T | | | | | | | |
| LPWI201208S1R0T | | | | | | | |
| LPWI201208HR47T | | | | | | | |
| LPWI201210SR47T | 2.00±0.20 | 1.20±0.20 | 1.00 | 0.50±0.30 | 2.40+0.10 | 1.45+0.10 | 0.80±0.10 |
| LPWI201210HR47T | | | | | | | |
| LPWI201210S1R0T | | | | | | | |
| LPWI201608LR24T | 2.00±0.20 | 1.60±0.20 | 0.8 | 0.40±0.10 | 2.40+0.10 | 1.80+0.10 | 1.00±0.10 |
| LPWI201608NR24T | | | | | | | |
| LPWI201608N1R5T | | | | | | | |
| LPWI201608HR47T | | | | | | | |
| LPWI201608H1R0T | | | | | | | |
| LPWI201608S1R0T | 2.00±0.20 | 1.60±0.20 | 0.70±0.10 | 0.50±0.30 | 2.40+0.10 | 1.80+0.10 | 1.00±0.10 |
| LPWI201608S1R0T | | | | | | | |
| LPWI201608S2R2T | | | | | | | |

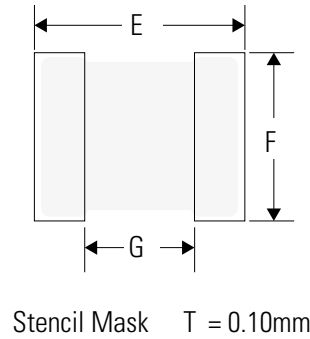
LPWI Series

Surface Mount

Dimensions



Recommended Footprint and Stencil Mask

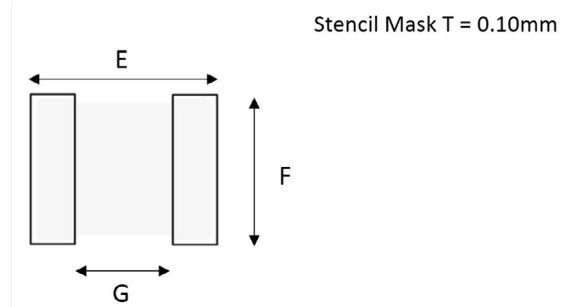
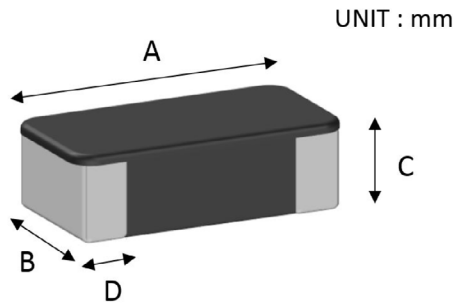


| Part Number | A | B | C (max.) | D | E | F | G |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| LPWI201610HR47T | 2.00±0.20 | 1.60±0.20 | 0.90±0.10 | 0.50±0.30 | 2.40+0.10 | 1.80+0.10 | 1.00±0.10 |
| LPWI201610BR47T | | | | | | | |
| LPWI201610SR47T | | | | | | | |
| LPWI201610H1R0T | | | | | | | |
| LPWI201610B1R0T | | | | | | | |
| LPWI201610S1R0T | | | | | | | |
| LPWI201610H1R5T | | | | | | | |
| LPWI201610B2R2T | | | | | | | |
| LPWI201610S2R2T | | | | | | | |
| LPWI201610H2R2T | | | | | | | |
| LPWI201610SR68T | | | | | | | |
| LPWI252010SR47T | 2.50±0.20 | 2.00±0.20 | 0.90±0.10 | 0.50±0.30 | 2.80+0.10 | 2.20+0.10 | 1.20±0.10 |
| LPWI252010BR47T | | | | | | | |
| LPWI252010NR68T | | | | | | | |
| LPWI252010S1R0T | | | | | | | |
| LPWI252010B1R0T | | | | | | | |
| LPWI252010H1R0T | | | | | | | |
| LPWI252010B2R2T | | | | | | | |
| LPWI252010S2R2T | | | | | | | |
| LPWI252010H2R2T | | | | | | | |
| LPWI252010S4R7T | | | | | | | |
| LPWI252010SR33T | | | | | | | |
| LPWI252010S1R5T | 2.50±0.20 | 2.00±0.20 | 1.00 | 0.50±0.30 | 2.80+0.10 | 2.20+0.10 | 1.20±0.10 |
| LPWI252010S3R3T | | | | | | | |

LPWI Series

Surface Mount

Dimensions



| Part Number | A | B | C (max.) | D | E | F | G |
|------------------|-----------|-----------|----------|-----------|-----------|-----------|-----------|
| LPWI201610TR47T | 2.00±0.20 | 1.60±0.20 | 1 | 0.50±0.30 | 2.40+0.10 | 1.80+0.10 | 1.00±0.10 |
| LPWI201610TAR47T | | | | | | | |
| LPWI201610TBR47T | | | | | | | |
| LPWI201610T1R0T | | | | | | | |
| LPWI201610TA1R0T | | | | | | | |
| LPWI201610TB1R0T | | | | | | | |

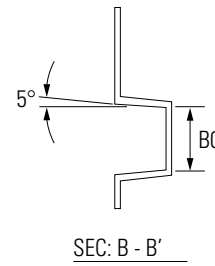
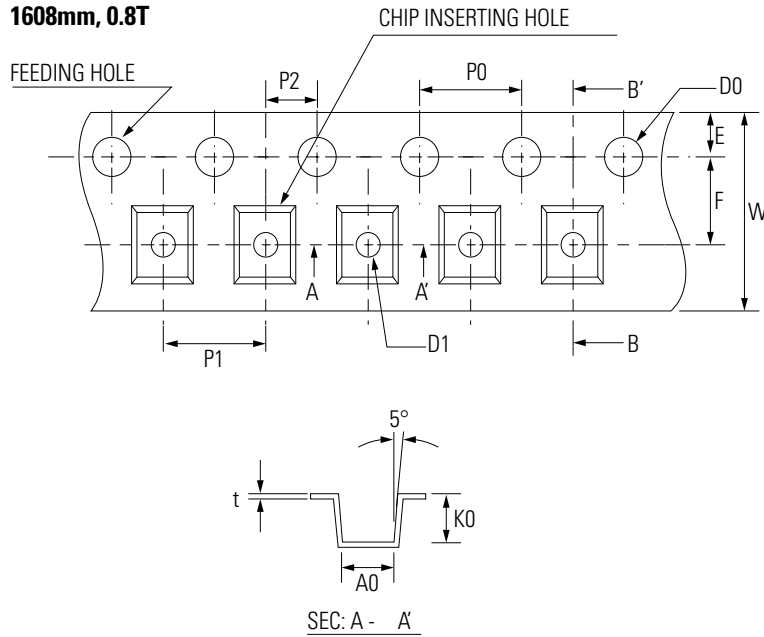
Special Notice: Above PNs have top cover; no ground

LPWI Series

Surface Mount

Carrier Tape Dimensions

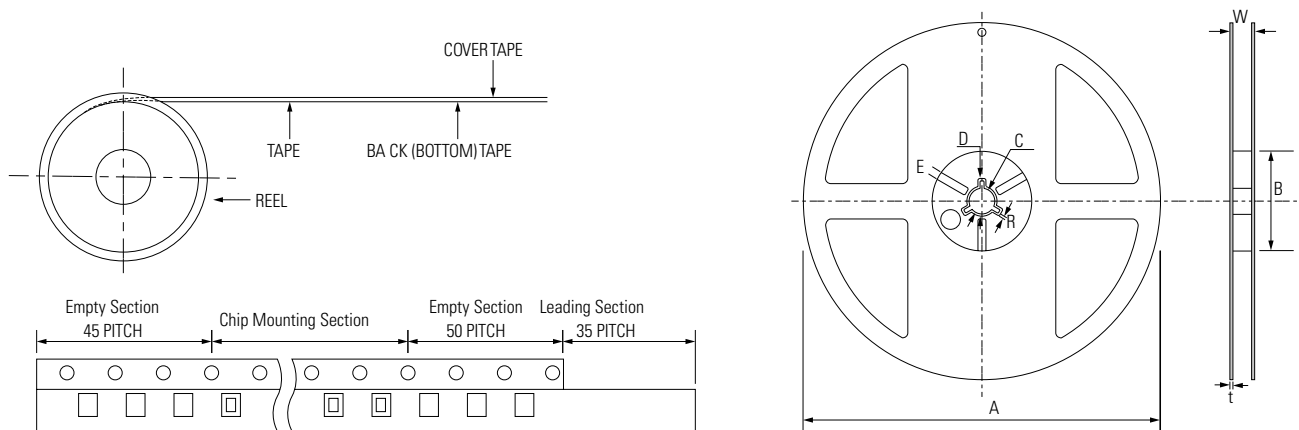
1608mm, 0.8T



| Symbol | Dimensions |
|--------|-------------|
| | Millimeters |
| A0 | 1.14±0.05 |
| B0 | 1.95±0.05 |
| W | 8.00±0.10 |
| F | 3.50±0.05 |
| E | 1.75±0.05 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.10 |
| D0 | 1.55±0.03 |
| t | 0.22±0.05 |

Tape and Reel Dimensions

1608mm, 0.8T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 4,000pcs

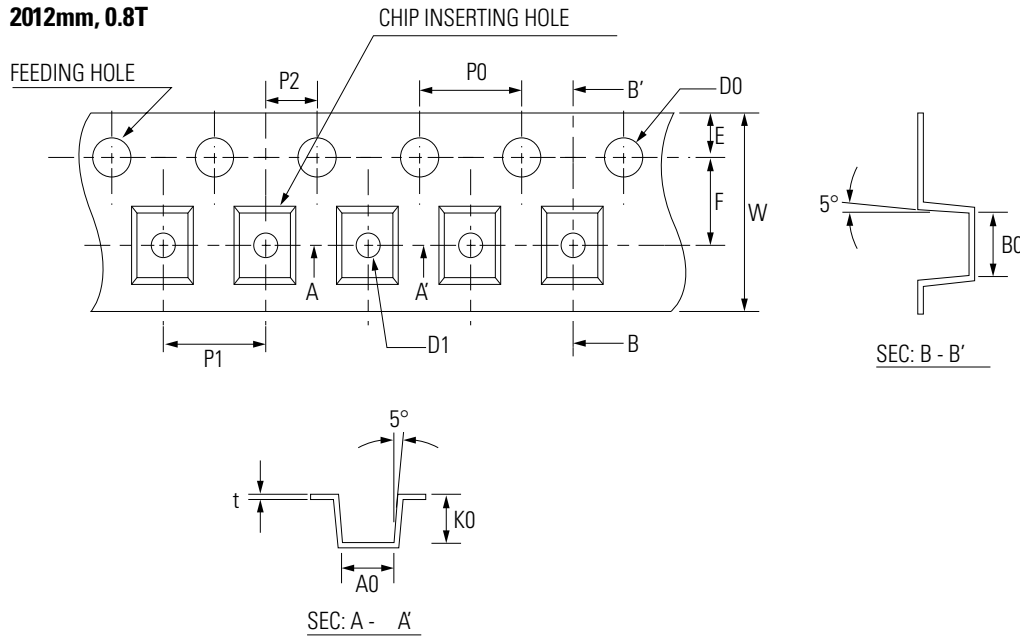
| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|---------|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø20±0.8 | 3.0±0.5 | 10±1.5 | 1.3±0.2 | 1.0±0.2 |

LPWI Series

Surface Mount

Carrier Tape Dimensions

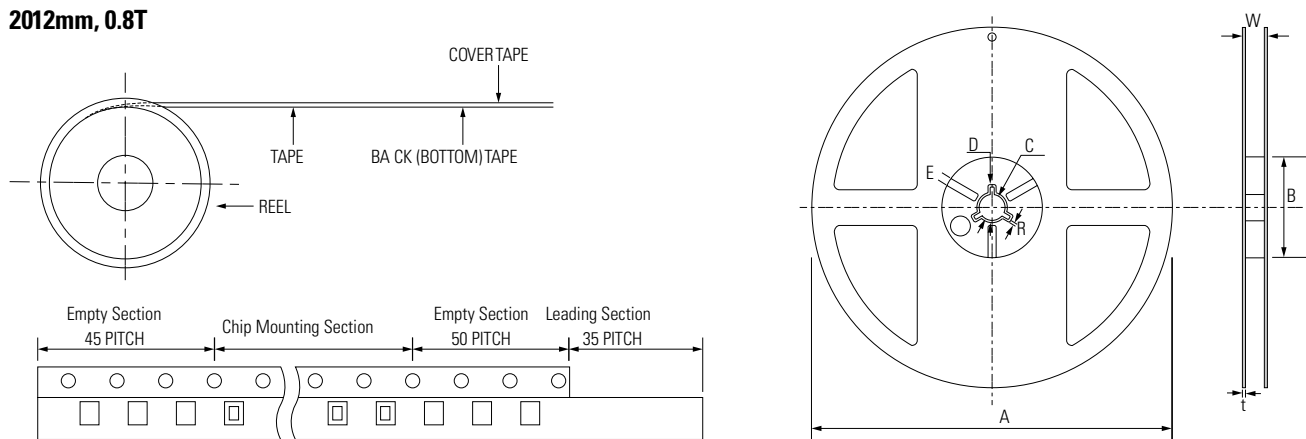
2012mm, 0.8T



| Symbol | Dimensions |
|--------|----------------|
| | Milimeters |
| A0 | 1.50±0.05 |
| B0 | 2.35±0.05 |
| K0 | 0.90±0.05 |
| W | 8.00±0.02 |
| F | 3.50±0.05 |
| E | 1.75±0.10 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.05 |
| D0 | 1.50+0.10 & -0 |
| D1 | 1.00±0.05 |
| t | 0.25±0.05 |

Tape and Reel Dimensions

2012mm, 0.8T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 3,000pcs

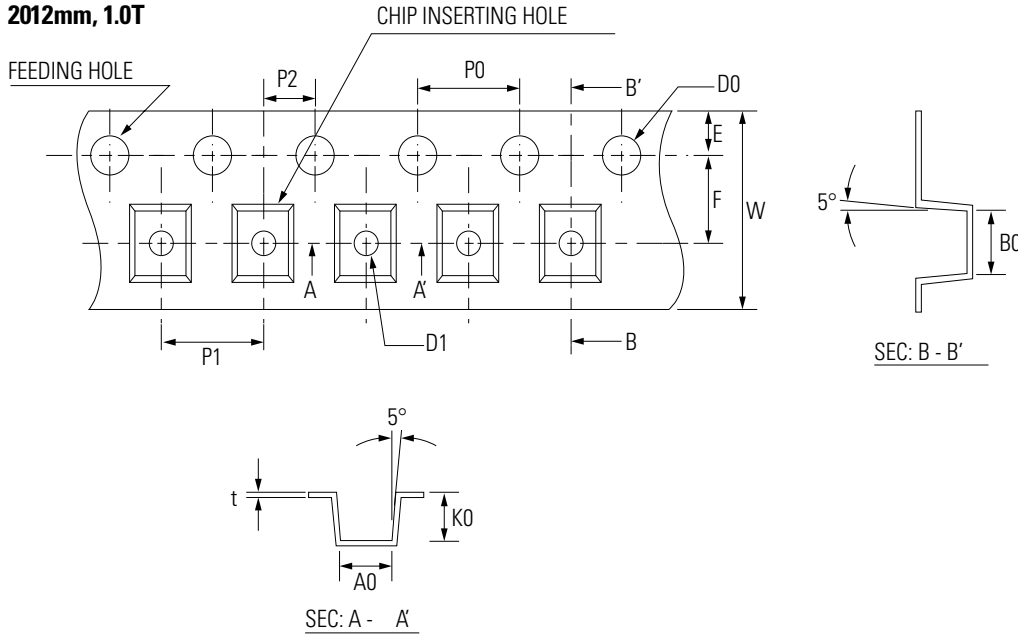
| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|---------|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø20±0.8 | 3.0±0.5 | 10±1.5 | 1.3±0.2 | 1.0±0.2 |

LPWI Series

Surface Mount

Carrier Tape Dimensions

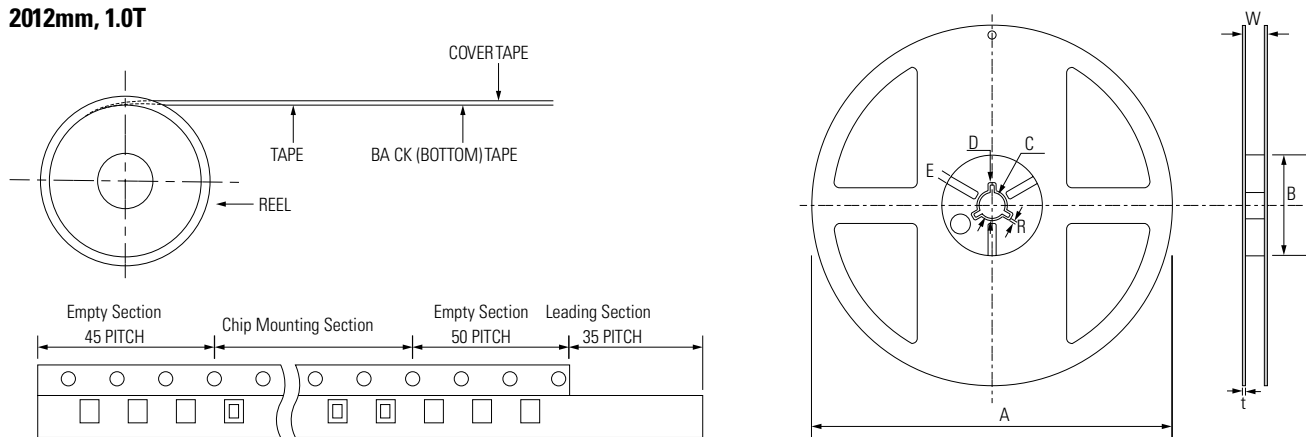
2012mm, 1.0T



| Symbol | Dimensions |
|--------|----------------|
| | Milimeters |
| A0 | 1.42±0.10 |
| B0 | 2.35±0.05 |
| K0 | 1.09±0.05 |
| W | 8.00±0.2 |
| F | 3.50±0.05 |
| E | 1.75±0.10 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.05 |
| D0 | 1.50+0.10 & -0 |
| D1 | 1.00±0.10 |
| t | 0.22±0.05 |

Tape and Reel Dimensions

2012mm, 1.0T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 3,000pcs

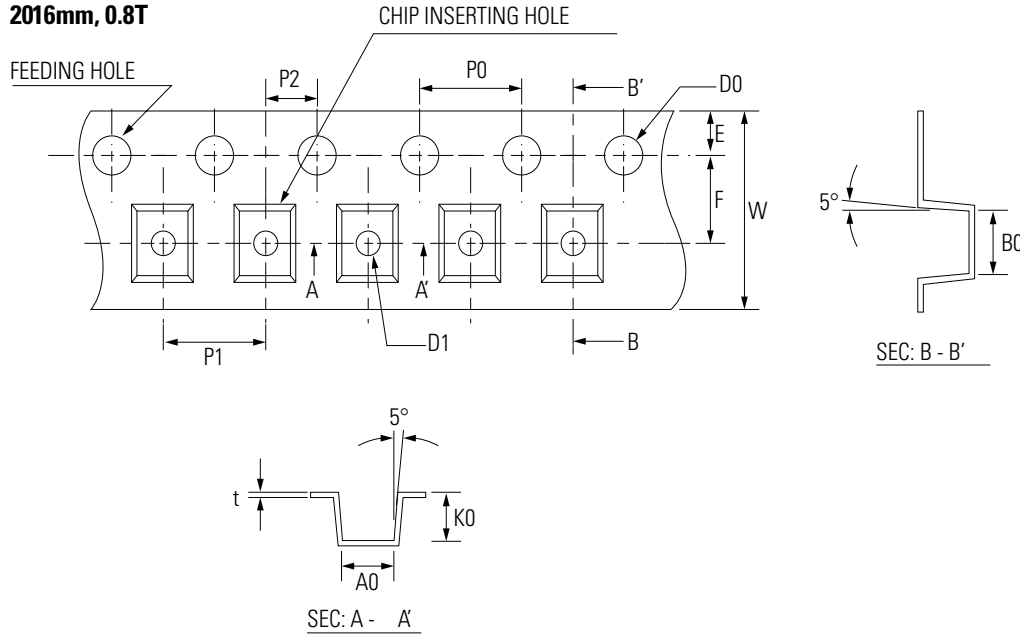
| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|---------|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø20±0.8 | 3.0±0.5 | 10±1.5 | 1.3±0.2 | 1.0±0.2 |

LPWI Series

Surface Mount

Carrier Tape Dimensions

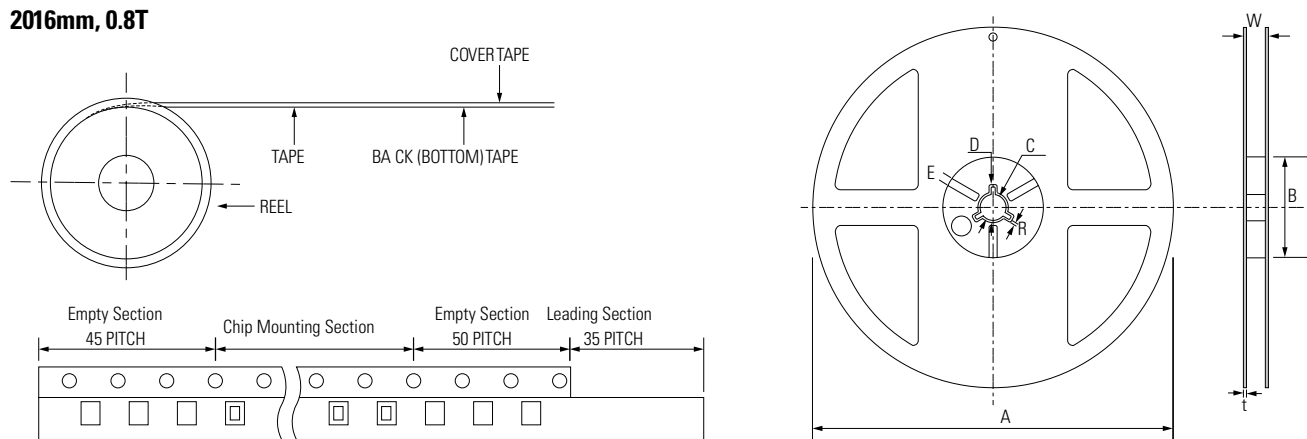
2016mm, 0.8T



| Symbol | Dimensions |
|--------|----------------|
| | Milimeters |
| A0 | 1.90±0.10 |
| B0 | 2.35±0.10 |
| K0 | 1.15±0.10 |
| W | 8.00±0.2 |
| F | 3.50±0.05 |
| E | 1.75±0.10 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.05 |
| D0 | 1.50+0.10 & -0 |
| D1 | 1.00±0.10 |
| t | 0.22±0.05 |

Tape and Reel Dimensions

2016mm, 0.8T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 3,000pcs

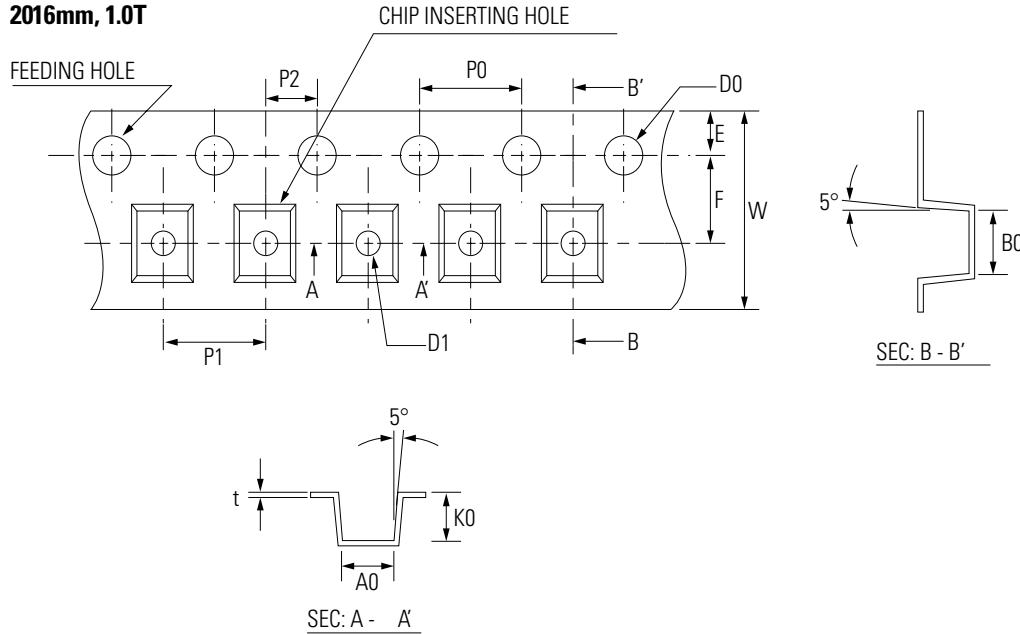
| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|-----|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø21±0.8 | 2.0±0.5 | 10±1.5 | 0.8±0.2 | 1.0 |

LPWI Series

Surface Mount

Carrier Tape Dimensions

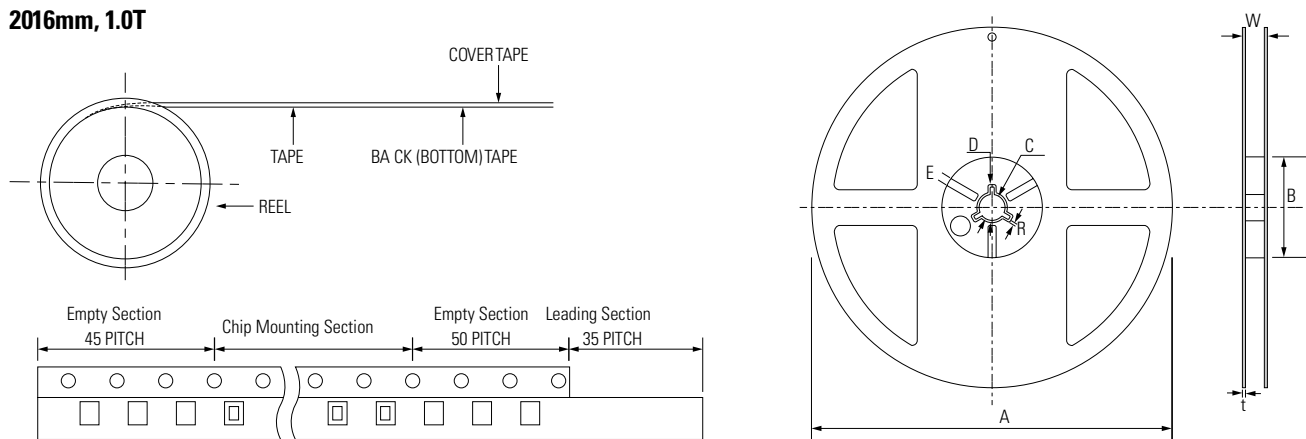
2016mm, 1.0T



| Symbol | Dimensions |
|--------|----------------|
| | Milimeters |
| A0 | 1.90±0.10 |
| B0 | 2.35±0.10 |
| K0 | 1.15±0.10 |
| W | 8.00±0.2 |
| F | 3.50±0.05 |
| E | 1.75±0.10 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.05 |
| D0 | 1.50+0.10 & -0 |
| D1 | 1.00±0.10 |
| t | 0.22±0.05 |

Tape and Reel Dimensions

2016mm, 1.0T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 3,000pcs

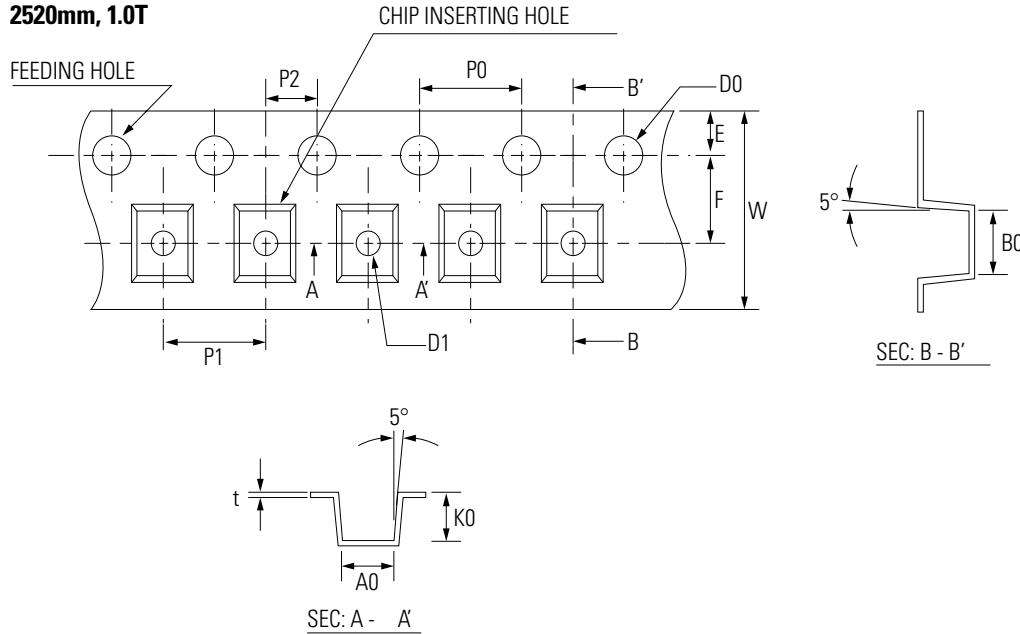
| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|-----|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø21±0.8 | 2.0±0.5 | 10±1.5 | 0.8±0.2 | 1.0 |

LPWI Series

Surface Mount

Carrier Tape Dimensions

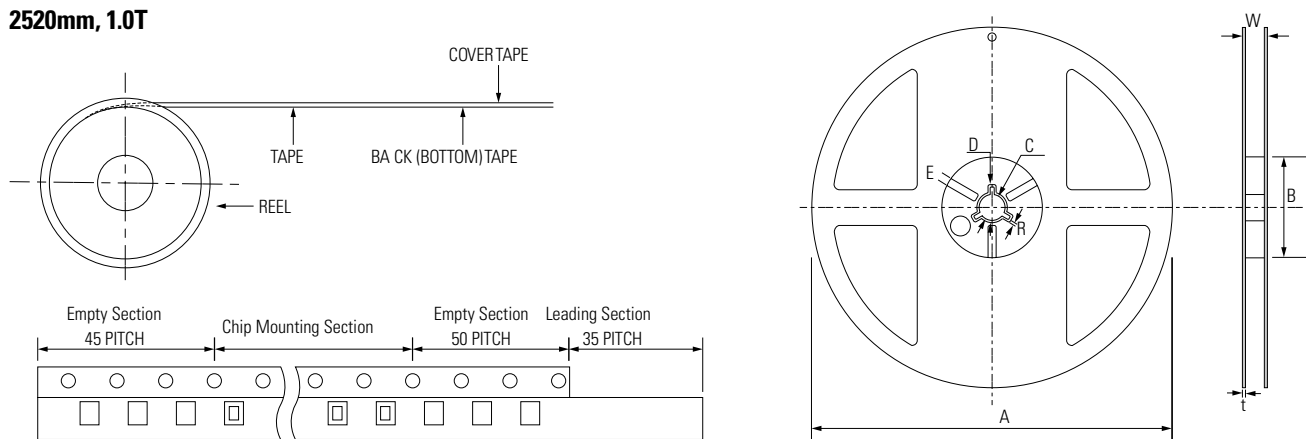
2520mm, 1.0T



| Symbol | Dimensions |
|--------|----------------|
| | Milimeters |
| A0 | 2.23±0.10 |
| B0 | 2.74±0.10 |
| K0 | 1.17±0.10 |
| W | 8.00±0.2 |
| F | 3.50±0.05 |
| E | 1.75±0.10 |
| P1 | 4.00±0.10 |
| P2 | 2.00±0.05 |
| P0 | 4.00±0.05 |
| D0 | 1.50+0.10 & -0 |
| D1 | 1.00±0.10 |
| t | 0.22±0.05 |

Tape and Reel Dimensions

2520mm, 1.0T



- (1) Reel Materials: Polystyrene (2) Label (3) Taping
- Standard Packing Quantity per Reel (Ø178)
- PE Tape: 3,000pcs

| Code | A | B | C | D | E | W | t | R |
|-----------|--------|----------|---------|---------|---------|--------|---------|---------|
| Dimension | Ø178±2 | Min. Ø50 | Ø13±0.5 | Ø20±0.8 | 3.0±0.5 | 10±1.5 | 1.3±0.2 | 1.0±0.2 |

LPWI Series

Surface Mount

Part Numbering System

LPWI 201608 S R47 T

Function

Power Inductor

Series and Dimensions

(L x W x T, mm)
2.00 x 1.60 x 0.80

Remark: Characterization Code

Inductance

@1MHz (uH)
R47= 0.47±20%

Tape and Reel

Packaging

| Part Number | Packaging Option | Quantity |
|---------------|------------------|----------|
| LPWI1608***** | Tape and Reel | 4000 |
| LPWI2012***** | Tape and Reel | 3000 |
| LPWI2016***** | Tape and Reel | 3000 |
| LPWI2520***** | Tape and Reel | 3000 |

Disclaimer Notice - Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. Read complete Disclaimer Notice at www.littelfuse.com/disclaimer-electronics.