

Features:

- Wirewound on ferrite core design
- Shows high reliability under mechanical and environmental stress
- Robust termination for outstanding mechanical strength
- Exceptional Q values for small package sizes
- High current option available
- 100% RoHS compliant and lead free without exemption
- Halogen free
- REACH compliant
- Contact Stackpole for additional inductance values

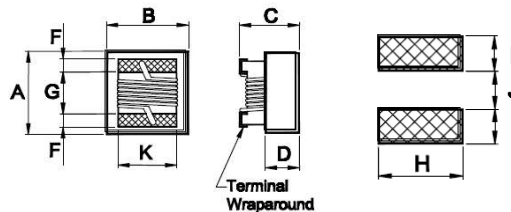


Applications:

- Micro televisions
- Liquid crystal televisions
- Video Cameras
- Car Radios
- Radio and other electronic devices

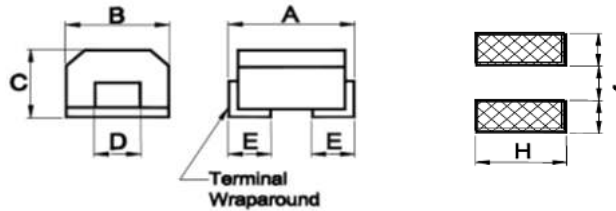
| Inductance and Current Ranges | | |
|-------------------------------|-----------------------|--------------------|
| Type | Inductance (μ H) | Current Range (mA) |
| LWF0603 | 1 ~ 33 | 860 ~ 120 |
| LWF0603...-HC | 0.047 ~ 10 | 1800 ~ 370 |
| LWF0805 | 0.11 ~ 39 | 1700 ~ 100 |
| LWF0805...-HC | 0.47 ~ 100 | 1400 ~ 100 |
| LWF1008 | 0.12 ~ 100 | 1000 ~ 200 |
| LWF1008...-HC | 0.1 ~ 330 | 3200 ~ 130 |
| LWF1210 | 0.18 ~ 150 | 450 ~ 65 |
| LWF1210...-HC | 1 ~ 100 | 770 ~ 75 |
| LWF1812 | 0.18 ~ 820 | 700 ~ 30 |
| LWF1812...-HC | 1 ~ 680 | 1050 ~ 65 |
| LWF2220 | 1.2 ~ 10 | 75 ~ 25 |
| LWF2220...-HC | 1 ~ 1000 | 1800 ~ 85 |

Mechanical Specifications – 0603(HC), 0805(LP), 1008(HC)



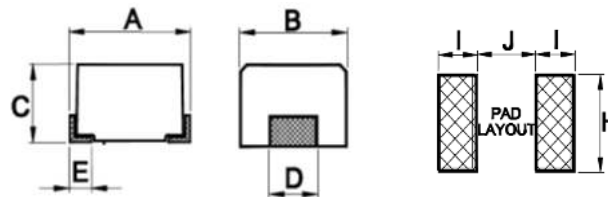
| Type/Code | Weight (g) (1000 pc) | A | B | C | D | F | G | H | I | J | K | Unit |
|---------------|-------------------------|-----------------------|-----------------------|-----------------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|--------------|
| LWF0603 | 9.6 | 0.071 max 1.80 max | 0.047 max 1.20 max | 0.039 max 1.00 max | 0.018 0.45 | 0.013 0.33 | 0.037 0.95 | 0.040 1.02 | 0.025 0.64 | 0.025 0.64 | 0.041 1.05 | inches mm |
| LWF0603...-HC | 9.6 | 0.071 max 1.80 max | 0.047 max 1.20 max | 0.043 max 1.10 max | 0.018 0.45 | 0.013 0.33 | 0.037 0.95 | 0.040 1.02 | 0.025 0.64 | 0.025 0.64 | 0.041 1.05 | inches mm |
| LWF0805 | 14 | 0.094 max 2.40 max | 0.067 max 1.71 max | 0.057 max 1.45 max | 0.026 0.65 | 0.017 0.44 | 0.040 1.02 | 0.070 1.78 | 0.040 1.02 | 0.030 0.76 | 0.050 1.27 | inches mm |
| LWF1008 | 30 | 0.115 max 2.92 max | 0.110 max 2.79 max | 0.083 max 2.10 max | 0.047 1.20 | 0.018 0.45 | 0.060 1.52 | 0.100 2.54 | 0.040 1.02 | 0.050 1.27 | 0.080 2.03 | inches mm |
| LWF1008...-HC | 30 | 0.115 max 2.92 max | 0.110 max 2.79 max | 0.083 max 2.10 max | 0.051 1.30 | 0.018 0.45 | 0.060 1.52 | 0.100 2.54 | 0.040 1.02 | 0.050 1.27 | 0.080 2.03 | inches mm |

Mechanical Specifications – 1210(HC), 1812(HC), 2220



| Type/Code | Weight (g) (1000 pc) | A | B | C | D | E | H | I | J | Unit |
|---------------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------|---------------|---------------|--------------|
| LWF1210 | 40 | 0.126 ± 0.016 3.20 ± 0.40 | 0.098 ± 0.008 2.50 ± 0.20 | 0.087 ± 0.008 2.20 ± 0.20 | 0.039 ± 0.008 1.00 ± 0.20 | 0.024 ± 0.012 0.60 ± 0.30 | 0.055 1.40 | 0.039 1.00 | 0.071 1.80 | inches mm |
| LWF1210...-HC | 40 | 0.126 ± 0.016 3.20 ± 0.40 | 0.098 ± 0.008 2.50 ± 0.20 | 0.087 ± 0.008 2.20 ± 0.20 | 0.157 ± 0.008 1.00 ± 0.20 | 0.024 ± 0.012 0.60 ± 0.30 | 0.055 1.40 | 0.039 1.00 | 0.071 1.80 | inches mm |
| LWF1812 | 160 | 0.177 ± 0.012 4.50 ± 0.30 | 0.126 ± 0.008 3.20 ± 0.20 | 0.126 ± 0.008 3.20 ± 0.20 | 0.047 1.20 | 0.039 ± 0.012 1.00 ± 0.30 | 0.063 1.60 | 0.059 1.50 | 0.087 2.20 | inches mm |
| LWF1812...-HC | 160 | 0.177 ± 0.012 4.50 ± 0.30 | 0.126 ± 0.008 3.20 ± 0.20 | 0.126 ± 0.008 3.20 ± 0.20 | 0.047 1.20 | 0.039 ± 0.012 1.00 ± 0.30 | 0.063 1.60 | 0.059 1.50 | 0.087 2.20 | inches mm |

Mechanical Specifications – LWF2220(HC)



| Type/Code | Weight (g) (1000 pc) | A | B | C | D | E | H | I | J | Unit |
|---------------|-------------------------|------------------------------|------------------------------|------------------------------|------------------------------|------------------------------|---------------|---------------|---------------|--------------|
| LWF2220 | 300 | 0.220 ± 0.012 5.60 ± 0.30 | 0.197 ± 0.008 5.00 ± 0.20 | 0.157 ± 0.012 4.00 ± 0.30 | 0.157 ± 0.008 4.00 ± 0.20 | 0.028 ± 0.008 0.70 ± 0.20 | 0.177 4.50 | 0.079 2.00 | 0.157 4.00 | inches mm |
| LWF2220...-HC | 300 | 0.220 ± 0.012 5.60 ± 0.30 | 0.197 ± 0.008 5.00 ± 0.20 | 0.157 ± 0.012 4.00 ± 0.30 | 0.157 ± 0.008 4.00 ± 0.20 | 0.028 ± 0.008 0.70 ± 0.20 | 0.177 4.50 | 0.079 2.00 | 0.157 4.00 | inches mm |

Electrical Specifications – LWF0603 Standard

| Part Number | Inductance (μH) | Tolerance | Q typ. | Test Freq (MHz) | SRF (MHz) typ. | DCR (Ω) max. | IDC (mA) max. |
|--------------|--------------------|-----------|-----------|--------------------|-------------------|-----------------|------------------|
| LWF0603_T1R0 | 1 | ±10, ±20% | 16 | 7.9 | 390 | 0.416 | 860 |
| LWF0603_T1R5 | 1.5 | ±10, ±20% | 16 | 7.9 | 160 | 0.52 | 720 |
| LWF0603_T1R8 | 1.8 | ±10, ±20% | 16 | 7.9 | 121 | 0.559 | 640 |
| LWF0603_T2R2 | 2.2 | ±10, ±20% | 16 | 7.9 | 103 | 0.728 | 600 |
| LWF0603_T2R7 | 2.7 | ±10, ±20% | 16 | 7.9 | 72 | 0.806 | 540 |
| LWF0603_T3R3 | 3.3 | ±10, ±20% | 16 | 7.9 | 66 | 0.91 | 500 |
| LWF0603_T3R9 | 3.9 | ±10, ±20% | 16 | 7.9 | 61 | 1.079 | 460 |
| LWF0603_T4R7 | 4.7 | ±10, ±20% | 16 | 7.9 | 51 | 1.261 | 400 |
| LWF0603_T5R6 | 5.6 | ±10, ±20% | 16 | 7.9 | 47 | 1.43 | 380 |
| LWF0603_T6R8 | 6.8 | ±10, ±20% | 16 | 7.9 | 43 | 1.95 | 340 |
| LWF0603_T8R2 | 8.2 | ±10, ±20% | 16 | 7.9 | 40 | 2.184 | 300 |
| LWF0603_T100 | 10 | ±10, ±20% | 14 | 2.5 | 36 | 2.405 | 280 |
| LWF0603_T120 | 12 | ±10, ±20% | 14 | 2.5 | 32 | 2.964 | 260 |
| LWF0603_T150 | 15 | ±10, ±20% | 14 | 2.5 | 29 | 3.38 | 240 |
| LWF0603_T180 | 18 | ±10, ±20% | 14 | 2.5 | 28 | 3.77 | 220 |
| LWF0603_T220 | 22 | ±10, ±20% | 14 | 2.5 | 24 | 4.693 | 200 |
| LWF0603_T270 | 27 | ±10, ±20% | 14 | 2.5 | 20 | 6.76 | 140 |
| LWF0603_T330 | 33 | ±10, ±20% | 14 | 2.5 | 15 | 8.58 | 120 |

Electrical Specifications – LWF0805 Standard

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|--------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF0805KTR11 | 0.11 | ±10% | 25 | 25.00 | 1200 | 0.10 | 1700 |
| LWF0805_TR12 | 0.12 | ±5, ±10% | 25 | 25.00 | 1000 | 0.18 | 1500 |
| LWF0805_TR15 | 0.15 | ±5, ±10% | 25 | 25.00 | 1000 | 0.18 | 1400 |
| LWF0805_TR18 | 0.18 | ±5, ±10% | 30 | 25.00 | 1000 | 0.2 | 1400 |
| LWF0805_TR22 | 0.22 | ±5, ±10% | 30 | 25.00 | 830 | 0.25 | 1350 |
| LWF0805_TR27 | 0.27 | ±5, ±10% | 30 | 25.00 | 800 | 0.38 | 1300 |
| LWF0805_TR33 | 0.33 | ±5, ±10% | 30 | 25.00 | 750 | 0.35 | 1200 |
| LWF0805_TR39 | 0.39 | ±5, ±10% | 30 | 25.00 | 700 | 0.35 | 1160 |
| LWF0805_TR47 | 0.47 | ±5, ±10% | 30 | 25.00 | 690 | 0.40 | 1100 |
| LWF0805_TR56 | 0.56 | ±5, ±10% | 30 | 25.00 | 640 | 0.40 | 1040 |
| LWF0805_TR62 | 0.62 | ±5, ±10% | 30 | 25.00 | 640 | 0.45 | 980 |
| LWF0805_TR68 | 0.68 | ±5, ±10% | 30 | 25.00 | 510 | 0.5 | 900 |
| LWF0805_TR82 | 0.82 | ±5, ±10% | 30 | 25.00 | 500 | 0.50 | 900 |
| LWF0805_TR91 | 0.91 | ±5, ±10% | 30 | 25.00 | 500 | 0.55 | 900 |
| LWF0805_T1R0 | 1 | ±5, ±10% | 20 | 7.90 | 470 | 0.5 | 840 |
| LWF0805_T1R2 | 1.2 | ±5, ±10% | 20 | 7.90 | 400 | 0.8 | 800 |
| LWF0805_T1R5 | 1.5 | ±5, ±10% | 25 | 7.90 | 400 | 1.00 | 720 |
| LWF0805_T1R8 | 1.8 | ±5, ±10% | 25 | 7.90 | 230 | 1 | 660 |
| LWF0805_T2R2 | 2.2 | ±5, ±10% | 25 | 7.90 | 200 | 1.1 | 600 |
| LWF0805_T2R7 | 2.7 | ±5, ±10% | 25 | 7.90 | 130 | 1.2 | 500 |
| LWF0805_T3R3 | 3.3 | ±5, ±10% | 25 | 7.90 | 160 | 1.3 | 480 |
| LWF0805_T3R9 | 3.9 | ±5, ±10% | 25 | 7.90 | 130 | 1.75 | 440 |
| LWF0805_T4R7 | 4.7 | ±5, ±10% | 25 | 7.90 | 120 | 1.9 | 390 |
| LWF0805_T5R6 | 5.6 | ±5, ±10% | 25 | 7.90 | 90 | 2.0 | 340 |
| LWF0805_T6R8 | 6.8 | ±5, ±10% | 25 | 7.90 | 55 | 2.2 | 300 |
| LWF0805_T8R2 | 8.2 | ±5, ±10% | 25 | 7.90 | 40 | 2.4 | 280 |
| LWF0805_T100 | 10 | ±5, ±10% | 16 | 2.50 | 40 | 2.6 | 260 |
| LWF0805_T120 | 12 | ±5, ±10% | 16 | 2.50 | 37 | 2.8 | 220 |
| LWF0805_T150 | 15 | ±5, ±10% | 16 | 2.50 | 30 | 3.8 | 200 |
| LWF0805_T180 | 18 | ±5, ±10% | 16 | 2.50 | 23 | 4.48 | 180 |
| LWF0805_T220 | 22 | ±5, ±10% | 16 | 2.50 | 20 | 6.3 | 160 |
| LWF0805_T270 | 27 | ±5, ±10% | 16 | 2.50 | 19 | 6.85 | 140 |
| LWF0805_T330 | 33 | ±5, ±10% | 16 | 2.50 | 18 | 7.6 | 120 |
| LWF0805_T390 | 39 | ±5, ±10% | 15 | 2.50 | 16 | 8.2 | 100 |

Electrical Specifications – LWF1008 Standard

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) Typical | DCR (Ω) Max | IDC (mA) Max |
|--------------|-----------------|-----------|--------|-----------------|-------------------|-------------|--------------|
| LWF1008_TR12 | 0.12 | ±5, ±10% | 26 | 25.0 | 930 | 0.3 | 1000 |
| LWF1008_TR18 | 0.18 | ±5, ±10% | 30 | 25.0 | 930 | 0.3 | 960 |
| LWF1008_TR20 | 0.2 | ±5, ±10% | 30 | 25.0 | 735 | 0.3 | 960 |
| LWF1008_TR22 | 0.22 | ±5, ±10% | 27 | 25.0 | 750 | 0.4 | 880 |
| LWF1008_TR27 | 0.27 | ±5, ±10% | 29 | 25.0 | 700 | 0.42 | 900 |
| LWF1008_TR33 | 0.33 | ±5, ±10% | 30 | 25.0 | 600 | 0.42 | 900 |
| LWF1008_TR39 | 0.39 | ±5, ±10% | 30 | 25.0 | 480 | 0.45 | 920 |
| LWF1008_TR47 | 0.47 | ±5, ±10% | 30 | 25.0 | 470 | 0.5 | 920 |
| LWF1008_TR56 | 0.56 | ±5, ±10% | 30 | 25.0 | 460 | 0.55 | 900 |
| LWF1008_TR62 | 0.62 | ±5, ±10% | 30 | 25.0 | 460 | 0.55 | 900 |
| LWF1008_TR68 | 0.68 | ±5, ±10% | 30 | 25.0 | 420 | 0.55 | 880 |
| LWF1008_TR75 | 0.75 | ±5, ±10% | 30 | 25.0 | 420 | 0.65 | 880 |
| LWF1008_TR82 | 0.82 | ±5, ±10% | 30 | 25.0 | 380 | 0.65 | 840 |
| LWF1008_TR91 | 0.91 | ±5, ±10% | 30 | 25.0 | 400 | 0.65 | 840 |
| LWF1008_T1R0 | 1.0 | ±5, ±10% | 25 | 7.90 | 300 | 0.6 | 800 |
| LWF1008_T1R2 | 1.2 | ±5, ±10% | 25 | 7.90 | 280 | 0.74 | 800 |
| LWF1008_T1R5 | 1.5 | ±5, ±10% | 25 | 7.90 | 245 | 0.85 | 780 |
| LWF1008_T1R8 | 1.8 | ±5, ±10% | 25 | 7.90 | 240 | 0.92 | 780 |

Electrical Specifications – LWF1008 Standard (cont.)

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) Typical | DCR (Ω) Max | IDC (mA) Max |
|--------------|-----------------|-----------|--------|-----------------|-------------------|-------------|--------------|
| LWF1008_T2R2 | 2.2 | ±5, ±10% | 25 | 7.90 | 205 | 1.1 | 760 |
| LWF1008_T2R7 | 2.7 | ±5, ±10% | 25 | 7.90 | 187 | 1.22 | 760 |
| LWF1008_T3R3 | 3.3 | ±5, ±10% | 25 | 7.90 | 165 | 1.37 | 740 |
| LWF1008_T3R9 | 3.9 | ±5, ±10% | 25 | 7.90 | 144 | 1.66 | 700 |
| LWF1008_T4R7 | 4.7 | ±5, ±10% | 25 | 7.90 | 110 | 1.68 | 660 |
| LWF1008_T5R6 | 5.6 | ±5, ±10% | 25 | 7.90 | 88 | 1.75 | 640 |
| LWF1008_T6R8 | 6.8 | ±5, ±10% | 25 | 7.90 | 70 | 1.85 | 640 |
| LWF1008_T8R2 | 8.2 | ±5, ±10% | 25 | 7.90 | 57 | 2 | 600 |
| LWF1008_T100 | 10 | ±5, ±10% | 25 | 7.90 | 55 | 2.32 | 600 |
| LWF1008_T120 | 12 | ±5, ±10% | 15 | 2.50 | 52 | 2.99 | 560 |
| LWF1008_T150 | 15 | ±5, ±10% | 15 | 2.50 | 49 | 3.42 | 480 |
| LWF1008_T180 | 18 | ±5, ±10% | 15 | 2.50 | 48 | 4.65 | 420 |
| LWF1008_T220 | 22 | ±5, ±10% | 15 | 2.50 | 25 | 5.12 | 420 |
| LWF1008_T270 | 27 | ±5, ±10% | 15 | 2.50 | 23 | 5.76 | 420 |
| LWF1008_T330 | 33 | ±5, ±10% | 15 | 2.50 | 17 | 6.44 | 400 |
| LWF1008_T390 | 39 | ±5, ±10% | 15 | 2.50 | 15 | 6.85 | 380 |
| LWF1008_T470 | 47 | ±5, ±10% | 14 | 2.50 | 13 | 9.94 | 260 |
| LWF1008_T560 | 56 | ±5, ±10% | 14 | 2.50 | 10 | 10.7 | 280 |
| LWF1008_T680 | 68 | ±5, ±10% | 14 | 2.50 | 8 | 12.8 | 260 |
| LWF1008_T820 | 82 | ±5, ±10% | 14 | 2.50 | 8 | 18.3 | 240 |
| LWF1008_T101 | 100 | ±5, ±10% | 8 | 1 | 7 | 19.6 | 200 |

Electrical Specifications – LWF1210 Standard

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|--------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1210MTR18 | 0.18 | ±20% | 30 | 25.2 | 685 | 0.28 | 450 |
| LWF1210MTR22 | 0.22 | ±20% | 30 | 25.2 | 560 | 0.32 | 450 |
| LWF1210MTR27 | 0.27 | ±20% | 30 | 25.2 | 525 | 0.36 | 450 |
| LWF1210MTR33 | 0.33 | ±20% | 30 | 25.2 | 520 | 0.4 | 450 |
| LWF1210MTR39 | 0.39 | ±20% | 30 | 25.2 | 470 | 0.45 | 450 |
| LWF1210MTR47 | 0.47 | ±20% | 30 | 25.2 | 430 | 0.5 | 450 |
| LWF1210MTR56 | 0.56 | ±20% | 30 | 25.2 | 395 | 0.55 | 450 |
| LWF1210MTR68 | 0.68 | ±20% | 30 | 25.2 | 370 | 0.6 | 450 |
| LWF1210MTR82 | 0.82 | ±20% | 30 | 25.2 | 310 | 0.65 | 450 |
| LWF1210KT1R0 | 1 | ±10% | 30 | 7.96 | 295 | 0.7 | 400 |
| LWF1210KT1R2 | 1.2 | ±10% | 30 | 7.96 | 255 | 0.75 | 390 |
| LWF1210KT1R5 | 1.5 | ±10% | 30 | 7.96 | 160 | 0.85 | 370 |
| LWF1210KT1R8 | 1.8 | ±10% | 30 | 7.96 | 125 | 0.9 | 350 |
| LWF1210KT2R2 | 2.2 | ±10% | 30 | 7.96 | 100 | 1 | 320 |
| LWF1210KT2R7 | 2.7 | ±10% | 30 | 7.96 | 65 | 1.1 | 290 |
| LWF1210KT3R3 | 3.3 | ±10% | 30 | 7.96 | 55 | 1.2 | 260 |
| LWF1210KT3R9 | 3.9 | ±10% | 30 | 7.96 | 50 | 1.3 | 250 |
| LWF1210KT4R7 | 4.7 | ±10% | 30 | 7.96 | 45 | 1.5 | 220 |
| LWF1210KT5R6 | 5.6 | ±10% | 30 | 7.96 | 40 | 1.6 | 200 |
| LWF1210KT6R8 | 6.8 | ±10% | 30 | 7.96 | 35 | 1.8 | 180 |
| LWF1210KT8R2 | 8.2 | ±10% | 30 | 7.96 | 30 | 2 | 170 |
| LWF1210KT100 | 10 | ±10% | 30 | 2.52 | 30 | 2.1 | 150 |
| LWF1210KT120 | 12 | ±10% | 30 | 2.52 | 28 | 2.5 | 140 |
| LWF1210KT150 | 15 | ±10% | 30 | 2.52 | 25 | 2.8 | 130 |
| LWF1210KT180 | 18 | ±10% | 30 | 2.52 | 22 | 3.3 | 120 |
| LWF1210KT220 | 22 | ±10% | 30 | 2.52 | 19 | 3.7 | 110 |
| LWF1210KT270 | 27 | ±10% | 30 | 2.52 | 18 | 5 | 80 |
| LWF1210KT330 | 33 | ±10% | 30 | 2.52 | 17 | 5.6 | 70 |
| LWF1210KT390 | 39 | ±10% | 30 | 2.52 | 15 | 6.4 | 65 |
| LWF1210KT470 | 47 | ±10% | 30 | 2.52 | 14 | 7 | 60 |
| LWF1210KT560 | 56 | ±10% | 30 | 2.52 | 13 | 8 | 55 |
| LWF1210KT680 | 68 | ±10% | 30 | 2.52 | 11 | 9 | 50 |

Electrical Specifications – LWF1210 Standard (cont.)

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|--------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1210KT820 | 82 | ±10% | 30 | 2.52 | 10 | 10 | 45 |
| LWF1210KT101 | 100 | ±10% | 20 | 0.796 | 9 | 10 | 40 |
| LWF1210KT121 | 120 | ±10% | 20 | 0.796 | 8 | 11 | 70 |
| LWF1210KT151 | 150 | ±10% | 20 | 0.796 | 7 | 15 | 65 |

Electrical Specifications – LWF1812 Standard

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|--------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1812MTR18 | 0.18 | ±20% | 35 | 25.2 | 570 | 0.24 | 700 |
| LWF1812MTR22 | 0.22 | ±20% | 40 | 25.2 | 505 | 0.25 | 665 |
| LWF1812MTR27 | 0.27 | ±20% | 40 | 25.2 | 450 | 0.26 | 635 |
| LWF1812MTR33 | 0.33 | ±20% | 40 | 25.2 | 425 | 0.28 | 605 |
| LWF1812MTR39 | 0.39 | ±20% | 40 | 25.2 | 390 | 0.3 | 575 |
| LWF1812MTR47 | 0.47 | ±20% | 40 | 25.2 | 350 | 0.32 | 545 |
| LWF1812MTR56 | 0.56 | ±20% | 40 | 25.2 | 325 | 0.36 | 520 |
| LWF1812MTR68 | 0.68 | ±20% | 40 | 25.2 | 300 | 0.4 | 500 |
| LWF1812MTR82 | 0.82 | ±20% | 40 | 25.2 | 275 | 0.45 | 475 |
| LWF1812KT1R0 | 1 | ±10% | 50 | 7.96 | 250 | 0.5 | 450 |
| LWF1812KT1R2 | 1.2 | ±10% | 50 | 7.96 | 240 | 0.55 | 430 |
| LWF1812KT1R5 | 1.5 | ±10% | 50 | 7.96 | 210 | 0.6 | 410 |
| LWF1812KT1R8 | 1.8 | ±10% | 50 | 7.96 | 190 | 0.65 | 390 |
| LWF1812KT2R2 | 2.2 | ±10% | 50 | 7.96 | 160 | 0.7 | 380 |
| LWF1812KT2R7 | 2.7 | ±10% | 50 | 7.96 | 150 | 0.75 | 370 |
| LWF1812KT3R3 | 3.3 | ±10% | 50 | 7.96 | 110 | 0.8 | 355 |
| LWF1812KT3R9 | 3.9 | ±10% | 50 | 7.96 | 100 | 0.9 | 330 |
| LWF1812KT4R7 | 4.7 | ±10% | 50 | 7.96 | 80 | 1 | 315 |
| LWF1812KT5R6 | 5.6 | ±10% | 50 | 7.96 | 50 | 1.1 | 300 |
| LWF1812KT6R8 | 6.8 | ±10% | 50 | 7.96 | 35 | 1.2 | 285 |
| LWF1812KT8R2 | 8.2 | ±10% | 50 | 7.96 | 28 | 1.4 | 270 |
| LWF1812KT100 | 10 | ±10% | 50 | 2.52 | 22 | 1.6 | 250 |
| LWF1812KT120 | 12 | ±10% | 50 | 2.52 | 20 | 2 | 225 |
| LWF1812KT150 | 15 | ±10% | 50 | 2.52 | 18 | 2.5 | 200 |
| LWF1812KT180 | 18 | ±10% | 50 | 2.52 | 16 | 2.8 | 190 |
| LWF1812KT220 | 22 | ±10% | 50 | 2.52 | 14 | 3.2 | 180 |
| LWF1812KT270 | 27 | ±10% | 50 | 2.52 | 13 | 3.6 | 170 |
| LWF1812KT330 | 33 | ±10% | 50 | 2.52 | 12 | 4 | 160 |
| LWF1812KT390 | 39 | ±10% | 50 | 2.52 | 11 | 4.5 | 150 |
| LWF1812KT470 | 47 | ±10% | 50 | 2.52 | 10.5 | 5 | 140 |
| LWF1812KT560 | 56 | ±10% | 50 | 2.52 | 10 | 5.5 | 135 |
| LWF1812KT680 | 68 | ±10% | 50 | 2.52 | 9.5 | 6 | 130 |
| LWF1812KT820 | 82 | ±10% | 50 | 2.52 | 8.5 | 7 | 120 |
| LWF1812KT101 | 100 | ±10% | 40 | 0.796 | 8 | 8 | 110 |
| LWF1812KT121 | 120 | ±10% | 40 | 0.796 | 7 | 8 | 110 |
| LWF1812KT151 | 150 | ±10% | 40 | 0.796 | 6 | 9 | 105 |
| LWF1812KT181 | 180 | ±10% | 40 | 0.796 | 5.5 | 9.5 | 102 |
| LWF1812KT221 | 220 | ±10% | 40 | 0.796 | 5 | 10 | 100 |
| LWF1812KT271 | 270 | ±10% | 40 | 0.796 | 4.5 | 12 | 92 |
| LWF1812KT331 | 330 | ±10% | 40 | 0.796 | 4 | 14 | 85 |
| LWF1812KT391 | 390 | ±10% | 40 | 0.796 | 3.5 | 18 | 80 |
| LWF1812KT471 | 470 | ±10% | 40 | 0.796 | 3.5 | 26 | 62 |
| LWF1812KT561 | 560 | ±10% | 30 | 0.796 | 3 | 30 | 50 |
| LWF1812KT681 | 680 | ±10% | 30 | 0.796 | 3 | 30 | 50 |
| LWF1812KT821 | 820 | ±10% | 30 | 0.796 | 2.5 | 35 | 30 |

Electrical Specifications – LWF2220 Standard

| Part Number | Inductance (mH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|--------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF2220_T122 | 1.2 | ±5, ±10% | 20 | 0.252 | 1.5 | 17 | 75 |
| LWF2220_T152 | 1.5 | ±5, ±10% | 20 | 0.252 | 1.4 | 20 | 70 |
| LWF2220_T182 | 1.8 | ±5, ±10% | 20 | 0.252 | 1.3 | 30 | 60 |
| LWF2220_T222 | 2.2 | ±5, ±10% | 20 | 0.252 | 1.2 | 35 | 55 |
| LWF2220_T272 | 2.7 | ±5, ±10% | 20 | 0.252 | 1.1 | 55 | 45 |
| LWF2220_T332 | 3.3 | ±5, ±10% | 20 | 0.252 | 1.0 | 60 | 40 |
| LWF2220_T392 | 3.9 | ±5, ±10% | 20 | 0.252 | 1.0 | 70 | 38 |
| LWF2220_T472 | 4.7 | ±5, ±10% | 20 | 0.252 | 0.9 | 78 | 36 |
| LWF2220_T562 | 5.6 | ±5, ±10% | 20 | 0.252 | 0.8 | 85 | 33 |
| LWF2220_T682 | 6.8 | ±5, ±10% | 20 | 0.252 | 0.7 | 110 | 30 |
| LWF2220_T822 | 8.2 | ±5, ±10% | 20 | 0.252 | 0.6 | 125 | 28 |
| LWF2220_T103 | 10 | ±5, ±10% | 15 | 0.0796 | 0.5 | 150 | 25 |

Electrical Specifications – LWF0603 High Current

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF0603KT47N-HC | 0.047 | ±10% | 12 | 7.9 | 2000 | 0.075 | 1800 |
| LWF0603KT51N-HC | 0.051 | ±10% | 12 | 7.9 | 1500 | 0.075 | 1800 |
| LWF0603KT68N-HC | 0.068 | ±10% | 10 | 7.9 | 1500 | 0.12 | 2200 |
| LWF0603KT72N-HC | 0.072 | ±10% | 12 | 7.9 | 1500 | 0.12 | 2200 |
| LWF0603_TR10-HC | 0.1 | ±5, ±10% | 12 | 7.9 | 1150 | 0.13 | 2200 |
| LWF0603_TR12-HC | 0.12 | ±5, ±10% | 12 | 7.9 | 1100 | 0.15 | 1900 |
| LWF0603_TR15-HC | 0.15 | ±5, ±10% | 15 | 7.9 | 1050 | 0.15 | 1800 |
| LWF0603_TR18-HC | 0.18 | ±5, ±10% | 15 | 7.9 | 950 | 0.15 | 1800 |
| LWF0603_TR22-HC | 0.22 | ±5, ±10% | 15 | 7.9 | 900 | 0.3 | 1300 |
| LWF0603_TR24-HC | 0.24 | ±5, ±10% | 15 | 7.9 | 850 | 0.16 | 1700 |
| LWF0603_TR27-HC | 0.27 | ±5, ±10% | 15 | 7.9 | 835 | 0.3 | 1400 |
| LWF0603_TR33-HC | 0.33 | ±5, ±10% | 15 | 7.9 | 725 | 0.4 | 1300 |
| LWF0603_TR39-HC | 0.39 | ±5, ±10% | 15 | 7.9 | 680 | 0.41 | 1200 |
| LWF0603_TR47-HC | 0.47 | ±5, ±10% | 15 | 7.9 | 640 | 0.43 | 1200 |
| LWF0603_TR56-HC | 0.56 | ±5, ±10% | 15 | 7.9 | 630 | 0.44 | 1200 |
| LWF0603_TR68-HC | 0.68 | ±5, ±10% | 15 | 7.9 | 510 | 0.52 | 1000 |
| LWF0603_TR78-HC | 0.78 | ±5, ±10% | 15 | 7.9 | 465 | 0.63 | 990 |
| LWF0603_TR82-HC | 0.82 | ±5, ±10% | 15 | 7.9 | 460 | 0.69 | 990 |
| LWF0603_T1R0-HC | 1 | ±5, ±10% | 15 | 7.9 | 320 | 0.81 | 850 |
| LWF0603_T1R2-HC | 1.2 | ±5, ±10% | 15 | 7.9 | 270 | 0.87 | 850 |
| LWF0603_T1R5-HC | 1.5 | ±5, ±10% | 15 | 7.9 | 230 | 0.96 | 830 |
| LWF0603_T1R8-HC | 1.8 | ±5, ±10% | 15 | 7.9 | 210 | 1.1 | 820 |
| LWF0603_T2R2-HC | 2.2 | ±5, ±10% | 15 | 7.9 | 115 | 1.2 | 720 |
| LWF0603_T2R7-HC | 2.7 | ±5, ±10% | 15 | 7.9 | 100 | 1.38 | 700 |
| LWF0603_T3R3-HC | 3.3 | ±5, ±10% | 15 | 7.9 | 84 | 1.5 | 640 |
| LWF0603_T3R9-HC | 3.9 | ±5, ±10% | 15 | 7.9 | 75 | 1.5 | 630 |
| LWF0603_T4R7-HC | 4.7 | ±5, ±10% | 15 | 7.9 | 67 | 2.1 | 530 |
| LWF0603_T5R6-HC | 5.6 | ±5, ±10% | 15 | 7.9 | 55 | 2.37 | 510 |
| LWF0603_T6R8-HC | 6.8 | ±5, ±10% | 15 | 7.9 | 48 | 3.1 | 490 |
| LWF0603_T7R8-HC | 7.8 | ±5, ±10% | 15 | 7.9 | 40 | 3.35 | 420 |
| LWF0603_T8R2-HC | 8.2 | ±5, ±10% | 15 | 7.9 | 38 | 3.5 | 450 |
| LWF0603_T100-HC | 10 | ±5, ±10% | 15 | 7.9 | 32 | 4.46 | 370 |

Electrical Specifications – LWF0805 High Current

| Part Number | Inductance (μH) | Tolerance | Q typ. | Test Freq (MHz) | SRF (MHz) typ. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|---------------|--------|-----------------|----------------|--------------|---------------|
| LWF0805 TR47-HC | 0.47 | ±10, ±20% | 14 | 7.9 | 850 | 0.156 | 1400 |
| LWF0805 TR68-HC | 0.68 | ±10, ±20% | 14 | 7.9 | 290 | 0.195 | 1200 |
| LWF0805 T1R0-HC | 1 | ±10, ±20% | 14 | 7.9 | 208 | 0.169 | 1100 |
| LWF0805 T1R2-HC | 1.2 | ±10, ±20% | 14 | 7.9 | 159 | 0.208 | 960 |
| LWF0805 T1R5-HC | 1.5 | ±10, ±20% | 14 | 7.9 | 159 | 0.221 | 920 |
| LWF0805 T1R8-HC | 1.8 | ±10, ±20% | 14 | 7.9 | 112 | 0.26 | 860 |
| LWF0805 T2R2-HC | 2.2 | ±10, ±20% | 13 | 7.9 | 87 | 0.286 | 740 |
| LWF0805 T2R7-HC | 2.7 | ±10, ±20% | 13 | 7.9 | 72 | 0.325 | 680 |
| LWF0805 T3R3-HC | 3.3 | ±10, ±20% | 12 | 7.9 | 70 | 0.364 | 620 |
| LWF0805 T3R9-HC | 3.9 | ±10, ±20% | 14 | 7.9 | 61 | 0.494 | 580 |
| LWF0805 T4R7-HC | 4.7 | ±10, ±20% | 14 | 7.9 | 51 | 0.559 | 520 |
| LWF0805 T5R6-HC | 5.6 | ±10, ±20% | 12 | 7.9 | 47 | 0.65 | 480 |
| LWF0805 T6R8-HC | 6.8 | ±10, ±20% | 14 | 7.9 | 46 | 0.884 | 420 |
| LWF0805 T8R2-HC | 8.2 | ±10, ±20% | 13 | 7.9 | 33 | 0.949 | 400 |
| LWF0805 T100-HC | 10 | ±5, ±10, ±20% | 14 | 2.5 | 31 | 1.105 | 360 |
| LWF0805 T120-HC | 12 | ±5, ±10, ±20% | 14 | 2.5 | 30 | 1.17 | 340 |
| LWF0805 T150-HC | 15 | ±5, ±10, ±20% | 15 | 2.5 | 28 | 1.82 | 300 |
| LWF0805 T180-HC | 18 | ±5, ±10, ±20% | 15 | 2.5 | 27 | 2.01 | 280 |
| LWF0805 T220-HC | 22 | ±5, ±10, ±20% | 15 | 2.5 | 20 | 2.288 | 240 |
| LWF0805 T270-HC | 27 | ±5, ±10, ±20% | 15 | 2.5 | 17 | 2.6 | 220 |
| LWF0805 T330-HC | 33 | ±5, ±10, ±20% | 15 | 2.5 | 17 | 3.055 | 200 |
| LWF0805 T470-HC | 47 | ±5, ±10, ±20% | 14 | 2.5 | 15 | 4.42 | 160 |
| LWF0805 T560-HC | 56 | ±5, ±10, ±20% | 14 | 2.5 | 10 | 5.746 | 150 |
| LWF0805 T680-HC | 68 | ±5, ±10, ±20% | 14 | 2.5 | 10 | 5.785 | 140 |
| LWF0805 T820-HC | 82 | ±5, ±10, ±20% | 14 | 2.5 | 10 | 9.75 | 100 |
| LWF0805 T101-HC | 100 | ±5, ±10, ±20% | 10 | 1 | 9 | 9.75 | 100 |

Electrical Specifications – LWF1008 High Current

| Part Number | Inductance (μH) | Tolerance | Q typ. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1008 TR10-HC | 0.1 | ±5, ±10% | 35 | 25 | 1500 | 0 | 3200 |
| LWF1008 TR22-HC | 0.22 | ±5, ±10% | 35 | 25 | 800 | 0 | 2900 |
| LWF1008 TR39-HC | 0.39 | ±5, ±10% | 35 | 25 | 460 | 0 | 2100 |
| LWF1008KTR47-HC | 0.47 | ±10% | 35 | 25 | 460 | 0 | 2100 |
| LWF1008 TR56-HC | 0.56 | ±5, ±10% | 35 | 25 | 360 | 0 | 1800 |
| LWF1008 TR68-HC | 0.68 | ±5, ±10% | 35 | 25 | 400 | 0 | 1700 |
| LWF1008 TR82-HC | 0.82 | ±5, ±10% | 35 | 25 | 360 | 0 | 1400 |
| LWF1008KT1R0-HC | 1.0 | ±10% | 32 | 8 | 340 | 0 | 1700 |
| LWF1008 T1R2-HC | 1.2 | ±5, ±10% | 25 | 8 | 300 | 0 | 1600 |
| LWF1008 T1R5-HC | 1.5 | ±5, ±10% | 32 | 8 | 230 | 0 | 1200 |
| LWF1008 T1R8-HC | 1.8 | ±5, ±10% | 27 | 8 | 180 | 0 | 1100 |
| LWF1008 T2R2-HC | 2.2 | ±5, ±10% | 27 | 8 | 140 | 1 | 1100 |
| LWF1008 T2R7-HC | 2.7 | ±5, ±10% | 27 | 8 | 130 | 1 | 1000 |
| LWF1008 T3R3-HC | 3.3 | ±5, ±10% | 27 | 8 | 125 | 1 | 1000 |
| LWF1008 T3R9-HC | 3.9 | ±5, ±10% | 27 | 8 | 100 | 1 | 990 |
| LWF1008 T4R7-HC | 4.7 | ±5, ±10% | 30 | 8 | 90 | 1 | 880 |
| LWF1008 T5R6-HC | 5.6 | ±5, ±10% | 27 | 8 | 60 | 1 | 850 |
| LWF1008 T6R8-HC | 6.8 | ±5, ±10% | 27 | 8 | 60 | 1 | 840 |
| LWF1008 T8R2-HC | 8.2 | ±5, ±10% | 25 | 8 | 55 | 1 | 810 |
| LWF1008 T100-HC | 10 | ±5, ±10% | 23 | 3 | 55 | 2 | 700 |
| LWF1008 T120-HC | 12 | ±5, ±10% | 23 | 3 | 36 | 2 | 580 |
| LWF1008 T150-HC | 15 | ±5, ±10% | 23 | 3 | 36 | 2 | 580 |
| LWF1008 T180-HC | 18 | ±5, ±10% | 23 | 3 | 32 | 3 | 520 |
| LWF1008 T220-HC | 22 | ±5, ±10% | 23 | 3 | 29 | 3 | 500 |
| LWF1008 T330-HC | 33 | ±5, ±10% | 23 | 3 | 21 | 4 | 420 |
| LWF1008 T470-HC | 47 | ±5, ±10% | 23 | 3 | 17 | 8 | 310 |

Electrical Specifications – LWF1008 High Current (cont.)

| Part Number | Inductance (μH) | Tolerance | Q typ. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1008_T101-HC | 100 | ±5, ±10% | 13 | 1 | 4 | 13 | 210 |
| LWF1008_T221-HC | 220 | ±5, ±10% | 13 | 1 | 3 | 27 | 160 |
| LWF1008_T331-HC | 330 | ±5, ±10% | 13 | 1 | 2 | 33 | 130 |

Electrical Specifications – LWF1210 High Current

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1210MT1R0-HC | 1 | ±20% | 10 | 7.96 | 145 | 0.156 | 770 |
| LWF1210MT1R5-HC | 1.5 | ±20% | 10 | 7.96 | 100 | 0.195 | 580 |
| LWF1210MT2R2-HC | 2.2 | ±20% | 10 | 7.96 | 80 | 0.26 | 480 |
| LWF1210MT3R3-HC | 3.3 | ±20% | 10 | 7.96 | 60 | 0.325 | 400 |
| LWF1210MT4R7-HC | 4.7 | ±20% | 10 | 7.96 | 50 | 0.52 | 320 |
| LWF1210MT6R8-HC | 6.8 | ±20% | 10 | 7.96 | 40 | 0.65 | 280 |
| LWF1210KT100-HC | 10 | ±10% | 15 | 2.52 | 30 | 1.105 | 220 |
| LWF1210KT150-HC | 15 | ±10% | 15 | 2.52 | 27 | 1.69 | 180 |
| LWF1210KT220-HC | 22 | ±10% | 15 | 2.52 | 22 | 2.6 | 145 |
| LWF1210KT270-HC | 27 | ±10% | 15 | 2.52 | 19 | 3 | 125 |
| LWF1210KT330-HC | 33 | ±10% | 15 | 2.52 | 17 | 3.64 | 115 |
| LWF1210KT470-HC | 47 | ±10% | 20 | 2.52 | 15 | 5.46 | 105 |
| LWF1210KT680-HC | 68 | ±10% | 20 | 2.52 | 11 | 8.45 | 85 |
| LWF1210KT820-HC | 82 | ±10% | 20 | 2.52 | 10 | 8.71 | 80 |
| LWF1210KT101-HC | 100 | ±10% | 20 | 0.796 | 9 | 10.14 | 75 |

Electrical Specifications – LWF1812 High Current

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1812KT1R0-HC | 1 | ±10% | 10 | 7.96 | 265 | 0.11 | 1050 |
| LWF1812KT1R2-HC | 1.2 | ±10% | 10 | 7.96 | 180 | 0.12 | 1000 |
| LWF1812KT1R5-HC | 1.5 | ±10% | 10 | 7.96 | 170 | 0.15 | 950 |
| LWF1812KT1R8-HC | 1.8 | ±10% | 10 | 7.96 | 105 | 0.16 | 900 |
| LWF1812KT2R2-HC | 2.2 | ±10% | 10 | 7.96 | 80 | 0.18 | 850 |
| LWF1812KT2R7-HC | 2.7 | ±10% | 10 | 7.96 | 60 | 0.20 | 800 |
| LWF1812KT3R3-HC | 3.3 | ±10% | 10 | 7.96 | 55 | 0.22 | 750 |
| LWF1812KT3R9-HC | 3.9 | ±10% | 10 | 7.96 | 45 | 0.24 | 700 |
| LWF1812KT4R7-HC | 4.7 | ±10% | 10 | 7.96 | 43 | 0.27 | 650 |
| LWF1812KT5R6-HC | 5.6 | ±10% | 10 | 7.96 | 40 | 0.3 | 650 |
| LWF1812KT6R8-HC | 6.8 | ±10% | 10 | 7.96 | 35 | 0.35 | 600 |
| LWF1812KT8R2-HC | 8.2 | ±10% | 10 | 7.96 | 30 | 0.4 | 600 |
| LWF1812KT100-HC | 10 | ±10% | 10 | 2.52 | 27 | 0.5 | 550 |
| LWF1812KT120-HC | 12 | ±10% | 10 | 2.52 | 25 | 0.6 | 500 |
| LWF1812KT150-HC | 15 | ±10% | 10 | 2.52 | 20 | 0.7 | 450 |
| LWF1812KT180-HC | 18 | ±10% | 10 | 2.52 | 19 | 0.8 | 400 |
| LWF1812KT220-HC | 22 | ±10% | 10 | 2.52 | 18 | 0.9 | 370 |
| LWF1812KT270-HC | 27 | ±10% | 10 | 2.52 | 16 | 1.2 | 330 |
| LWF1812KT330-HC | 33 | ±10% | 10 | 2.52 | 15 | 1.4 | 300 |
| LWF1812KT390-HC | 39 | ±10% | 10 | 2.52 | 13 | 1.6 | 280 |
| LWF1812KT470-HC | 47 | ±10% | 10 | 2.52 | 12.0 | 1.9 | 260 |
| LWF1812KT560-HC | 56 | ±10% | 10 | 2.52 | 10 | 2.2 | 240 |
| LWF1812KT680-HC | 68 | ±10% | 10 | 2.52 | 10 | 2.6 | 220 |
| LWF1812KT820-HC | 82 | ±10% | 10 | 2.52 | 9 | 3.5 | 200 |
| LWF1812KT101-HC | 100 | ±10% | 20 | 0.796 | 8 | 4 | 180 |
| LWF1812KT121-HC | 120 | ±10% | 20 | 0.796 | 7.0 | 4.5 | 160 |
| LWF1812KT151-HC | 150 | ±10% | 20 | 0.796 | 7 | 6.5 | 140 |
| LWF1812KT181-HC | 180 | ±10% | 20 | 0.796 | 6.0 | 7.5 | 120 |
| LWF1812KT221-HC | 220 | ±10% | 20 | 0.796 | 5.5 | 9 | 120 |
| LWF1812KT271-HC | 270 | ±10% | 20 | 0.796 | 5 | 11 | 100 |

Electrical Specifications – LWF1812 High Current (cont.)

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF1812KT331-HC | 330 | ±10% | 20 | 0.796 | 5 | 13 | 90 |
| LWF1812KT391-HC | 390 | ±10% | 20 | 0.796 | 4.0 | 14 | 85 |
| LWF1812KT471-HC | 470 | ±10% | 20 | 0.796 | 3.5 | 16 | 75 |
| LWF1812KT561-HC | 560 | ±10% | 20 | 0.796 | 3.0 | 21 | 70 |
| LWF1812KT681-HC | 680 | ±10% | 20 | 0.796 | 2.5 | 24 | 65 |

Electrical Specifications – LWF2220 High Current

| Part Number | Inductance (μH) | Tolerance | Q min. | Test Freq (MHz) | SRF (MHz) min. | DCR (Ω) max. | IDC (mA) max. |
|-----------------|-----------------|-----------|--------|-----------------|----------------|--------------|---------------|
| LWF2220 T1R0-HC | 1 | ±10, ±20% | 10 | 7.96 | 95 | 0.03 | 1800 |
| LWF2220 T1R2-HC | 1.2 | ±10, ±20% | 10 | 7.96 | 70 | 0.035 | 1700 |
| LWF2220 T1R5-HC | 1.5 | ±10, ±20% | 10 | 7.96 | 55 | 0.04 | 1600 |
| LWF2220 T1R8-HC | 1.8 | ±10, ±20% | 10 | 7.96 | 47 | 0.05 | 1400 |
| LWF2220 T2R2-HC | 2.2 | ±10, ±20% | 10 | 7.96 | 42 | 0.06 | 1300 |
| LWF2220 T2R7-HC | 2.7 | ±10, ±20% | 10 | 7.96 | 37 | 0.07 | 1200 |
| LWF2220 T3R3-HC | 3.3 | ±10, ±20% | 10 | 7.96 | 34 | 0.08 | 1120 |
| LWF2220 T3R9-HC | 3.9 | ±10, ±20% | 10 | 7.96 | 32 | 0.09 | 1050 |
| LWF2220 T4R7-HC | 4.7 | ±10, ±20% | 10 | 7.96 | 29 | 0.11 | 950 |
| LWF2220 T5R6-HC | 5.6 | ±10, ±20% | 10 | 7.96 | 26 | 0.13 | 880 |
| LWF2220 T6R8-HC | 6.8 | ±10, ±20% | 10 | 7.96 | 24 | 0.15 | 810 |
| LWF2220 T8R2-HC | 8.2 | ±10, ±20% | 10 | 7.96 | 22 | 0.18 | 750 |
| LWF2220 T100-HC | 10 | ±10, ±20% | 10 | 2.52 | 19 | 0.21 | 690 |
| LWF2220 T120-HC | 12 | ±10, ±20% | 10 | 2.52 | 17 | 0.25 | 630 |
| LWF2220 T150-HC | 15 | ±10, ±20% | 10 | 2.52 | 16 | 0.3 | 580 |
| LWF2220 T180-HC | 18 | ±10, ±20% | 10 | 2.52 | 14 | 0.36 | 530 |
| LWF2220 T220-HC | 22 | ±5, ±10% | 10 | 2.52 | 13 | 0.43 | 480 |
| LWF2220 T270-HC | 27 | ±5, ±10% | 10 | 2.52 | 11.5 | 0.52 | 440 |
| LWF2220 T330-HC | 33 | ±5, ±10% | 10 | 2.52 | 10.5 | 0.62 | 400 |
| LWF2220 T390-HC | 39 | ±5, ±10% | 10 | 2.52 | 9.5 | 0.72 | 370 |
| LWF2220 T470-HC | 47 | ±5, ±10% | 10 | 2.52 | 8.5 | 0.85 | 340 |
| LWF2220 T560-HC | 56 | ±5, ±10% | 10 | 2.52 | 7.8 | 1.0 | 310 |
| LWF2220 T680-HC | 68 | ±5, ±10% | 10 | 2.52 | 7 | 1.2 | 290 |
| LWF2220 T820-HC | 82 | ±5, ±10% | 10 | 2.52 | 6.4 | 1.4 | 270 |
| LWF2220 T101-HC | 100 | ±5, ±10% | 20 | 0.796 | 6 | 1.6 | 250 |
| LWF2220 T121-HC | 120 | ±5, ±10% | 20 | 0.796 | 5.4 | 1.9 | 230 |
| LWF2220 T151-HC | 150 | ±5, ±10% | 20 | 0.796 | 4.8 | 2.2 | 210 |
| LWF2220 T181-HC | 180 | ±5, ±10% | 20 | 0.796 | 4.4 | 2.8 | 190 |
| LWF2220 T221-HC | 220 | ±5, ±10% | 20 | 0.796 | 3.9 | 3.4 | 170 |
| LWF2220 T271-HC | 270 | ±5, ±10% | 20 | 0.796 | 3.6 | 4.2 | 155 |
| LWF2220 T331-HC | 330 | ±5, ±10% | 20 | 0.796 | 3.2 | 4.9 | 140 |
| LWF2220 T391-HC | 390 | ±5, ±10% | 20 | 0.796 | 2.9 | 5.8 | 130 |
| LWF2220 T471-HC | 470 | ±5, ±10% | 20 | 0.796 | 2.6 | 7.0 | 120 |
| LWF2220 T561-HC | 560 | ±5, ±10% | 20 | 0.796 | 2.4 | 8.5 | 110 |
| LWF2220 T681-HC | 680 | ±5, ±10% | 20 | 0.796 | 2.2 | 10 | 100 |
| LWF2220 T821-HC | 820 | ±5, ±10% | 20 | 0.796 | 2 | 13 | 90 |
| LWF2220 T102-HC | 1000 | ±5, ±10% | 20 | 0.252 | 1.8 | 15 | 85 |

Electrical Performance Test

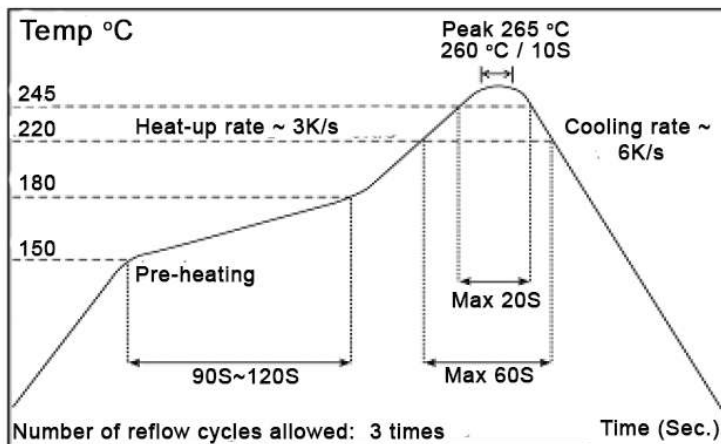
| Test | Test Specification | Test Condition |
|-------------------|---|--|
| Inductance | Refer to Electrical Specifications tables | HP4291 or HP4284 |
| Q | | HP4291 or HP4284 |
| SRF | | HP4291 |
| DC Resistance RDC | | Agilent 34401A |
| Rated Current IDC | | Applied the current to coils. The inductance change should be less than 10% to initial value |

| Mechanical Performance Test | | |
|------------------------------|--|--|
| Test | Test Specification | Test Condition |
| Solderability | The electrodes shall be at least 90% covered with new solder coating | Lead-free inductor: after fluxing (alpha 100 or equivalent), inductor shall be dipped in a melted solder bath at 245±5°C, 5±0.5 seconds |
| Resistance to Soldering Heat | Appearance: No damage | Pre-heating: 150°C, 1 minute Solder Temperature: 260±5°C Immersion Time: 10±1 seconds |
| Vibration | Appearance: No damage L change: within ±10% Q change: within ±30% DCR: within specification | Test device shall be soldered on the substrate Oscillation Frequency: 10 to 55 to 10Hz for 1 minute Amplitude: 1.5 mm Time: 2 hours for each axis (X, Y and Z), total 6 hours |

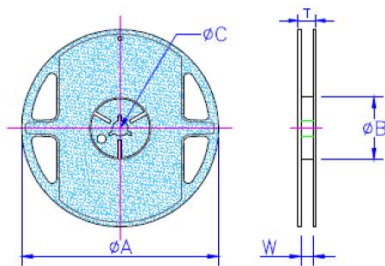
| Climatic Test | | | | | | | | | | | | | | | | | |
|--------------------------|---|--|-------------|------------------|-------------|---|---------|----|---|--------|---|---|--------|----|---|--------|---|
| Test | Test Specification | Test Condition | | | | | | | | | | | | | | | |
| Temperature Cycle | Appearance: No damage L change: within ± 10% Q change: within ± 30% DCR: within specification | One Cycle: <table border="1" style="margin-left: 20px;"> <thead> <tr> <th>Step</th> <th>Temperature (°C)</th> <th>Time (min.)</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>-25 ± 3</td> <td>30</td> </tr> <tr> <td>2</td> <td>25 ± 2</td> <td>3</td> </tr> <tr> <td>3</td> <td>85 ± 3</td> <td>30</td> </tr> <tr> <td>4</td> <td>25 ± 2</td> <td>3</td> </tr> </tbody> </table> | Step | Temperature (°C) | Time (min.) | 1 | -25 ± 3 | 30 | 2 | 25 ± 2 | 3 | 3 | 85 ± 3 | 30 | 4 | 25 ± 2 | 3 |
| Step | | Temperature (°C) | Time (min.) | | | | | | | | | | | | | | |
| 1 | | -25 ± 3 | 30 | | | | | | | | | | | | | | |
| 2 | | 25 ± 2 | 3 | | | | | | | | | | | | | | |
| 3 | 85 ± 3 | 30 | | | | | | | | | | | | | | | |
| 4 | 25 ± 2 | 3 | | | | | | | | | | | | | | | |
| Damp Heat with Load | Total: 100 cycles Measured after exposure in the room condition for 24 hours | Temperature: 40 ± 2°C Relative Humidity: 90~95% Time: 1000 hours Measured after exposure in the room condition for 24 hours | | | | | | | | | | | | | | | |
| High Temperature Storage | Temperature: 85 ± 3°C Applied current: Rated current Time: 1000 hours Measured after exposure in the room condition for 24 hours | | | | | | | | | | | | | | | | |
| Low Temperature Storage | Temperature : -25 ± 3°C Time: 1000 hours Measured after exposure in the room condition for 24 hours | | | | | | | | | | | | | | | | |

Storage Temperature: 25 ± 3°C. Humidity < 80% R.H.
Operating Temperature Range: -40 ~ +85 °C

Reflow Chart:

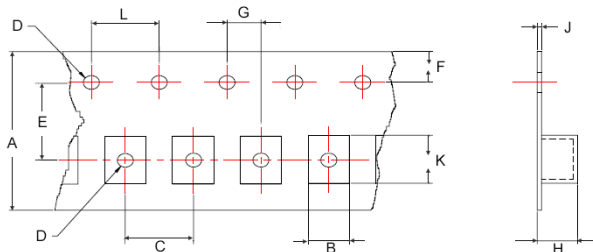


Packaging Specifications



| Type/Code | A | B | C | W | T | Unit |
|-----------|----------------|---------------|---------------|---------------|---------------|--------|
| LWF0603 | 7.008 ± 0.079 | 2.362 ± 0.020 | 0.512 ± 0.012 | 0.354 ± 0.012 | 0.472 ± 0.039 | inches |
| | 178.00 ± 2.00 | 60.00 ± 0.50 | 13.00 ± 0.30 | 9.00 ± 0.30 | 12.00 ± 1.00 | mm |
| LWF0805 | 7.008 ± 0.079 | 2.362 ± 0.020 | 0.512 ± 0.012 | 0.354 ± 0.012 | 0.472 ± 0.039 | inches |
| | 178.00 ± 2.00 | 60.00 ± 0.50 | 13.00 ± 0.30 | 9.00 ± 0.30 | 12.00 ± 1.00 | mm |
| LWF1008 | 7.008 ± 0.079 | 2.362 ± 0.020 | 0.512 ± 0.012 | 0.354 ± 0.012 | 0.472 ± 0.039 | inches |
| | 178.00 ± 2.00 | 60.00 ± 0.50 | 13.00 ± 0.30 | 9.00 ± 0.30 | 12.00 ± 1.00 | mm |
| LWF1210 | 7.008 ± 0.079 | 2.362 ± 0.020 | 0.512 ± 0.012 | 0.354 ± 0.012 | 0.472 ± 0.039 | inches |
| | 178.00 ± 2.00 | 60.00 ± 0.50 | 13.00 ± 0.30 | 9.00 ± 0.30 | 12.00 ± 1.00 | mm |
| LWF1812 | 7.008 ± 0.079 | 3.150 ± 0.020 | 0.512 ± 0.012 | 0.520 ± 0.012 | 0.630 ± 0.039 | inches |
| | 178.00 ± 2.00 | 80.00 ± 0.50 | 13.00 ± 0.30 | 13.20 ± 0.30 | 16.00 ± 1.00 | mm |
| LWF2220 | 12.992 ± 0.079 | 3.937 ± 0.020 | 0.512 ± 0.012 | 0.685 ± 0.012 | 0.866 ± 0.039 | inches |
| | 330.00 ± 2.00 | 100.00 ± 0.50 | 13.00 ± 0.30 | 17.40 ± 0.30 | 22.00 ± 1.00 | mm |

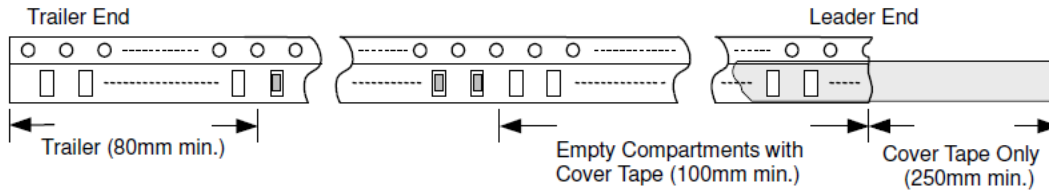
Embossed Plastic Tape Specifications



| Type/Code | A | B | C | E | F | D | Unit |
|-----------|---------------|---------------|---------------|---------------|---------------|--------|--------|
| LWF0603 | 0.315 ± 0.008 | 0.049 ± 0.004 | 0.157 ± 0.004 | 0.138 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 8.00 ± 0.20 | 1.25 ± 0.10 | 4.00 ± 0.10 | 3.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| LWF0805 | 0.315 ± 0.008 | 0.073 ± 0.004 | 0.157 ± 0.004 | 0.138 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 8.00 ± 0.20 | 1.85 ± 0.10 | 4.00 ± 0.10 | 3.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| LWF1008 | 0.315 ± 0.008 | 0.110 ± 0.004 | 0.157 ± 0.004 | 0.138 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 8.00 ± 0.20 | 2.80 ± 0.10 | 4.00 ± 0.10 | 3.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| LWF1210 | 0.315 ± 0.008 | 0.117 ± 0.004 | 0.157 ± 0.004 | 0.138 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 8.00 ± 0.20 | 2.96 ± 0.10 | 4.00 ± 0.10 | 3.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| Type/Code | G | H | J | K | L | Unit | |
| LWF0603 | 0.079 ± 0.002 | 0.039 ± 0.002 | 0.009 ± 0.002 | 0.075 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 1.00 ± 0.05 | 0.23 ± 0.05 | 1.90 ± 0.10 | 4.00 ± 0.10 | mm | |
| LWF0805 | 0.079 ± 0.002 | 0.057 ± 0.002 | 0.009 ± 0.002 | 0.100 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 1.45 ± 0.05 | 0.23 ± 0.05 | 2.55 ± 0.10 | 4.00 ± 0.10 | mm | |
| LWF1008 | 0.079 ± 0.002 | 0.087 ± 0.002 | 0.009 ± 0.002 | 0.116 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 2.22 ± 0.05 | 0.23 ± 0.05 | 2.95 ± 0.10 | 4.00 ± 0.10 | mm | |
| LWF1210 | 0.079 ± 0.002 | 0.094 ± 0.002 | 0.009 ± 0.002 | 0.142 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 2.40 ± 0.05 | 0.23 ± 0.05 | 3.60 ± 0.10 | 4.00 ± 0.10 | mm | |

| Embossed Plastic Tape Specifications (cont.) | | | | | | | |
|--|---------------|---------------|---------------|---------------|---------------|--------|--------|
| Type/Code | A | B | C | E | F | D | Unit |
| LWF1812 | 0.472 ± 0.008 | 0.130 ± 0.004 | 0.315 ± 0.004 | 0.217 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 12.00 ± 0.20 | 3.30 ± 0.10 | 8.00 ± 0.10 | 5.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| LWF2220 | 0.630 ± 0.008 | 0.211 ± 0.004 | 0.472 ± 0.004 | 0.295 ± 0.002 | 0.069 ± 0.004 | 0.059 | inches |
| | 16.00 ± 0.20 | 5.35 ± 0.10 | 12.00 ± 0.10 | 7.50 ± 0.05 | 1.75 ± 0.10 | 1.50 | mm |
| Type/Code | G | H | J | K | L | Unit | |
| LWF1812 | 0.079 ± 0.002 | 0.138 ± 0.002 | 0.012 ± 0.002 | 0.197 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 3.50 ± 0.05 | 0.30 ± 0.05 | 5.00 ± 0.10 | 4.00 ± 0.10 | mm | |
| LWF2220 | 0.079 ± 0.002 | 0.217 ± 0.002 | 0.014 ± 0.002 | 0.240 ± 0.004 | 0.157 ± 0.004 | inches | |
| | 2.00 ± 0.05 | 5.50 ± 0.05 | 0.35 ± 0.05 | 6.10 ± 0.10 | 4.00 ± 0.10 | mm | |

Leader / Trailer Tape



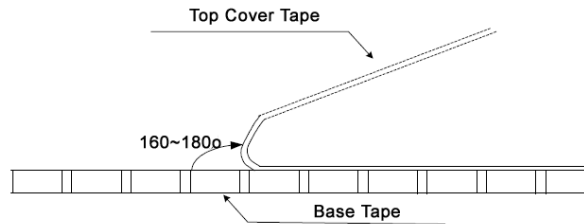
Cover Tape Peel Strength

The force for tearing off cover tape is 0.1~0.6(N) in the arrow direction at the following conditions:

Temperature: 5 ~ 35 °C

Humidity: 45 ~ 85%

Atmospheric pressure: 860 ~ 1060 hpa



RoHS Compliance

Stackpole Electronics has joined the worldwide effort to reduce the amount of lead in electronic components and to meet the various regulatory requirements now prevalent, such as the European Union’s directive regarding “Restrictions on Hazardous Substances” (RoHS 3). As part of this ongoing program, we periodically update this document with the status regarding the availability of our compliant components. All our standard part numbers are compliant to EU Directive 2011/65/EU of the European Parliament as amended by Directive (EU) 2015/863/EU as regards the list of restricted substances.

| RoHS Compliance Status | | | | | | |
|-------------------------|--|----------------------------|--------------------------------|-----------------------------------|--|---------------------------------------|
| Standard Product Series | Description | Package / Termination Type | Standard Series RoHS Compliant | Lead-Free Termination Composition | Lead-Free Mfg. Effective Date (Std Product Series) | Lead-Free Effective Date Code (YY/WW) |
| LWF | Surface Mount Ferrite Wirewound Inductor | SMD | YES | 100% Matte Sn | Aug-05 | 05/31 |

“Conflict Metals” Commitment

We at Stackpole Electronics, Inc. are joined with our industry in opposing the use of metals mined in the “conflict region” of the eastern Democratic Republic of the Congo (DRC) in our products. Recognizing that the supply chain for metals used in the electronics industry is very complex, we work closely with our own suppliers to verify to the extent possible that the materials and products we supply do not contain metals sourced from this conflict region. As such, we are in compliance with the requirements of Dodd-Frank Act regarding Conflict Minerals.

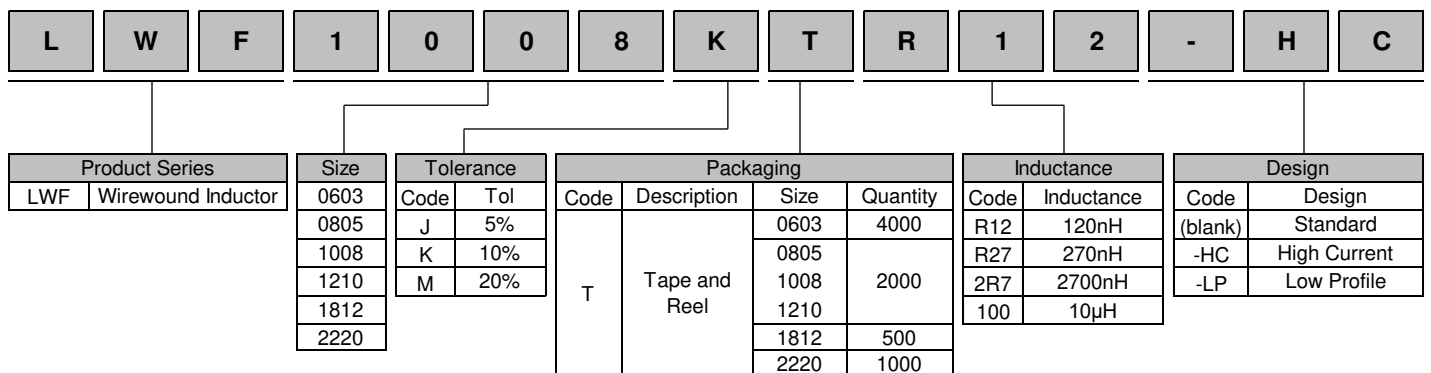
Compliance to “REACH”

We certify that all passive components supplied by Stackpole Electronics, Inc. are SVHC (Substances of Very High Concern) free and compliant with the requirements of EU Directive 1907/2006/EC, “The Registration, Evaluation, Authorization and Restriction of Chemicals”, otherwise referred to as REACH. Contact us for complete list of REACH Substance Candidate List.

Environmental Policy

It is the policy of Stackpole Electronics, Inc. (SEI) to protect the environment in all localities in which we operate. We continually strive to improve our effect on the environment. We observe all applicable laws and regulations regarding the protection of our environment and all requests related to the environment to which we have agreed. We are committed to the prevention of all forms of pollution.

How to Order



Legacy Part Number:

