

LVF Series



LVF series, an automatic assembly constructed power inductor, is shielded with magnetic resin and suitable for portable DC-DC converter applications.

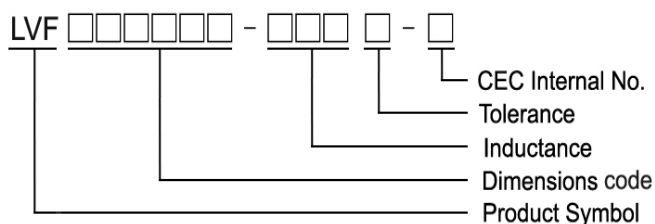
Features

- RoHS, Halogen Free and REACH Compliance
- Shielded with magnetic resin
- Various package size and wide inductance range
- Optimize electrical characteristics by using different ferrite core figures

Applications

- Smartphones, tablets and wearable devices
- DSC, camcorders
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification



Shape and Dimensions

Figure 1

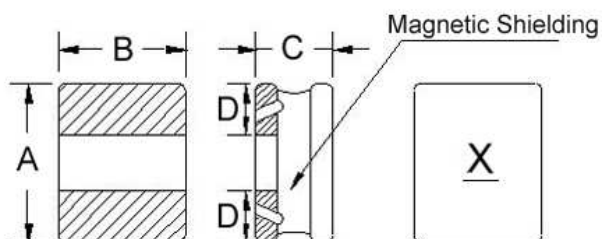
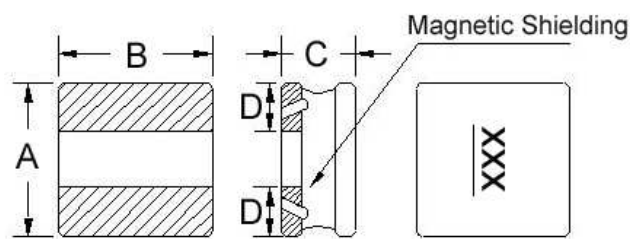


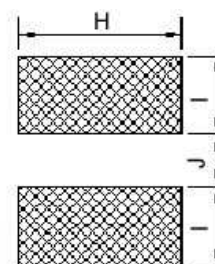
Figure 2



Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|-----------|-----|----------|----------|----------|-----|-----|------|-----|
| LVF201B12 | 1 | 2.0±0.25 | 1.6±0.25 | 1.2±0.05 | 0.6 | 1.8 | 0.8 | 0.8 |
| LVF252A10 | 1 | 2.5±0.25 | 2.0±0.25 | 1.02 Max | 0.8 | 2.2 | 0.85 | 0.8 |
| LVF252A12 | 1 | 2.5±0.25 | 2.0±0.25 | 1.2±0.05 | 0.8 | 2.2 | 0.85 | 0.8 |
| LVF303010 | 2 | 3.0±0.20 | 3.0±0.20 | 1.02 Max | 1.0 | 3.2 | 1.1 | 1.0 |
| LVF303012 | 2 | 3.0±0.20 | 3.0±0.20 | 1.2 Max | 1.0 | 3.2 | 1.1 | 1.0 |
| LVF303015 | 2 | 3.0±0.20 | 3.0±0.20 | 1.5 Max | 1.0 | 3.2 | 1.1 | 1.0 |
| LVF404012 | 2 | 4.0±0.20 | 4.0±0.20 | 1.2±0.1 | 1.5 | 4.2 | 1.5 | 1.2 |

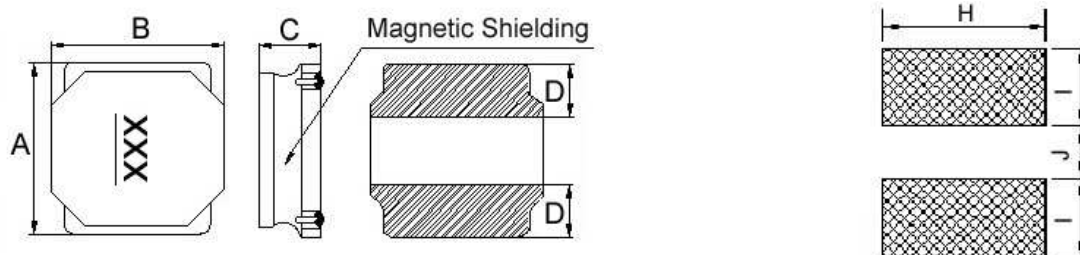
Recommended Pattern



Shape and Dimensions

Recommended Pattern

Figure 3



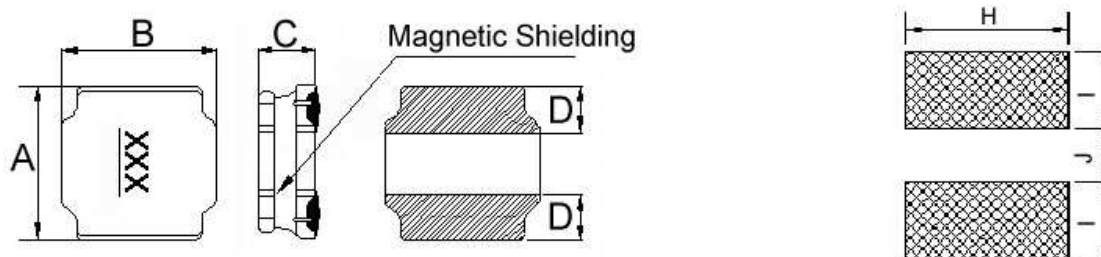
Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|-----------|-----|----------|----------|---------|---------|-----|-----|-----|
| LVF404015 | 3 | 4.0±0.25 | 4.0±0.25 | 1.5±0.2 | 1.3 | 3.7 | 1.5 | 1.2 |
| LVF404018 | 3 | 4.0±0.20 | 4.0±0.20 | 1.8±0.2 | 1.3 | 3.7 | 1.5 | 1.2 |
| LVF404026 | 3 | 4.0±0.20 | 4.0±0.25 | 2.6±0.2 | 1.4 | 3.7 | 1.6 | 1.2 |
| LVF606028 | 3 | 6.0±0.20 | 6.0±0.20 | 2.8±0.2 | 1.9±0.3 | 5.7 | 1.8 | 2.6 |

Shapes and Dimensions

Recommended Pattern

Figure 4



Dimensions in mm

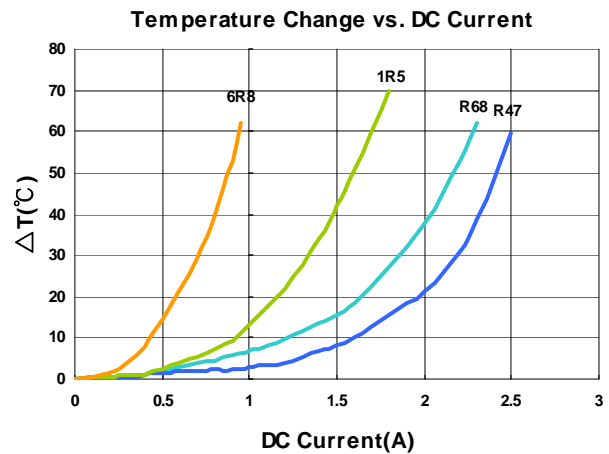
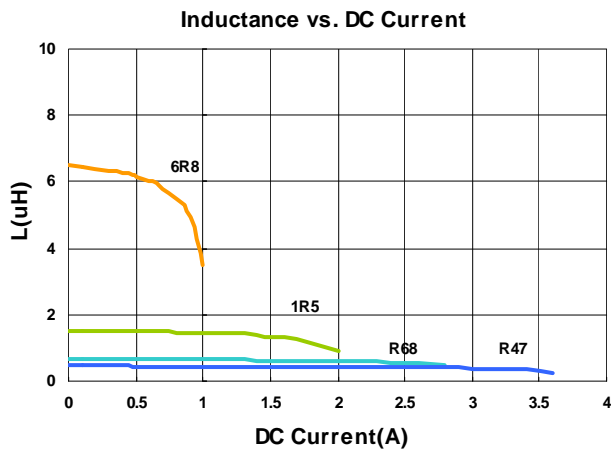
| TYPE | FIG | A | B | C | D | H | I | J |
|-----------|-----|----------|----------|--------------------------------------|---------|-----|-----|-----|
| LVF505020 | 4 | 5.0±0.20 | 5.0±0.20 | 2.0±0.2 | 1.8 | 4.2 | 1.6 | 2.0 |
| LVF606020 | 4 | 6.0±0.20 | 6.0±0.20 | 2.0±0.2 | 1.7±0.3 | 5.7 | 1.7 | 2.8 |
| LVF808040 | 4 | 8.0±0.20 | 8.0±0.20 | 4.0 ^{+0.2} _{-0.30} | 2.3±0.3 | 7.5 | 2.5 | 3.4 |

Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF201B12-R47□-N | 0.47 | 1 | 20, 30 | 0.051 | 2.70(2.43) | 2.30(2.07) | A |
| LVF201B12-R68□-N | 0.68 | 1 | 20, 30 | 0.074 | 2.20(1.98) | 2.00(1.80) | L |
| LVF201B12-1R5□-N | 1.5 | 1 | 20, 30 | 0.130 | 1.60(1.44) | 1.45(1.30) | D |
| LVF201B12-6R8□-N | 6.8 | 1 | 20, 30 | 0.465 | 0.82(0.73) | 0.78(0.70) | H |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4287A+ Agilent/HP16197A, 1MHz 200mV
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & I rms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

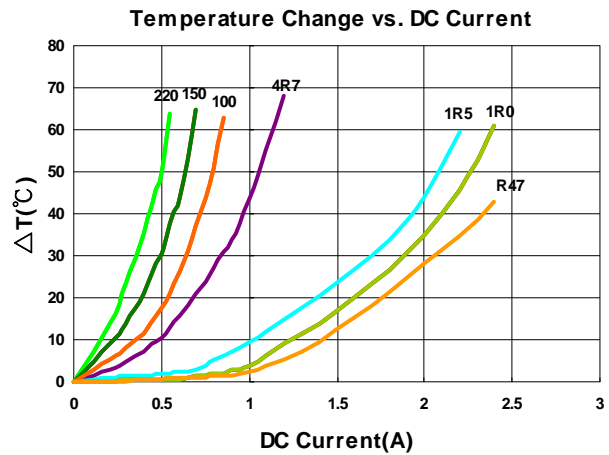
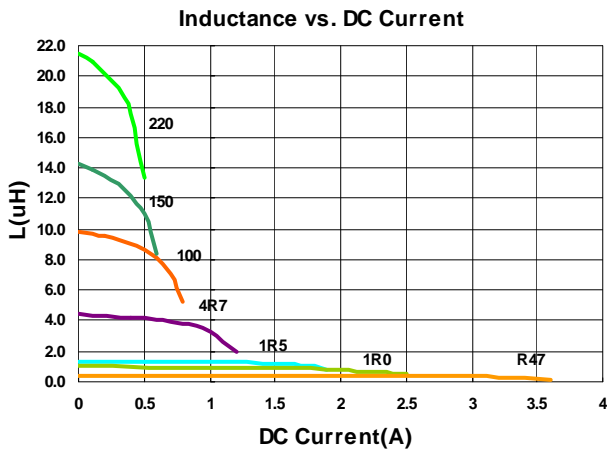


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF252A10-R47□-N | 0.47 | 1 | 20, 30 | 0.045 | 2.80(2.52) | 2.30(2.07) | A |
| LVF252A10-1R0□-N | 1.0 | 1 | 20, 30 | 0.066 | 1.98(1.78) | 2.05(1.84) | B |
| LVF252A10-1R5□-N | 1.5 | 1 | 20, 30 | 0.095 | 1.70(1.53) | 1.85(1.66) | C |
| LVF252A10-4R7□-N | 4.7 | 1 | 20, 30 | 0.285 | 0.92(0.82) | 0.95(0.85) | F |
| LVF252A10-100□-N | 10 | 1 | 20, 30 | 0.535 | 0.60(0.54) | 0.70(0.63) | H |
| LVF252A10-150□-N | 15 | 1 | 20, 30 | 0.810 | 0.50(0.45) | 0.55(0.49) | I |
| LVF252A10-220□-N | 22 | 1 | 20, 30 | 1.200 | 0.40(0.36) | 0.44(0.39) | J |

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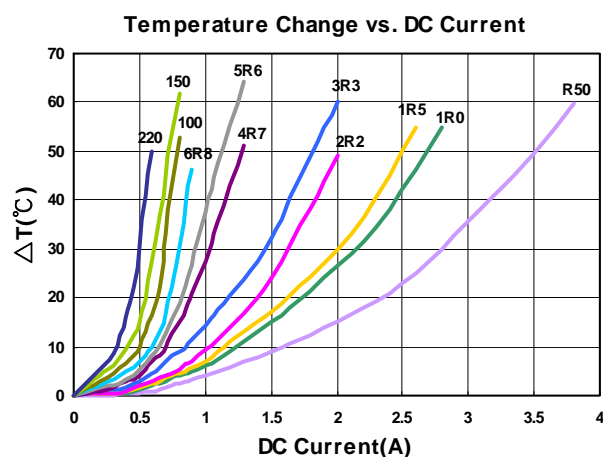
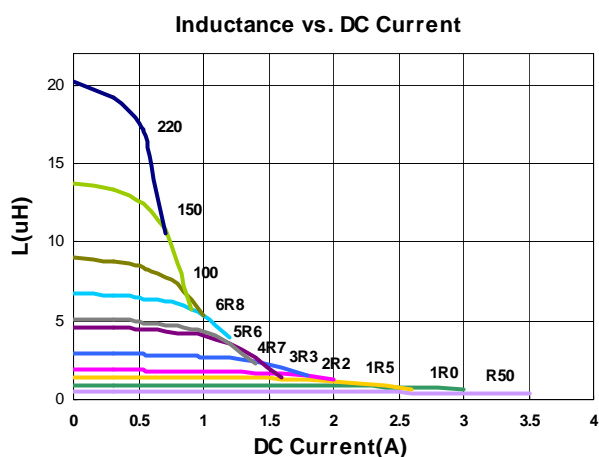


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF252A12-R50□-N | 0.50 | 1 | 20, 30 | 0.028 | 3.50(3.15) | 3.00(2.70) | B |
| LVF252A12-1R0□-N | 1.0 | 1 | 20, 30 | 0.050 | 2.50(2.25) | 2.40(2.16) | C |
| LVF252A12-1R2□-N | 1.2 | 1 | 20, 30 | 0.053 | 2.10(1.89) | 2.35(2.11) | D |
| LVF252A12-1R5□-N | 1.5 | 1 | 20, 30 | 0.068 | 1.95(1.75) | 2.30(2.07) | E |
| LVF252A12-2R2□-N | 2.2 | 1 | 20, 30 | 0.080 | 1.80(1.62) | 1.80(1.62) | F |
| LVF252A12-3R3□-N | 3.3 | 1 | 20, 30 | 0.130 | 1.45(1.30) | 1.50(1.35) | G |
| LVF252A12-4R7□-N | 4.7 | 1 | 20, 30 | 0.190 | 1.10(0.99) | 1.10(0.99) | H |
| LVF252A12-5R6□-N | 5.6 | 1 | 20, 30 | 0.210 | 1.05(0.94) | 1.00(0.90) | I |
| LVF252A12-6R8□-N | 6.8 | 1 | 20, 30 | 0.300 | 0.95(0.85) | 0.80(0.72) | J |
| LVF252A12-100□-N | 10 | 1 | 20, 30 | 0.385 | 0.88(0.79) | 0.70(0.63) | K |
| LVF252A12-150□-N | 15 | 1 | 20, 30 | 0.570 | 0.68(0.61) | 0.62(0.55) | L |
| LVF252A12-220□-N | 22 | 1 | 20, 30 | 0.810 | 0.55(0.49) | 0.53(0.47) | M |

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- I rms for a 40°C rise above 25°C ambient
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Test Instruments : HP4284A Material/Impedance Analyzer

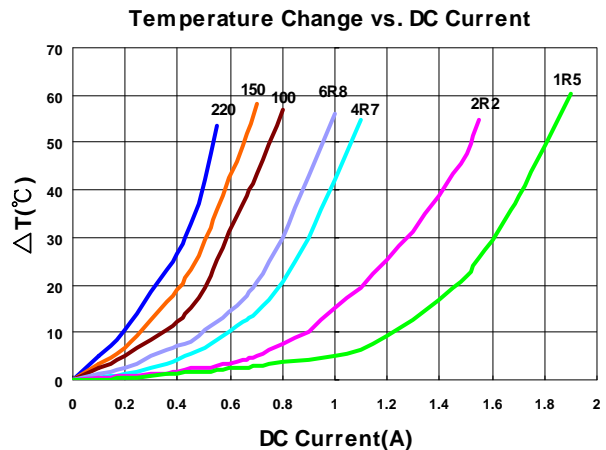
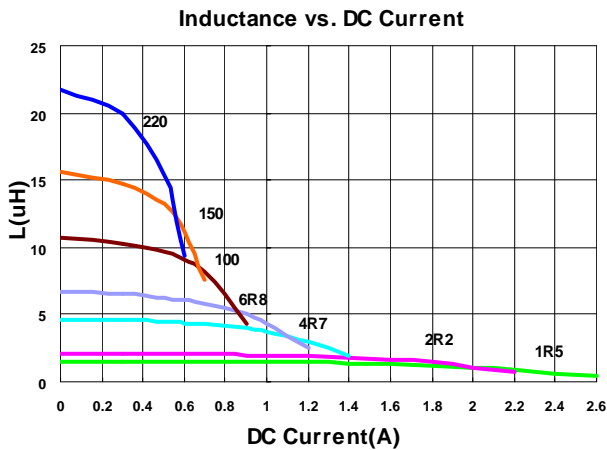


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF303010-1R5□-N | 1.5 | 1 | 20, 30 | 0.085 | 1.80(1.62) | 1.70(1.53) | 1R5 |
| LVF303010-2R2□-N | 2.2 | 1 | 20, 30 | 0.100 | 1.50(1.35) | 1.40(1.26) | 2R2 |
| LVF303010-4R7□-N | 4.7 | 1 | 20, 30 | 0.205 | 1.00(0.90) | 0.95(0.85) | 4R7 |
| LVF303010-6R8□-N | 6.8 | 1 | 20, 30 | 0.310 | 0.87(0.78) | 0.85(0.76) | 6R8 |
| LVF303010-100□-N | 10 | 1 | 20, 30 | 0.430 | 0.64(0.57) | 0.63(0.56) | 100 |
| LVF303010-150□-N | 15 | 1 | 20, 30 | 0.625 | 0.56(0.50) | 0.55(0.49) | 150 |
| LVF303010-220□-N | 22 | 1 | 20, 30 | 0.870 | 0.47(0.42) | 0.46(0.41) | 220 |

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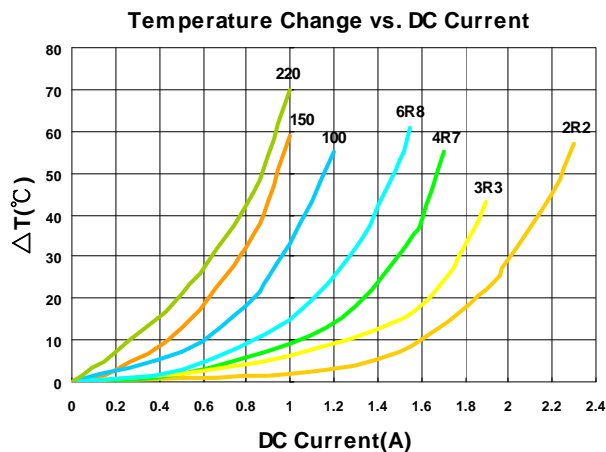
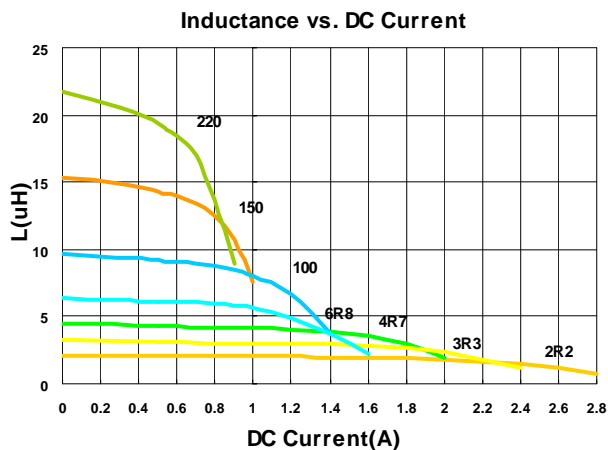


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF303012-2R2□-N | 2.2 | 1 | 20, 30 | 0.092 | 2.10(1.89) | 2.00(1.80) | 2R2 |
| LVF303012-3R3□-N | 3.3 | 1 | 20, 30 | 0.13 | 1.84(1.65) | 1.80(1.62) | 3R3 |
| LVF303012-4R7□-N | 4.7 | 1 | 20, 30 | 0.18 | 1.56(1.40) | 1.52(1.36) | 4R7 |
| LVF303012-6R8□-N | 6.8 | 1 | 20, 30 | 0.25 | 1.32(1.18) | 1.30(1.17) | 6R8 |
| LVF303012-100□-N | 10 | 1 | 20, 30 | 0.42 | 1.06(0.95) | 1.00(0.90) | 100 |
| LVF303012-150□-N | 15 | 1 | 20, 30 | 0.56 | 0.82(0.73) | 0.80(0.72) | 150 |
| LVF303012-220□-N | 22 | 1 | 20, 30 | 0.86 | 0.64(0.57) | 0.62(0.55) | 220 |

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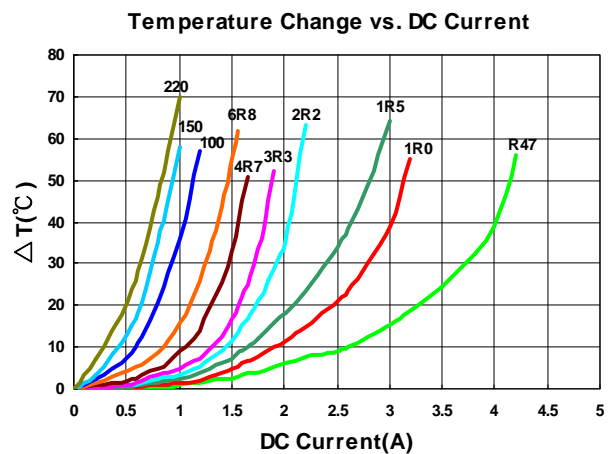
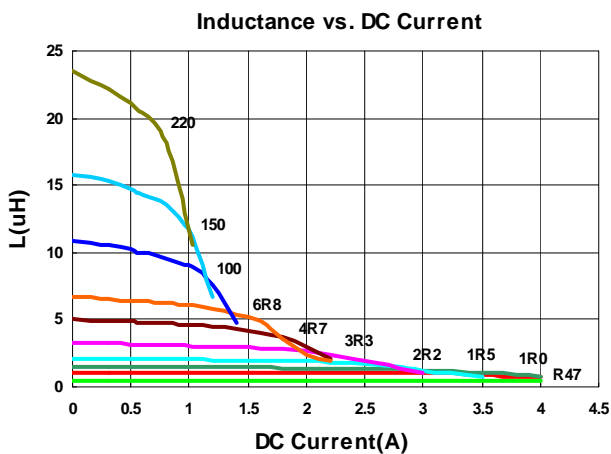


Electrical Characteristics

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|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF303015-R47□-N | 0.47 | 1 | 20, 30 | 0.036 | 4.7(4.23) | 4.0(3.60) | R47 |
| LVF303015-1R0□-N | 1.0 | 1 | 20, 30 | 0.054 | 3.4(3.06) | 3.0(2.70) | 1R0 |
| LVF303015-1R5□-N | 1.5 | 1 | 20, 30 | 0.063 | 3.0(2.70) | 2.6(2.34) | 1R5 |
| LVF303015-2R2□-N | 2.2 | 1 | 20, 30 | 0.090 | 2.3(2.07) | 2.0(1.80) | 2R2 |
| LVF303015-3R3□-N | 3.3 | 1 | 20, 30 | 0.125 | 1.9(1.71) | 1.80(1.62) | 3R3 |
| LVF303015-4R7□-N | 4.7 | 1 | 20, 30 | 0.170 | 1.58(1.42) | 1.52(1.36) | 4R7 |
| LVF303015-6R8□-N | 6.8 | 1 | 20, 30 | 0.235 | 1.34(1.20) | 1.30(1.17) | 6R8 |
| LVF303015-100□-N | 10 | 1 | 20, 30 | 0.360 | 1.06(0.95) | 1.00(0.90) | 100 |
| LVF303015-150□-N | 15 | 1 | 20, 30 | 0.550 | 0.90(0.81) | 0.80(0.72) | 150 |
| LVF303015-220□-N | 22 | 1 | 20, 30 | 0.770 | 0.76(0.68) | 0.65(0.58) | 220 |
| LVF303015-470□-N | 47 | 1 | 20, 30 | 1.500 | 0.52(0.46) | 0.42(0.37) | 470 |

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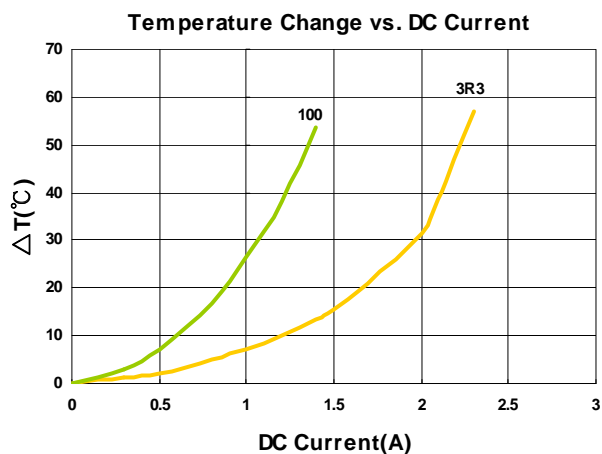
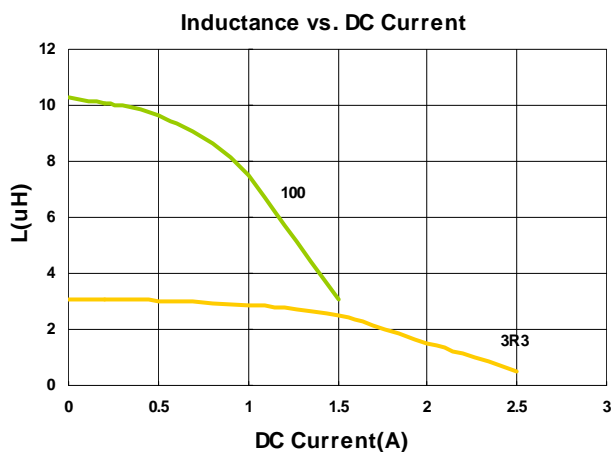


Electrical Characteristics

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|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF404012-3R3□-N | 3.3 | 1 | 20, 30 | 0.072 | 1.52(1.36) | 2.10(1.89) | 3R3 |
| LVF404012-100□-N | 10 | 1 | 20, 30 | 0.190 | 0.90(0.81) | 1.20(1.08) | 100 |

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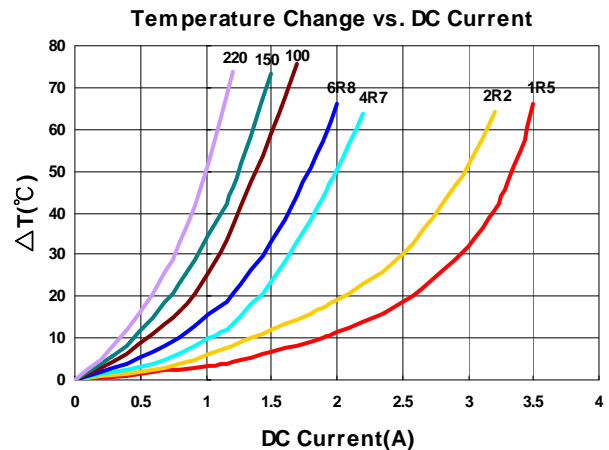
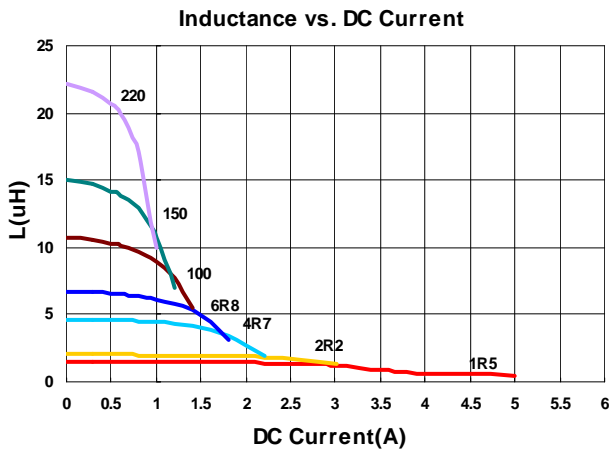


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|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF404015-1R5□-N | 1.5 | 1 | 20, 30 | 0.041 | 3.00(2.70) | 3.2(2.88) | 1R5 |
| LVF404015-2R2□-N | 2.2 | 1 | 20, 30 | 0.054 | 2.30(2.07) | 2.60(2.34) | 2R2 |
| LVF404015-4R7□-N | 4.7 | 1 | 20, 30 | 0.100 | 1.60(1.44) | 1.80(1.62) | 4R7 |
| LVF404015-6R8□-N | 6.8 | 1 | 20, 30 | 0.138 | 1.40(1.26) | 1.60(1.44) | 6R8 |
| LVF404015-100□-N | 10 | 1 | 20, 30 | 0.200 | 1.00(0.90) | 1.20(1.08) | 100 |
| LVF404015-150□-N | 15 | 1 | 20, 30 | 0.300 | 0.92(0.82) | 1.05(0.94) | 150 |
| LVF404015-220□-N | 22 | 1 | 20, 30 | 0.400 | 0.72(0.64) | 0.85(0.76) | 220 |

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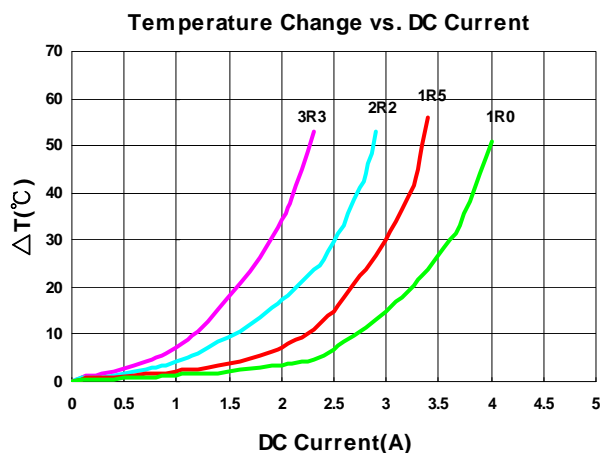
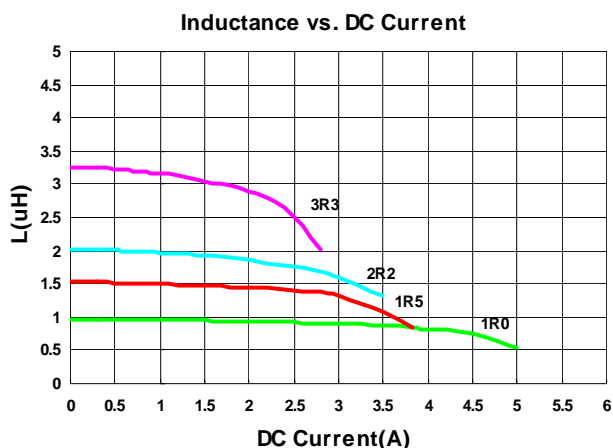


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF404018-1R0□-N | 1.0 | 100 | 20, 30 | 0.0265 | 4.2(3.78) | 3.8(3.42) | 1R0 |
| LVF404018-1R5□-N | 1.5 | 100 | 20, 30 | 0.0370 | 3.5(3.15) | 3.2(2.88) | 1R5 |
| LVF404018-2R2□-N | 2.2 | 100 | 20, 30 | 0.0470 | 3.0(2.70) | 2.7(2.43) | 2R2 |
| LVF404018-3R3□-N | 3.3 | 100 | 20, 30 | 0.0625 | 2.3(2.07) | 2.1(1.89) | 3R3 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

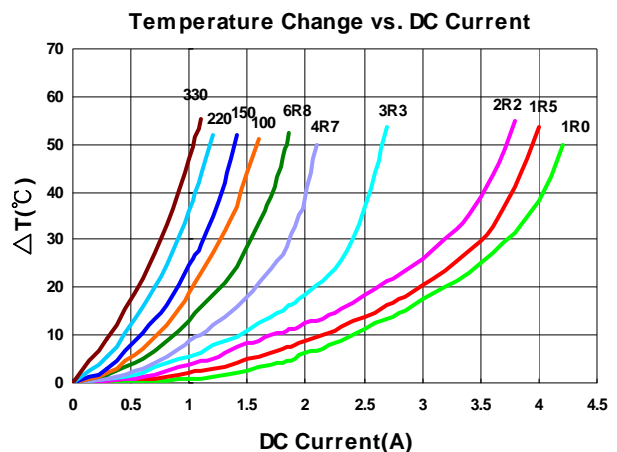
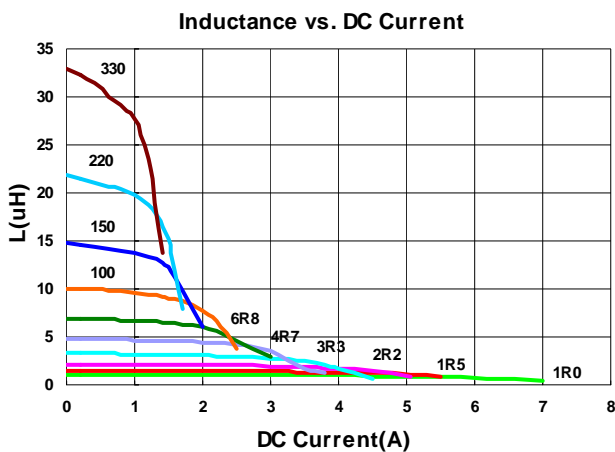


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF404026-1R0□-N | 1.0 | 100 | 20, 30 | 0.030 | 5.00(4.50) | 4.00(3.60) | 1R0 |
| LVF404026-1R5□-N | 1.5 | 100 | 20, 30 | 0.035 | 4.20(3.78) | 3.70(3.33) | 1R5 |
| LVF404026-2R2□-N | 2.2 | 100 | 20, 30 | 0.045 | 3.80(3.42) | 3.50(3.15) | 2R2 |
| LVF404026-3R3□-N | 3.3 | 100 | 20, 30 | 0.067 | 3.00(2.70) | 2.50(2.25) | 3R3 |
| LVF404026-4R7□-N | 4.7 | 100 | 20, 30 | 0.092 | 2.60(2.34) | 2.00(1.80) | 4R7 |
| LVF404026-5R6□-N | 5.6 | 100 | 20, 30 | 0.110 | 2.30(2.07) | 1.90(1.71) | 5R6 |
| LVF404026-6R8□-N | 6.8 | 100 | 20, 30 | 0.130 | 2.00(1.80) | 1.70(1.53) | 6R8 |
| LVF404026-100□-N | 10 | 100 | 20, 30 | 0.188 | 1.90(1.71) | 1.40(1.26) | 100 |
| LVF404026-150□-N | 15 | 100 | 20, 30 | 0.240 | 1.45(1.30) | 1.20(1.08) | 150 |
| LVF404026-220□-N | 22 | 100 | 20, 30 | 0.330 | 1.22(1.09) | 1.00(0.90) | 220 |
| LVF404026-330□-N | 33 | 100 | 20, 30 | 0.480 | 1.00(0.90) | 0.82(0.73) | 330 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

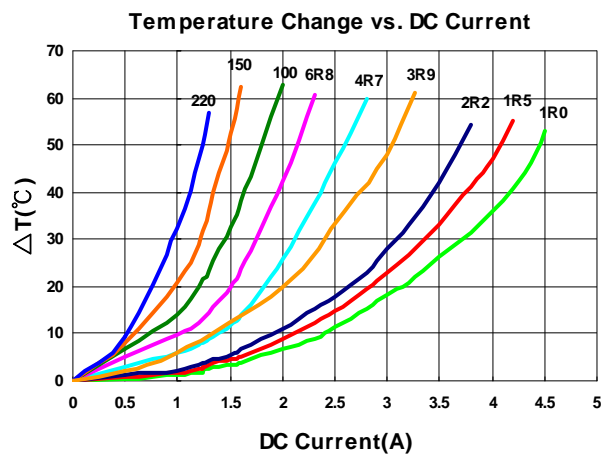
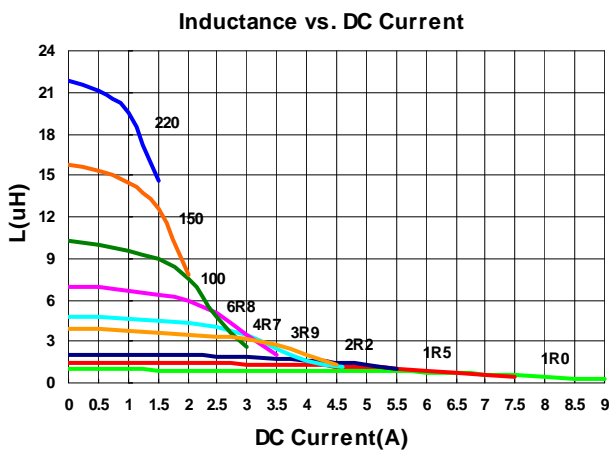


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF505020-1R0□-N | 1.0 | 100 | 20, 30 | 0.018 | 6.0(5.40) | 4.1(3.69) | 1R0 |
| LVF505020-1R5□-N | 1.5 | 100 | 20, 30 | 0.023 | 4.9(4.41) | 3.5(3.15) | 1R5 |
| LVF505020-2R2□-N | 2.2 | 100 | 20, 30 | 0.030 | 4.0(3.60) | 3.3(2.97) | 2R2 |
| LVF505020-3R6□-N | 3.6 | 100 | 20, 30 | 0.050 | 3.1(2.70) | 2.7(2.40) | 3R6 |
| LVF505020-3R9□-N | 3.9 | 100 | 20, 30 | 0.053 | 2.9(2.61) | 2.6(2.34) | 3R9 |
| LVF505020-4R7□-N | 4.7 | 100 | 20, 30 | 0.060 | 2.7(2.43) | 2.2(1.98) | 4R7 |
| LVF505020-6R8□-N | 6.8 | 100 | 20, 30 | 0.093 | 2.2(1.98) | 1.8(1.62) | 6R8 |
| LVF505020-100□-N | 10 | 100 | 20, 30 | 0.125 | 1.8(1.62) | 1.6(1.44) | 100 |
| LVF505020-150□-N | 15 | 100 | 20, 30 | 0.195 | 1.4(1.26) | 1.2(1.08) | 150 |
| LVF505020-220□-N | 22 | 100 | 20, 30 | 0.265 | 1.2(1.08) | 1.0(0.90) | 220 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

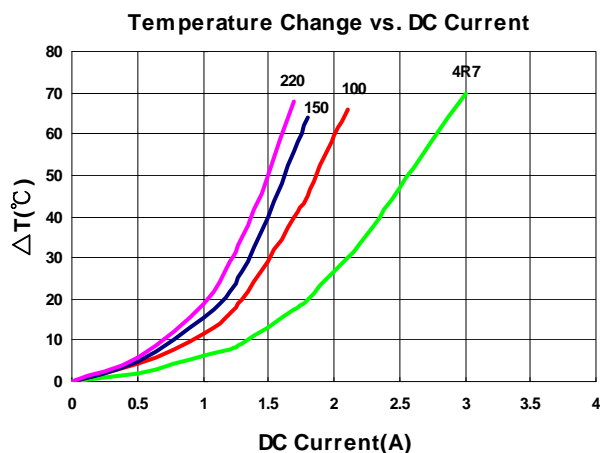
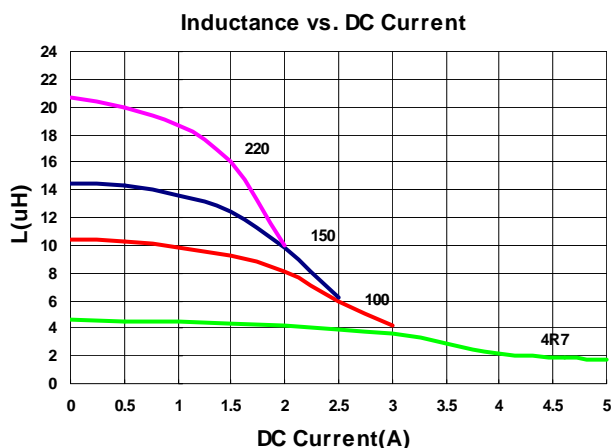


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF606020-4R7□-N | 4.7 | 100 | 20, 30 | 0.058 | 3.0(2.70) | 2.3(2.07) | 4R7 |
| LVF606020-100□-N | 10 | 100 | 20, 30 | 0.130 | 2.1(1.89) | 1.6(1.44) | 100 |
| LVF606020-150□-N | 15 | 100 | 20, 30 | 0.195 | 1.6(1.44) | 1.3(1.17) | 150 |
| LVF606020-220□-N | 22 | 100 | 20, 30 | 0.260 | 1.3(1.17) | 1.1(0.99) | 220 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

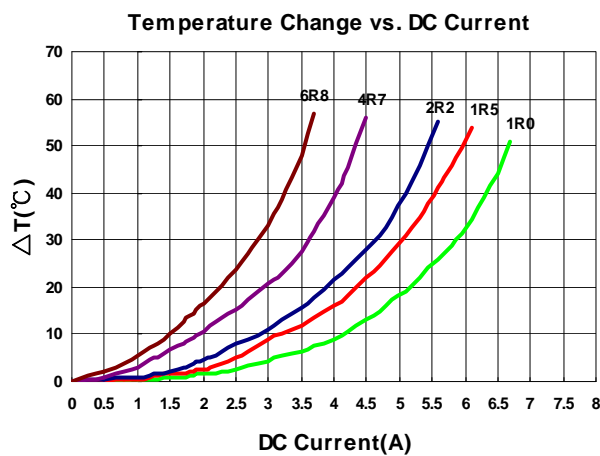
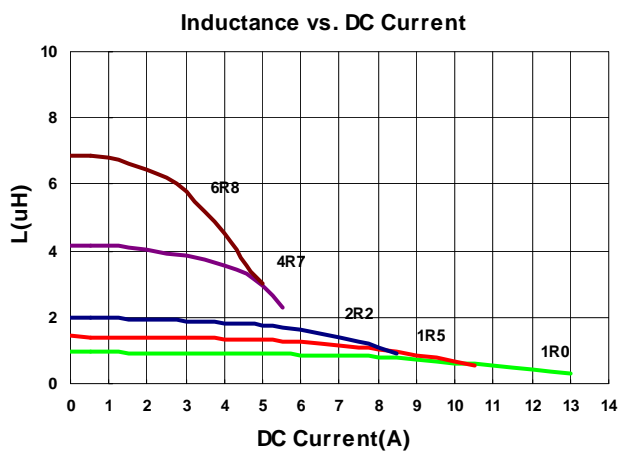


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF606028-1R0□-N | 1.0 | 100 | 20, 30 | 0.012 | 7.9(7.11) | 6.3(5.67) | 1R0 |
| LVF606028-1R5□-N | 1.5 | 100 | 20, 30 | 0.015 | 7.0(6.30) | 5.5(4.95) | 1R5 |
| LVF606028-2R2□-N | 2.2 | 100 | 20, 30 | 0.020 | 6.0(5.40) | 5.0(4.50) | 2R2 |
| LVF606028-4R7□-N | 4.7 | 100 | 20, 30 | 0.036 | 4.0(3.60) | 3.4(3.06) | 4R7 |
| LVF606028-6R8□-N | 6.8 | 100 | 20, 30 | 0.048 | 3.2(2.88) | 3.0(2.70) | 6R8 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C . (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

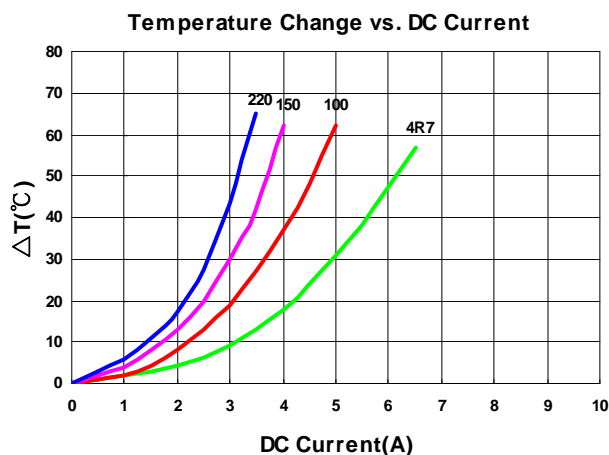
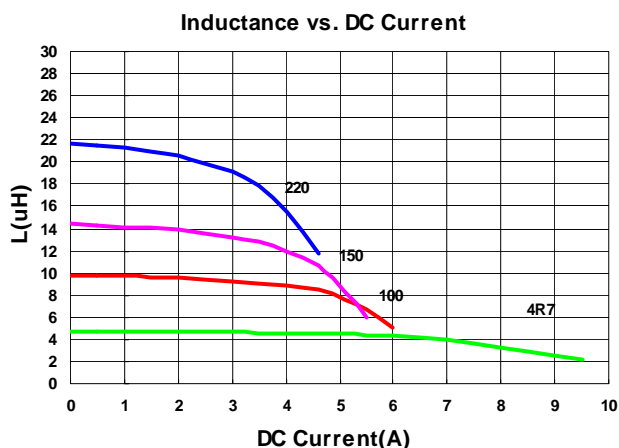


Electrical Characteristics

| Part Number | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVF808040-4R7□-N | 4.7 | 100 | 20, 30 | 0.020 | 6.8(6.12) | 5.5(4.95) | 4R7 |
| LVF808040-100□-N | 10 | 100 | 20, 30 | 0.038 | 5.0(4.50) | 3.8(3.42) | 100 |
| LVF808040-150□-N | 15 | 100 | 20, 30 | 0.057 | 4.0(3.60) | 3.2(2.88) | 150 |
| LVF808040-220□-N | 22 | 100 | 20, 30 | 0.082 | 3.4(3.06) | 2.7(2.43) | 220 |

- When ordering, please specify tolerance and packaging codes
- Tolerance : T = ±30% , M = ±20%
- L : Agilent/HP4284A+ Agilent/HP16334A, 100KHz, 1V
- RDC : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat & Irms : Agilent/HP4284A, 100KHz 1V
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -55°C to 125°C. (Including self - temperature rise)

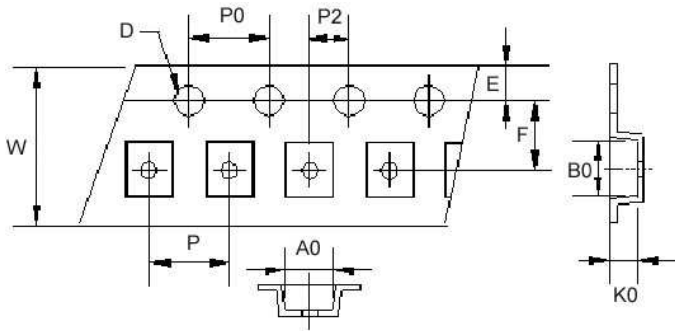
Test Instruments : HP4284A Material/Impedance Analyzer



Packaging Specifications

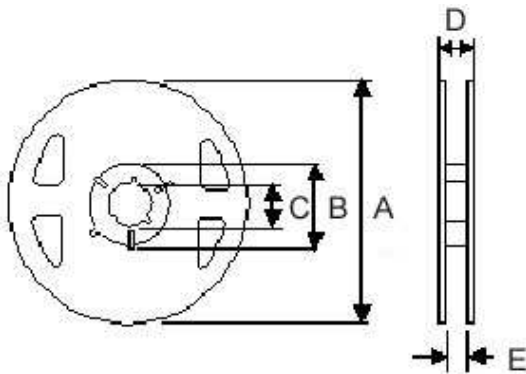
Tape Dimensions

Figure 1



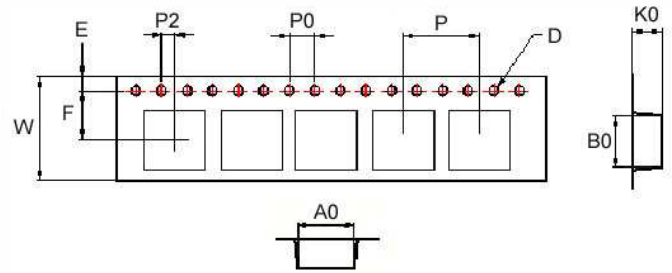
Reel Dimensions

Figure 1



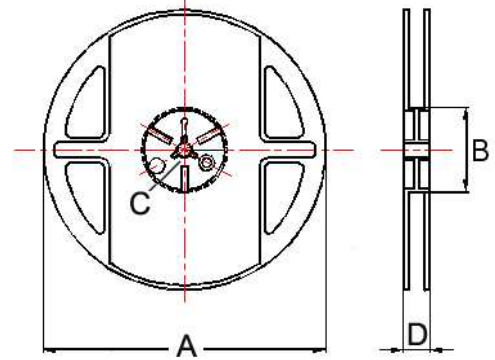
Tape Dimensions

Figure 2



Reel Dimensions

Figure 2



Dimensions in mm

| TYPE | Fig | Tape Dimensions | | | | | | | | | | Reel Dimensions | | | | | Quantity PCS / Reel |
|-----------|-----|-----------------|------|------|------|------|-----|----|---|----|----|-----------------|-----|----|------|-----|------------------------|
| | | A0 | B0 | K0 | D | E | F | W | P | P0 | P2 | A | B | C | D | E | |
| LVF201B12 | 1 | 1.90 | 2.20 | 1.30 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF252A10 | 1 | 2.40 | 2.70 | 1.15 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF252A12 | 1 | 2.40 | 2.70 | 1.30 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF303010 | 1 | 3.20 | 3.20 | 1.40 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF303012 | 1 | 3.20 | 3.20 | 1.40 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF303015 | 1 | 3.15 | 3.15 | 1.60 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| LVF404012 | 2 | 4.25 | 4.25 | 1.30 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 1000 |
| LVF404015 | 2 | 4.25 | 4.25 | 1.70 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 1000 |
| LVF404018 | 2 | 4.25 | 4.25 | 2.10 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 800 |
| LVF404026 | 2 | 4.25 | 4.25 | 3.00 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 500 |
| LVF505020 | 2 | 5.25 | 5.25 | 2.20 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 330 | 100 | 13 | 17.4 | - | 2000 |
| LVF606020 | 2 | 6.25 | 6.25 | 2.20 | 1.55 | 1.75 | 5.5 | 16 | 8 | 4 | 2 | 330 | 100 | 13 | 17.4 | - | 2000 |
| LVF606028 | 2 | 6.25 | 6.25 | 3.00 | 1.55 | 1.75 | 5.5 | 16 | 8 | 4 | 2 | 330 | 100 | 13 | 17.4 | - | 1500 |
| LVF808040 | 2 | 8.25 | 8.25 | 4.15 | 1.55 | 1.75 | 5.5 | 16 | 8 | 4 | 2 | 330 | 100 | 13 | 17.4 | - | 1000 |