

LVS Series



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

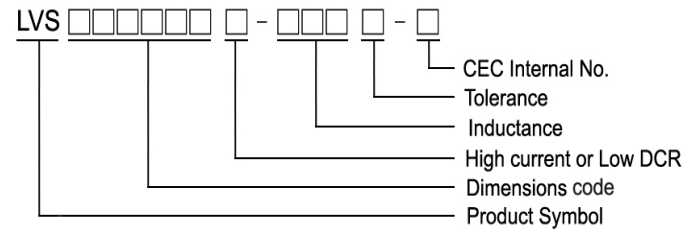
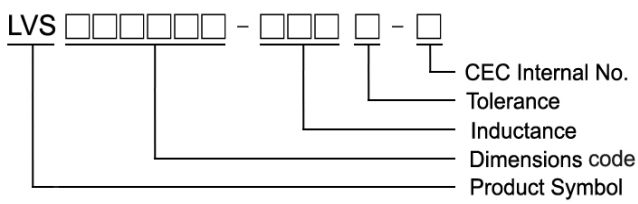
Features

- 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

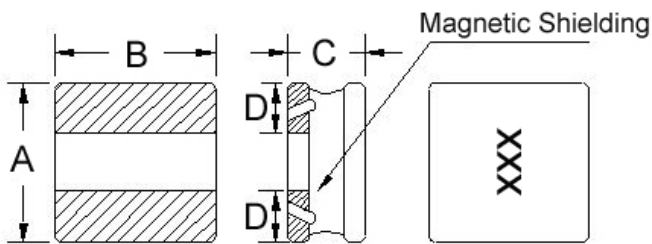
- AP Routers
- STBs
- LCD TVs, monitors and panels
- Game consoles
- DC/DC converters

Product Identification

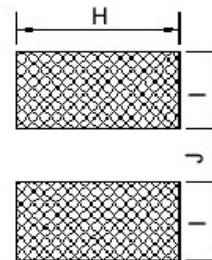


Shape and Dimensions

Figure 1



Recommended Pattern



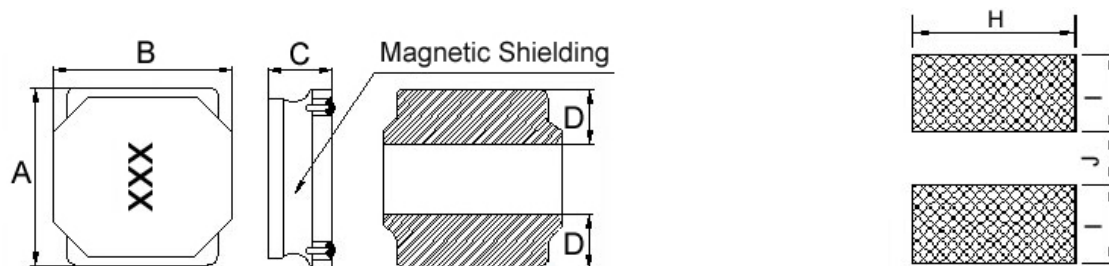
Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|-----------|-----|---------|---------|----------|-----|-----|-----|-----|
| LVS404012 | 1 | 4.0±0.2 | 4.0±0.2 | 1.20±0.1 | 1.5 | 4.2 | 1.5 | 1.2 |

Shape and Dimensions

Recommended Pattern

Figure 2



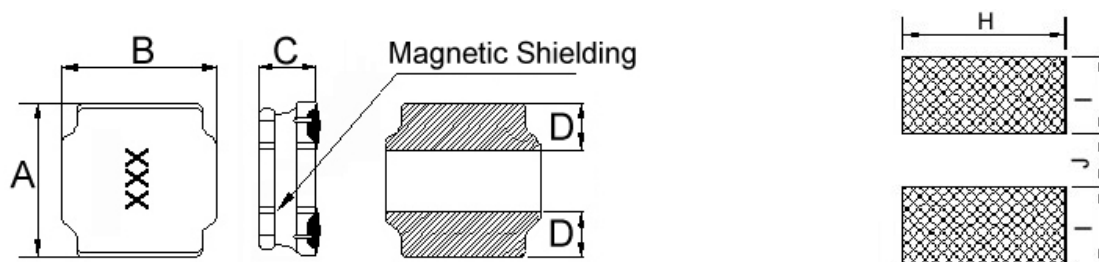
Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|-----------|-----|---------|---------|--------------------------------------|---------|-----|-----|-----|
| LVS404018 | 2 | 4.0±0.2 | 4.0±0.2 | 1.8 ^{+0.2} _{-0.30} | 1.3±0.3 | 3.7 | 1.2 | 1.6 |
| LVS404026 | 2 | 4.0±0.2 | 4.0±0.2 | 2.6±0.2 | 1.4 | 3.7 | 1.2 | 1.6 |

Shape and Dimensions

Recommended Pattern

Figure 3



Dimensions in mm

| TYPE | FIG | A | B | C | D | H | I | J |
|------------|-----|---------|---------|--------------------------------------|---------|-----|-----|-----|
| LVS505020 | 3 | 5.0±0.2 | 5.0±0.2 | 2.0 ^{+0.2} _{-0.30} | 1.8±0.3 | 4.0 | 1.5 | 2.1 |
| LVS505040 | 3 | 5.0±0.2 | 5.0±0.2 | 4.0 ^{+0.2} _{-0.30} | 1.6±0.3 | 4.0 | 1.5 | 2.1 |
| LVS606020 | 3 | 6.0±0.2 | 6.0±0.2 | 2.0 ^{+0.2} _{-0.30} | 1.7±0.3 | 5.7 | 1.6 | 2.9 |
| LVS606028 | 3 | 6.0±0.2 | 6.0±0.2 | 2.8 ^{+0.2} _{-0.30} | 1.9±0.3 | 5.7 | 1.6 | 2.9 |
| LVS606045 | 3 | 6.0±0.2 | 6.0±0.2 | 4.5 ^{+0.2} _{-0.30} | 1.8±0.3 | 5.7 | 2.0 | 2.4 |
| LVS606045L | 3 | 6.0±0.2 | 6.0±0.2 | 4.5 ^{+0.2} _{-0.30} | 1.8±0.3 | 5.7 | 2.0 | 2.4 |
| LVS808040 | 3 | 8.0±0.2 | 8.0±0.2 | 4.0 ^{+0.2} _{-0.30} | 2.3±0.3 | 7.5 | 2.5 | 3.4 |
| LVS808040L | 3 | 8.0±0.2 | 8.0±0.2 | 4.0 ^{+0.2} _{-0.30} | 2.3±0.3 | 7.5 | 2.5 | 3.4 |

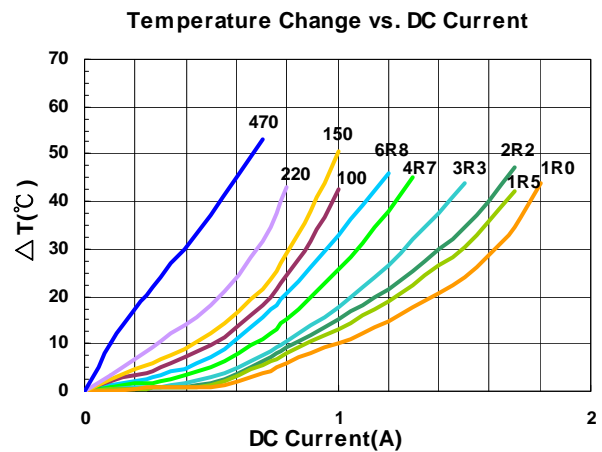
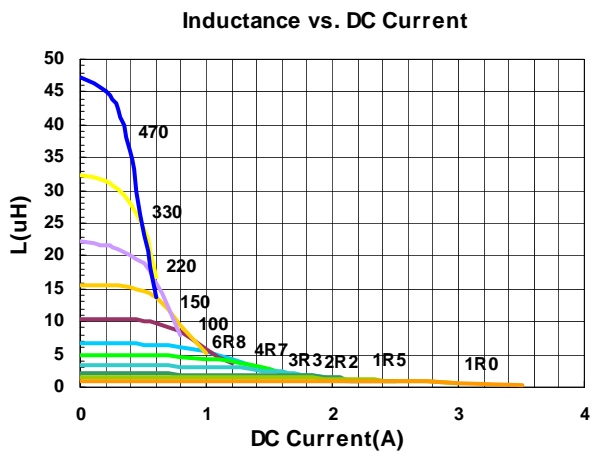
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS404012-1R0□-N | 1.0 | 20, 30 | 100 | 48 | 2.50(2.25) | 1.70(1.53) | 1R0 |
| LVS404012-1R5□-N | 1.5 | 20, 30 | 100 | 58 | 2.10(1.89) | 1.60(1.44) | 1R5 |
| LVS404012-2R2□-N | 2.2 | 20, 30 | 100 | 65 | 1.70(1.53) | 1.50(1.35) | 2R2 |
| LVS404012-3R3□-N | 3.3 | 20, 30 | 100 | 90 | 1.30(1.17) | 1.40(1.26) | 3R3 |
| LVS404012-4R7□-N | 4.7 | 20, 30 | 100 | 110 | 1.10(0.99) | 1.20(1.08) | 4R7 |
| LVS404012-6R8□-N | 6.8 | 20, 30 | 100 | 135 | 0.90(0.81) | 1.05(0.94) | 6R8 |
| LVS404012-100□-N | 10 | 20, 30 | 100 | 190 | 0.78(0.70) | 0.90(0.81) | 100 |
| LVS404012-150□-N | 15 | 20, 30 | 100 | 250 | 0.65(0.58) | 0.85(0.76) | 150 |
| LVS404012-220□-N | 22 | 20, 30 | 100 | 400 | 0.52(0.46) | 0.75(0.67) | 220 |
| LVS404012-330□-N | 33 | 20, 30 | 100 | 600 | 0.44(0.39) | 0.70(0.63) | 330 |
| LVS404012-470□-N | 47 | 20, 30 | 100 | 930 | 0.35(0.31) | 0.50(0.45) | 470 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : Agilent HP4284A+Agilent HP42841A, 100kHz 1V
 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & I rms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



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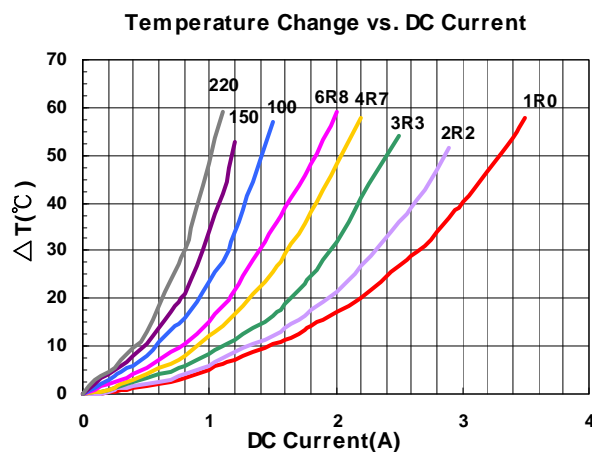
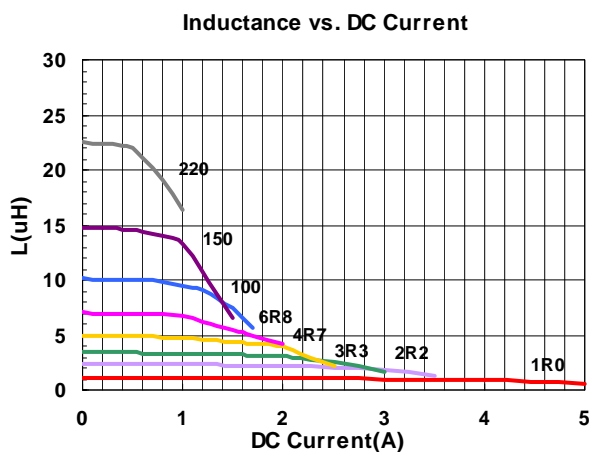
Electrical Characteristics

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|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS404018-1R0□-N | 1.0 | 20, 30 | 100 | 32 | 4.10(3.69) | 2.80(2.52) | 1R0 |
| LVS404018-1R5□-N | 1.5 | 20, 30 | 100 | 40 | 3.30(2.97) | 2.60(2.34) | 1R5 |
| LVS404018-1R8□-N | 1.8 | 20, 30 | 100 | 55 | 2.80(2.50) | 2.50(2.20) | 1R8 |
| LVS404018-2R2□-N | 2.2 | 20, 30 | 100 | 60 | 2.80(2.52) | 2.50(2.25) | 2R2 |
| LVS404018-3R3□-N | 3.3 | 20, 30 | 100 | 70 | 2.20(1.98) | 2.10(1.89) | 3R3 |
| LVS404018-3R6□-N | 3.6 | 20, 30 | 100 | 75 | 2.10(1.89) | 1.90(1.71) | 3R6 |
| LVS404018-3R9□-N | 3.9 | 20, 30 | 100 | 75 | 2.10(1.89) | 1.90(1.71) | 3R9 |
| LVS404018-4R7□-N | 4.7 | 20, 30 | 100 | 90 | 2.00(1.80) | 1.70(1.53) | 4R7 |
| LVS404018-6R8□-N | 6.8 | 20, 30 | 100 | 110 | 1.60(1.44) | 1.50(1.35) | 6R8 |
| LVS404018-8R2□-N | 8.2 | 20, 30 | 100 | 155 | 1.50(1.30) | 1.30(1.10) | 8R2 |
| LVS404018-100□-N | 10 | 20, 30 | 100 | 170 | 1.40(1.26) | 1.20(1.08) | 100 |
| LVS404018-150□-N | 15 | 20, 30 | 100 | 250 | 1.00(0.90) | 1.00(0.90) | 150 |
| LVS404018-220□-N | 22 | 20, 30 | 100 | 350 | 0.90(0.81) | 0.85(0.76) | 220 |
| LVS404018-330□-N | 33 | 20, 30 | 100 | 530 | 0.80(0.72) | 0.70(0.63) | 330 |
| LVS404018-470□-N | 47 | 20, 30 | 100 | 720 | 0.70(0.63) | 0.56(0.50) | 470 |
| LVS404018-680□-N | 68 | 20, 30 | 100 | 1000 | 0.56(0.50) | 0.45(0.40) | 680 |
| LVS404018-101□-N | 100 | 20, 30 | 100 | 1500 | 0.46(0.41) | 0.38(0.34) | 101 |
| LVS404018-151□-N | 150 | 20, 30 | 100 | 2500 | 0.35(0.31) | 0.30(0.27) | 151 |
| LVS404018-221□-N | 220 | 20, 30 | 100 | 4000 | 0.28(0.25) | 0.23(0.20) | 221 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20%, T=±30%

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 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



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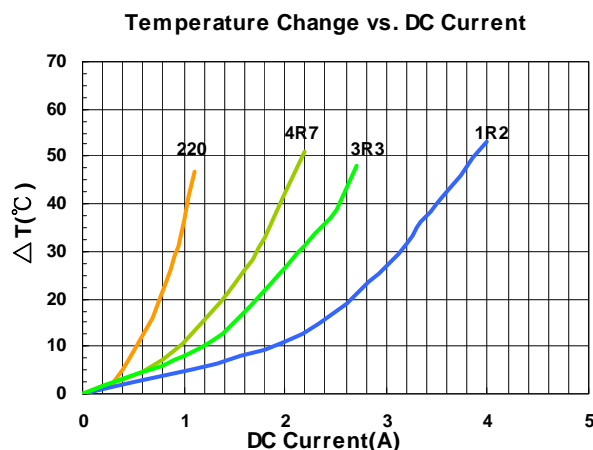
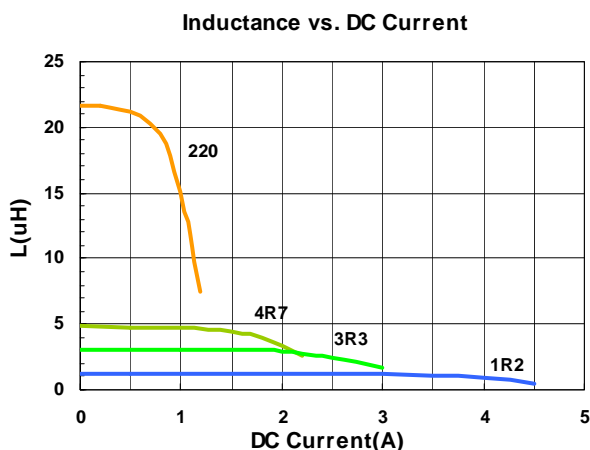
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS404026-1R2□-N | 1.2 | 20, 30 | 100 | 30 | 3.50(3.15) | 3.30(2.97) | 1R2 |
| LVS404026-3R3□-N | 3.3 | 20, 30 | 100 | 45 | 2.50(2.25) | 2.50(2.25) | 3R3 |
| LVS404026-4R7□-N | 4.7 | 20, 30 | 100 | 60 | 1.80(1.62) | 1.80(1.62) | 4R7 |
| LVS404026-220□-N | 22 | 20, 30 | 100 | 230 | 0.86(0.77) | 1.00(0.90) | 220 |

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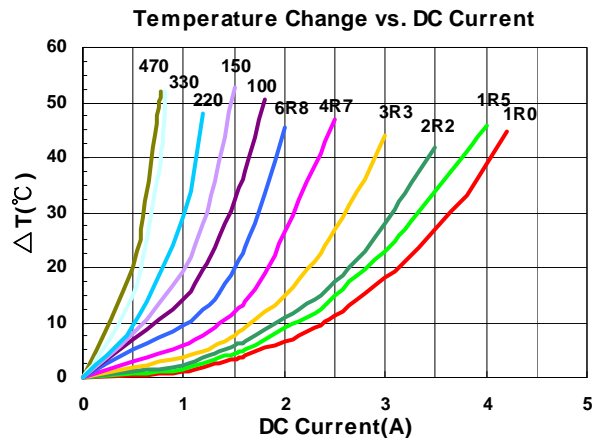
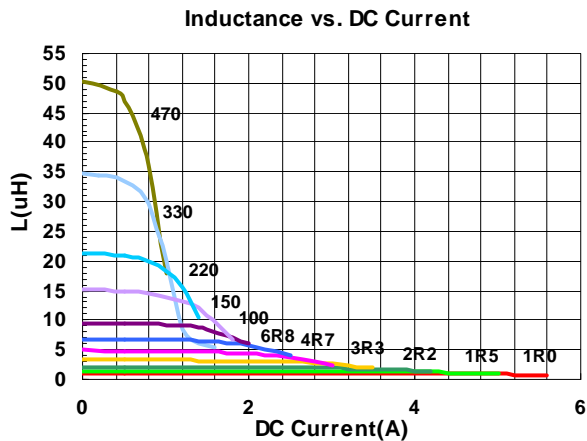
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) ±20% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS505020-1R0□-N | 1.0 | 20, 30 | 100 | 21 | 5.1(4.59) | 4.0(3.60) | 1R0 |
| LVS505020-1R2□-N | 1.2 | 30 | 100 | 21 | 4.8(4.32) | 3.8(3.42) | 1R2 |
| LVS505020-1R5□-N | 1.5 | 20, 30 | 100 | 26 | 4.2(3.78) | 3.5(3.15) | 1R5 |
| LVS505020-2R2□-N | 2.2 | 20, 30 | 100 | 35 | 3.4(3.06) | 3.2(2.88) | 2R2 |
| LVS505020-2R7□-N | 2.7 | 20, 30 | 100 | 38 | 3.05(2.7) | 2.9(2.60) | 2R7 |
| LVS505020-3R3□-N | 3.3 | 20, 30 | 100 | 48 | 3.0(2.70) | 2.8(2.52) | 3R3 |
| LVS505020-4R7□-N | 4.7 | 20, 30 | 100 | 60 | 2.2(1.98) | 2.2(1.98) | 4R7 |
| LVS505020-5R6□-N | 5.6 | 20, 30 | 100 | 82 | 2.05(1.84) | 2.0(1.80) | 5R6 |
| LVS505020-6R8□-N | 6.8 | 20, 30 | 100 | 90 | 2.0(1.80) | 1.8(1.62) | 6R8 |
| LVS505020-100□-N | 10 | 20, 30 | 100 | 120 | 1.6(1.44) | 1.6(1.44) | 100 |
| LVS505020-150□-N | 15 | 20, 30 | 100 | 190 | 1.3(1.17) | 1.2(1.08) | 150 |
| LVS505020-220□-N | 22 | 20, 30 | 100 | 260 | 1.0(0.90) | 1.0(0.90) | 220 |
| LVS505020-330□-N | 33 | 20, 30 | 100 | 460 | 0.8(0.72) | 0.75(0.67) | 330 |
| LVS505020-470□-N | 47 | 20, 30 | 100 | 580 | 0.65(0.58) | 0.65(0.58) | 470 |

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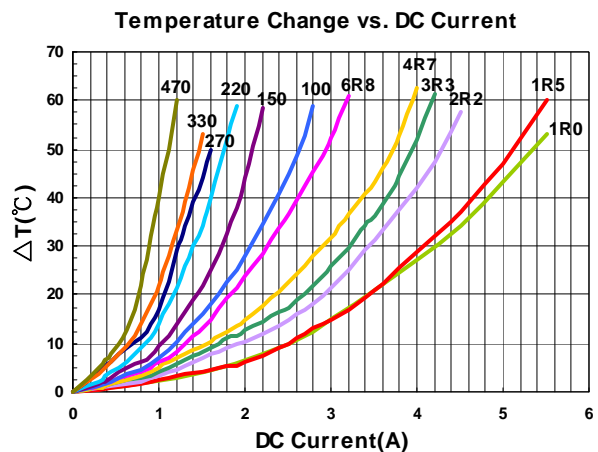
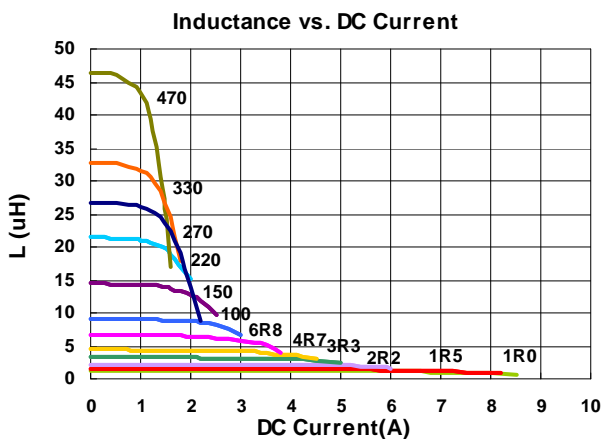
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|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS505040-1R0□-N | 1.0 | 30 | 100 | 14 | 7.5(6.75) | 4.6(4.14) | 1R0 |
| LVS505040-1R2□-N | 1.2 | 20, 30 | 100 | 15 | 7.4(6.66) | 4.5(4.05) | 1R2 |
| LVS505040-1R5□-N | 1.5 | 20, 30 | 100 | 16 | 7.1(6.39) | 4.4(3.96) | 1R5 |
| LVS505040-2R2□-N | 2.2 | 20, 30 | 100 | 21 | 5.7(5.13) | 3.7(3.33) | 2R2 |
| LVS505040-3R0□-N | 2.2 | 20, 30 | 100 | 26 | 4.8(4.32) | 3.5(3.15) | 3R0 |
| LVS505040-3R3□-N | 3.3 | 20, 30 | 100 | 26 | 4.8(4.32) | 3.5(3.15) | 3R3 |
| LVS505040-3R6□-N | 3.6 | 20, 30 | 100 | 31 | 4.2(3.70) | 3.3(2.90) | 3R6 |
| LVS505040-4R7□-N | 4.7 | 20, 30 | 100 | 32 | 4.2(3.78) | 3.2(2.88) | 4R7 |
| LVS505040-6R8□-N | 6.8 | 20, 30 | 100 | 50 | 3.3(2.97) | 2.4(2.16) | 6R8 |
| LVS505040-100□-N | 10 | 20, 30 | 100 | 60 | 2.8(2.52) | 2.2(1.98) | 100 |
| LVS505040-150□-N | 15 | 20, 30 | 100 | 90 | 2.3(2.07) | 1.8(1.62) | 150 |
| LVS505040-220□-N | 22 | 20, 30 | 100 | 135 | 1.8(1.62) | 1.4(1.26) | 220 |
| LVS505040-270□-N | 27 | 20, 30 | 100 | 180 | 1.6(1.44) | 1.2(1.08) | 270 |
| LVS505040-330□-N | 33 | 20, 30 | 100 | 190 | 1.5(1.35) | 1.1(0.99) | 330 |
| LVS505040-470□-N | 47 | 20, 30 | 100 | 310 | 1.2(1.08) | 0.9(0.81) | 470 |
| LVS505040-680□-N | 68 | 20, 30 | 100 | 540 | 1.0(0.90) | 0.78(0.7) | 680 |
| LVS505040-101□-N | 100 | 20, 30 | 100 | 800 | 0.7(0.60) | 0.6(0.50) | 101 |

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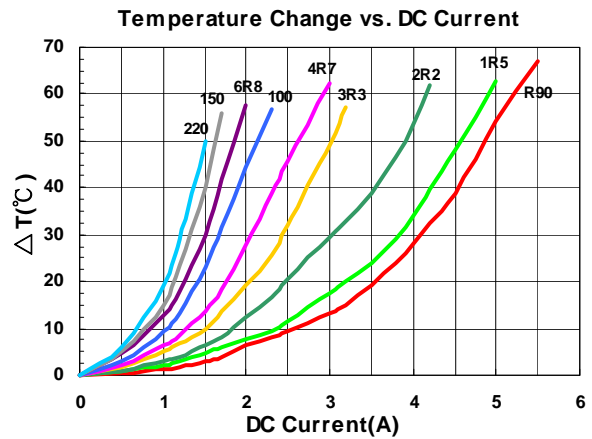
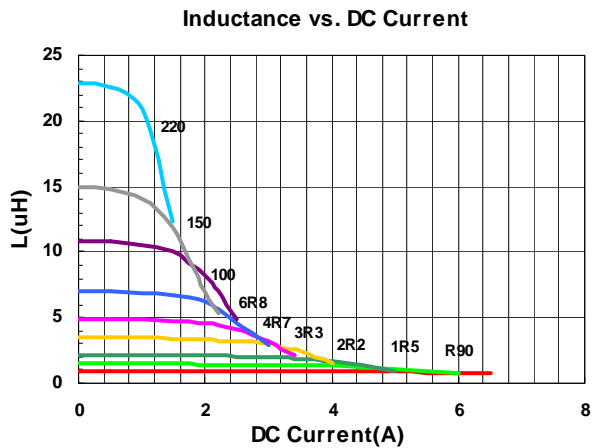
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|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS606020-R50□-N | 0.5 | 30 | 100 | 13 | 8.0(7.20) | 5.3(4.77) | R50 |
| LVS606020-R90□-N | 0.9 | 30 | 100 | 18 | 6.3(5.67) | 4.2(3.78) | R90 |
| LVS606020-1R0□-N | 1.0 | 30 | 100 | 19 | 6.2(5.58) | 4.1(3.69) | 1R0 |
| LVS606020-1R5□-N | 1.5 | 20, 30 | 100 | 26 | 5.0(4.50) | 3.6(3.24) | 1R5 |
| LVS606020-2R2□-N | 2.2 | 20, 30 | 100 | 34 | 4.2(3.78) | 3.2(2.88) | 2R2 |
| LVS606020-3R3□-N | 3.3 | 20, 30 | 100 | 40 | 3.2(2.88) | 2.7(2.43) | 3R3 |
| LVS606020-4R7□-N | 4.7 | 20, 30 | 100 | 58 | 2.5(2.25) | 2.2(1.98) | 4R7 |
| LVS606020-6R8□-N | 6.8 | 20, 30 | 100 | 85 | 2.2(1.98) | 1.8(1.62) | 6R8 |
| LVS606020-100□-N | 10 | 20, 30 | 100 | 125 | 2.0(1.80) | 1.6(1.44) | 100 |
| LVS606020-150□-N | 15 | 20, 30 | 100 | 190 | 1.3(1.17) | 1.3(1.17) | 150 |
| LVS606020-220□-N | 22 | 20, 30 | 100 | 260 | 1.1(0.99) | 1.1(0.99) | 220 |

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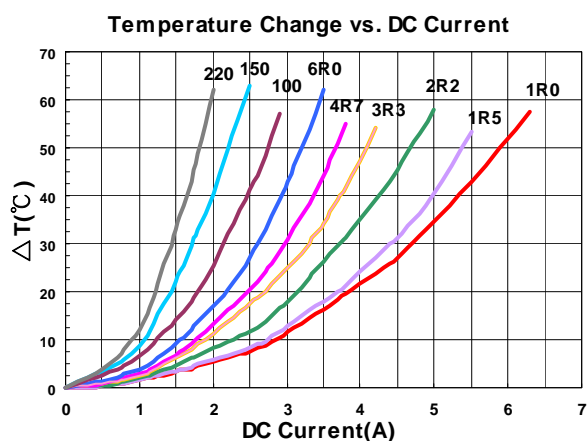
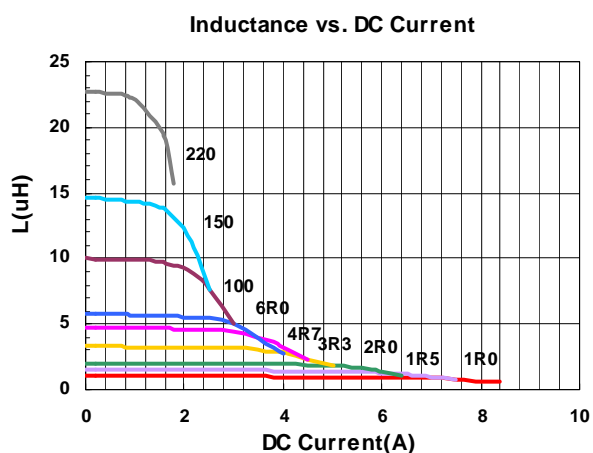
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|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS606028-1R0□-N | 1.0 | 20, 30 | 100 | 13 | 7.6(6.84) | 5.2(4.68) | 1R0 |
| LVS606028-1R5□-N | 1.5 | 30 | 100 | 16 | 6.3(5.67) | 4.8(4.32) | 1R5 |
| LVS606028-2R2□-N | 2.2 | 20, 30 | 100 | 20 | 5.4(4.86) | 4.0(3.60) | 2R2 |
| LVS606028-2R7□-N | 2.7 | 20, 30 | 100 | 26 | 4.9(4.41) | 3.7(3.33) | 2R7 |
| LVS606028-3R3□-N | 3.3 | 20, 30 | 100 | 28 | 4.3(3.87) | 3.5(3.15) | 3R3 |
| LVS606028-4R7□-N | 4.7 | 20, 30 | 100 | 38 | 3.7(3.33) | 3.2(2.88) | 4R7 |
| LVS606028-6R0□-N | 6.0 | 20, 30 | 100 | 45 | 3.3(2.97) | 2.8(2.52) | 6R0 |
| LVS606028-6R8□-N | 6.8 | 20, 30 | 100 | 50 | 3.1(2.79) | 2.7(2.43) | 6R8 |
| LVS606028-100□-N | 10 | 20, 30 | 100 | 65 | 2.5(2.25) | 2.3(2.07) | 100 |
| LVS606028-150□-N | 15 | 20, 30 | 100 | 95 | 2.0(1.80) | 1.8(1.62) | 150 |
| LVS606028-220□-N | 22 | 20, 30 | 100 | 135 | 1.6(1.44) | 1.5(1.35) | 220 |
| LVS606028-330□-N | 33 | 20, 30 | 100 | 220 | 1.3(1.17) | 1.4(1.26) | 330 |
| LVS606028-470□-N | 47 | 20, 30 | 100 | 320 | 1.1(0.99) | 1.0(0.90) | 470 |
| LVS606028-680□-N | 68 | 20, 30 | 100 | 420 | 0.98(0.88) | 0.9(0.81) | 680 |
| LVS606028-101□-N | 100 | 20, 30 | 100 | 600 | 0.82(0.73) | 0.8(0.72) | 101 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : Agilent HP4284A+Agilent HP42841A, 100kHz 1V
 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without advance notice. Please contact our sales department before ordering.

Electrical Characteristics

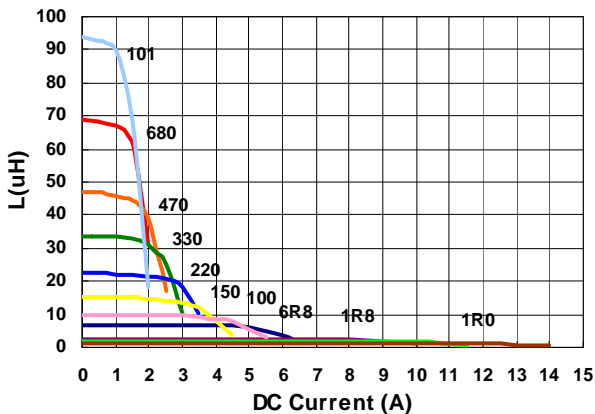
| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS606045-1R0□-N | 1.0 | 20, 30 | 100 | 12 | 12.2(10.98) | 6.5(5.85) | 1R0 |
| LVS606045-1R2□-N | 1.2 | 20, 30 | 100 | 13 | 10.6(9.50) | 5.9(5.30) | 1R2 |
| LVS606045-1R5□-N | 1.5 | 20, 30 | 100 | 15 | 10.4(9.36) | 5.9(5.31) | 1R5 |
| LVS606045-1R8□-N | 1.8 | 20, 30 | 100 | 17 | 9.6(8.64) | 5.6(5.04) | 1R8 |
| LVS606045-2R2□-N | 2.2 | 20, 30 | 100 | 18.4 | 8.8(7.92) | 5.1(4.59) | 2R2 |
| LVS606045-2R3□-N | 2.3 | 20, 30 | 100 | 19 | 8.8(7.92) | 5.0(4.50) | 2R3 |
| LVS606045-3R0□-N | 3.0 | 20, 30 | 100 | 22 | 7.8(7.02) | 4.4(3.96) | 3R0 |
| LVS606045-3R3□-N | 3.3 | 20, 30 | 100 | 24 | 7.5(6.75) | 4.3(3.87) | 3R3 |
| LVS606045-3R6□-N | 3.6 | 20, 30 | 100 | 24 | 7.5(6.75) | 4.3(3.87) | 3R6 |
| LVS606045-3R9□-N | 3.9 | 20, 30 | 100 | 26 | 7.0(6.30) | 4.0(3.60) | 3R9 |
| LVS606045-4R5□-N | 4.5 | 20, 30 | 100 | 31 | 6.7(6.03) | 3.9(3.51) | 4R5 |
| LVS606045-4R7□-N | 4.7 | 20, 30 | 100 | 31 | 6.7(6.03) | 3.9(3.51) | 4R7 |
| LVS606045-5R1□-N | 5.1 | 20, 30 | 100 | 33 | 6.0(5.40) | 3.5(3.15) | 5R1 |
| LVS606045-5R6□-N | 5.6 | 20, 30 | 100 | 40 | 5.5(4.95) | 3.3(2.97) | 5R6 |
| LVS606045-6R3□-N | 6.3 | 20, 30 | 100 | 40 | 5.5(4.95) | 3.3(2.97) | 6R3 |
| LVS606045-6R8□-N | 6.8 | 20, 30 | 100 | 43 | 5.3(4.77) | 3.2(2.88) | 6R8 |
| LVS606045-8R2□-N | 8.2 | 20, 30 | 100 | 53 | 4.6(4.10) | 2.9(2.60) | 8R2 |
| LVS606045-100□-N | 10 | 20, 30 | 100 | 57 | 4.5(4.05) | 2.7(2.43) | 100 |
| LVS606045-150□-N | 15 | 20, 30 | 100 | 80 | 3.4(3.06) | 2.2(1.98) | 150 |
| LVS606045-180□-N | 18 | 20, 30 | 100 | 100 | 3.1(2.79) | 1.8(1.62) | 180 |
| LVS606045-220□-N | 22 | 20, 30 | 100 | 125 | 3.0(2.70) | 1.9(1.71) | 220 |
| LVS606045-270□-N | 27 | 20, 30 | 100 | 160 | 2.5(2.25) | 1.3(1.17) | 270 |
| LVS606045-330□-N | 33 | 20, 30 | 100 | 165 | 2.3(2.07) | 1.4(1.26) | 330 |
| LVS606045-470□-N | 47 | 20, 30 | 100 | 245 | 1.9(1.71) | 1.2(1.08) | 470 |
| LVS606045-560□-N | 56 | 20, 30 | 100 | 310 | 1.7(1.50) | 1.1(0.99) | 560 |
| LVS606045-680□-N | 68 | 20, 30 | 100 | 330 | 1.6(1.44) | 1.0(0.90) | 680 |
| LVS606045-101□-N | 100 | 20, 30 | 100 | 500 | 1.3(1.17) | 0.8(0.72) | 101 |
| LVS606045-221□-N | 220 | 20, 30 | 100 | 1300 | 0.82(0.73) | 0.38(0.34) | 221 |
| LVS606045-331□-N | 330 | 20, 30 | 100 | 1800 | 0.7(0.63) | 0.35(0.31) | 331 |
| LVS606045-102□-N | 1000 | 20, 30 | 100 | 6000 | 0.4(0.36) | 0.22(0.19) | 102 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

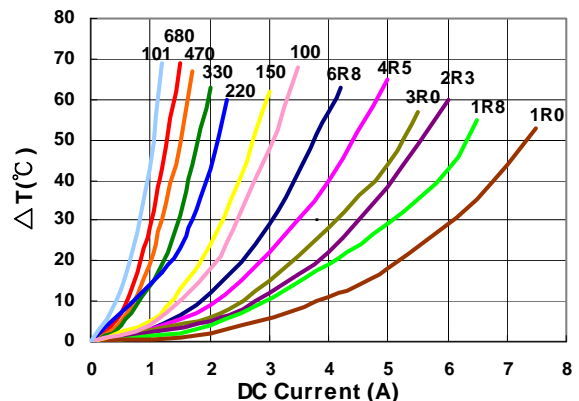
- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
 L : Agilent HP4284A+Agilent HP42841A, 100kHz 1V
 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current



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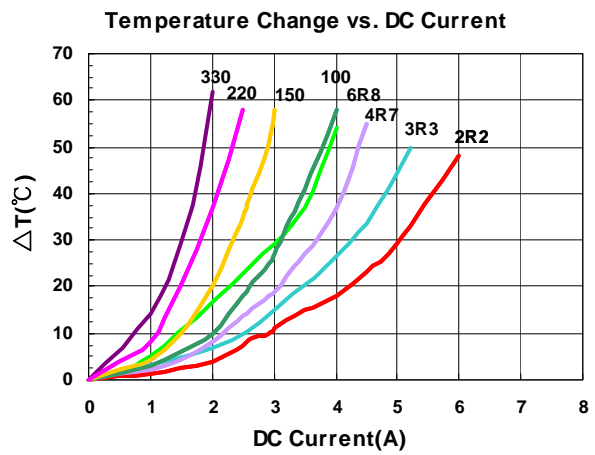
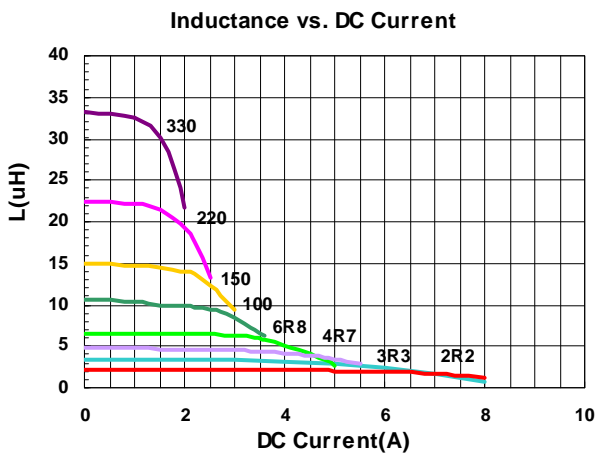
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|-------------------|-----------------|----------------|----------------------|--------------|---------------------|---------------------|---------|
| LVS606045L-R50□-N | 0.5 | 30 | 100 | 9 | 11(9.90) | 8.0(7.20) | R50 |
| LVS606045L-2R2□-N | 2.2 | 20, 30 | 100 | 17 | 6.8(6.12) | 5.5(4.95) | 2R2 |
| LVS606045L-3R3□-N | 3.3 | 20, 30 | 100 | 24 | 5.5(4.95) | 4.7(4.23) | 3R3 |
| LVS606045L-4R7□-N | 4.7 | 20, 30 | 100 | 30 | 4.6(4.14) | 4.0(3.60) | 4R7 |
| LVS606045L-6R8□-N | 6.8 | 20, 30 | 100 | 40 | 4.0(3.60) | 3.5(3.15) | 6R8 |
| LVS606045L-100□-N | 10 | 20, 30 | 100 | 50 | 3.2(2.88) | 3.2(2.88) | 100 |
| LVS606045L-150□-N | 15 | 20, 30 | 100 | 80 | 2.6(2.34) | 2.5(2.25) | 150 |
| LVS606045L-220□-N | 22 | 20, 30 | 100 | 120 | 2.1(1.89) | 2.0(1.80) | 220 |
| LVS606045L-330□-N | 33 | 20, 30 | 100 | 170 | 1.7(1.53) | 1.6(1.44) | 330 |
| LVS606045L-101□-N | 100 | 20, 30 | 100 | 595 | 0.95(0.85) | 0.92(0.82) | 101 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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 Isat & Irms : Agilent HP4284A

Test Instruments : HP4284A Material/Impedance Analyzer



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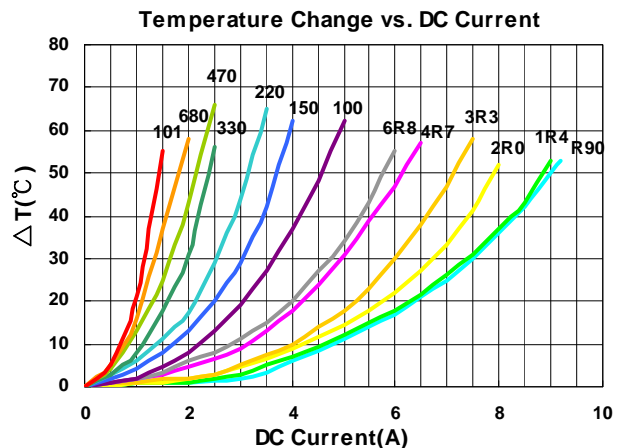
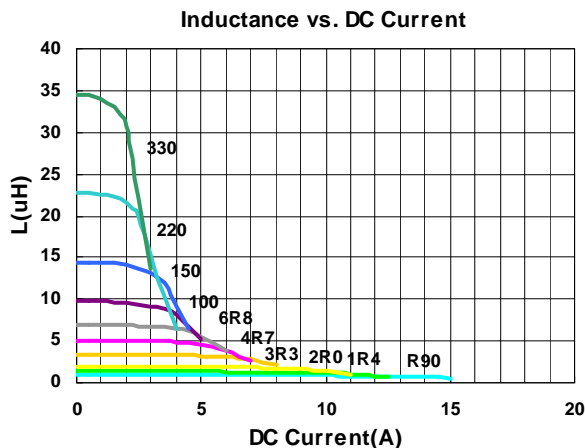
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------|----------------------|---------------|---------------------|---------------------|---------|
| LVS808040-R90□-N | 0.9 | 30 | 100 | 7 | 13.8(12.42) | 8.05(7.24) | R90 |
| LVS808040-1R0□-N | 1.0 | 30 | 100 | 7.5 | 13.0(11.70) | 7.95(7.15) | 1R0 |
| LVS808040-1R4□-N | 1.4 | 30 | 100 | 9 | 10.8(9.72) | 7.8(7.02) | 1R4 |
| LVS808040-1R5□-N | 1.5 | 30 | 100 | 9.5 | 10.0(9.00) | 7.7(6.93) | 1R5 |
| LVS808040-2R0□-N | 2.0 | 20, 30 | 100 | 11 | 9.6(8.64) | 7.4(6.66) | 2R0 |
| LVS808040-2R2□-N | 2.2 | 20, 30 | 100 | 11.5 | 9.2(8.28) | 7.2(6.48) | 2R2 |
| LVS808040-2R5□-N | 2.5 | 20, 30 | 100 | 13 | 8.2(7.38) | 6.3(5.67) | 2R5 |
| LVS808040-3R3□-N | 3.3 | 20, 30 | 100 | 15 | 7.5(6.75) | 6.0(5.40) | 3R3 |
| LVS808040-3R9□-N | 3.9 | 20, 30 | 100 | 18 | 6.1(5.40) | 5.5(4.90) | 3R9 |
| LVS808040-4R7□-N | 4.7 | 20, 30 | 100 | 18 | 6.0(5.40) | 5.5(4.95) | 4R7 |
| LVS808040-5R6□-N | 5.6 | 20, 30 | 100 | 23 | 5.7(5.13) | 5.2(4.68) | 5R6 |
| LVS808040-6R8□-N | 6.8 | 20, 30 | 100 | 25 | 5.4(4.86) | 5.1(4.59) | 6R8 |
| LVS808040-100□-N | 10 | 20, 30 | 100 | 38 | 4.3(3.87) | 3.8(3.42) | 100 |
| LVS808040-120□-N | 12 | 20, 30 | 100 | 45 | 3.8(3.42) | 3.5(3.15) | 120 |
| LVS808040-150□-N | 15 | 20, 30 | 100 | 50 | 3.6(3.24) | 3.2(2.88) | 150 |
| LVS808040-180□-N | 18 | 20, 30 | 100 | 68 | 3.1(2.79) | 2.7(2.43) | 180 |
| LVS808040-220□-N | 22 | 20, 30 | 100 | 80 | 2.8(2.52) | 2.6(2.34) | 220 |
| LVS808040-330□-N | 33 | 20, 30 | 100 | 110 | 2.3(2.07) | 2.0(1.80) | 330 |
| LVS808040-470□-N | 47 | 20, 30 | 100 | 160 | 1.9(1.71) | 1.75(1.57) | 470 |
| LVS808040-680□-N | 68 | 20, 30 | 100 | 240 | 1.7(1.53) | 1.45(1.30) | 680 |
| LVS808040-101□-N | 100 | 20, 30 | 100 | 340 | 1.4(1.26) | 1.10(0.99) | 101 |
| LVS808040-121□-N | 120 | 20, 30 | 100 | 425 | 1.1(0.99) | 1.0(0.90) | 121 |
| LVS808040-151□-N | 150 | 20, 30 | 100 | 480 | 1.0(0.90) | 0.9(0.81) | 151 |
| LVS808040-181□-N | 180 | 20, 30 | 100 | 650 | 0.98(0.88) | 0.7(0.63) | 181 |
| LVS808040-221□-N | 220 | 20, 30 | 100 | 670 | 0.94(0.84) | 0.60(0.54) | 221 |
| LVS808040-271□-N | 270 | 20, 30 | 100 | 900 | 0.83(0.74) | 0.55(0.49) | 271 |
| LVS808040-821□-N | 820 | 20, 30 | 100 | 2800 | 0.40(0.36) | 0.38(0.34) | 821 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

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Test Instruments : HP4284A Material/Impedance Analyzer



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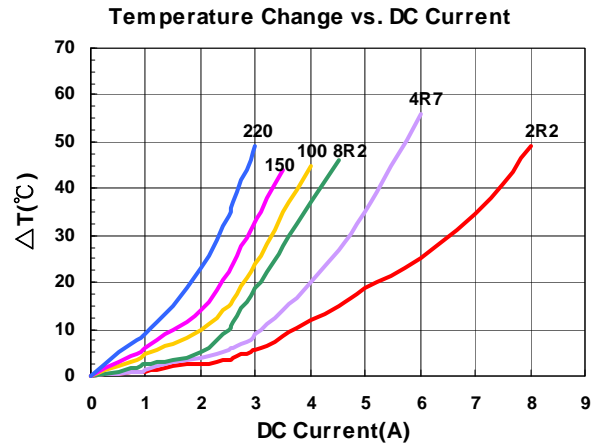
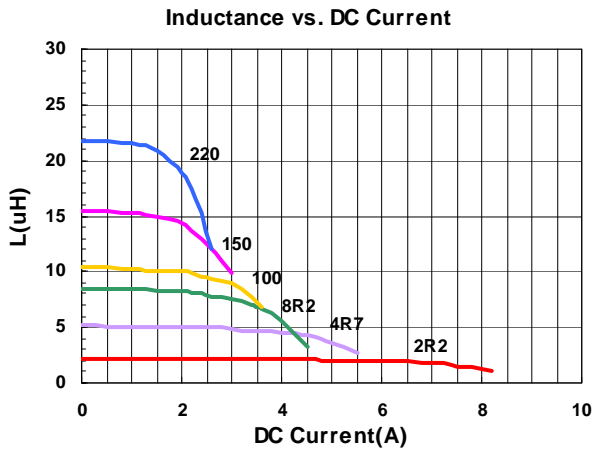
Electrical Characteristics

| Part Number | Inductance (uH) | Tolerance (±%) | Test Frequency (kHz) | RDC (mΩ) Max | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|-------------------|-----------------|----------------|----------------------|--------------|---------------------|---------------------|---------|
| LVS808040L-1R0□-N | 1.0 | 30 | 100 | 10 | 9.5(8.55) | 8.5(7.65) | 1R0 |
| LVS808040L-2R2□-N | 2.2 | 20,30 | 100 | 12 | 7.2(6.48) | 7.3(6.57) | 2R2 |
| LVS808040L-3R3□-N | 3.3 | 20,30 | 100 | 19 | 5.6(5.04) | 6.0(5.40) | 3R3 |
| LVS808040L-4R7□-N | 4.7 | 20,30 | 100 | 22 | 4.4(3.96) | 5.0(4.50) | 4R7 |
| LVS808040L-8R2□-N | 8.2 | 20,30 | 100 | 37 | 3.6(3.24) | 3.8(3.42) | 8R2 |
| LVS808040L-100□-N | 10 | 20,30 | 100 | 42 | 3.1(2.79) | 3.5(3.15) | 100 |
| LVS808040L-150□-N | 15 | 20,30 | 100 | 58 | 2.5(2.25) | 3.0(2.70) | 150 |
| LVS808040L-220□-N | 22 | 20,30 | 100 | 85 | 2.0(1.80) | 2.5(2.25) | 220 |

Note: When ordering, please specify tolerance code. Tolerance: M=±20% , T =±30%

- Operating temperature range - 55°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- I rms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment :
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 RDC : DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat & I rms : Agilent HP4284A

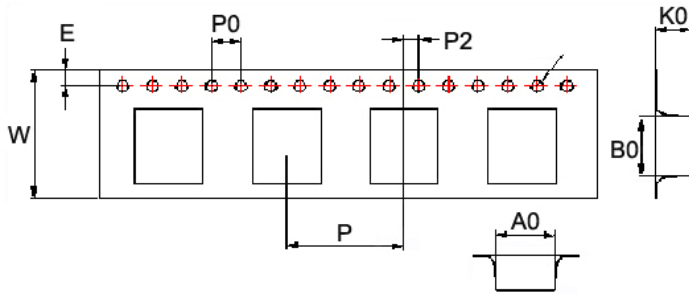
Test Instruments : HP4284A Material/Impedance Analyzer



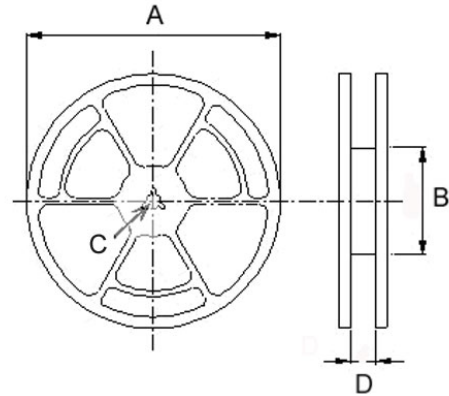
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Packaging Specifications

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE | Tape Dimensions | | | | | | | | | | Reel Dimensions | | | | Quantity PCS / Reel |
|-----------|-----------------|------|------|------|------|-----|----|-----|----|----|-----------------|-----|----|------|------------------------|
| | A0 | B0 | K0 | D | E | F | W | P | P0 | P2 | A | B | C | D | |
| LVS404012 | 4.25 | 4.25 | 1.30 | 1.55 | 1.75 | 5.5 | 12 | 8.1 | 4 | 2 | 180 | 60 | 13 | 13.2 | 1000 |
| LVS404018 | 4.25 | 4.25 | 2.10 | 1.55 | 1.75 | 5.5 | 12 | 8.1 | 4 | 2 | 180 | 60 | 13 | 13.2 | 800 |
| LVS404026 | 4.25 | 4.25 | 3.00 | 1.55 | 1.75 | 5.5 | 12 | 8.1 | 4 | 2 | 180 | 60 | 13 | 13.2 | 500 |
| LVS505020 | 5.25 | 5.25 | 2.20 | 1.55 | 1.75 | 5.5 | 12 | 8.1 | 4 | 2 | 330 | 100 | 13 | 13.4 | 2000 |
| LVS505040 | 5.20 | 5.20 | 4.20 | 1.55 | 1.75 | 5.5 | 12 | 8.1 | 4 | 2 | 330 | 100 | 13 | 13.4 | 1500 |
| LVS606020 | 6.25 | 6.25 | 2.20 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16.0 | 2000 |
| LVS606028 | 6.25 | 6.25 | 3.00 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16.0 | 1500 |
| LVS606045 | 6.25 | 6.25 | 4.65 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16.0 | 1000 |
| LVS808040 | 8.25 | 8.25 | 4.15 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16.0 | 1000 |

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