

## LVS Series



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

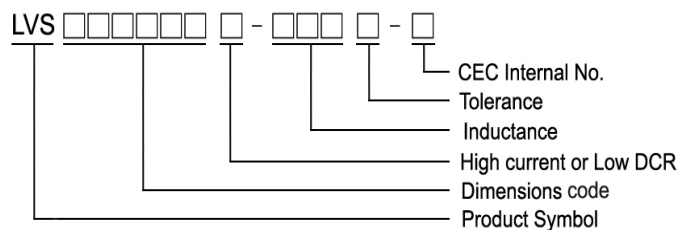
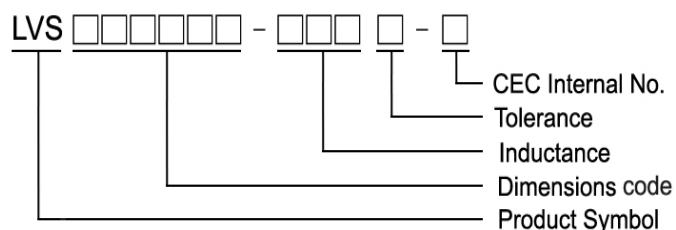
### Features

- RoHS compliant
- Highly accurate dimensions
- Terminals are highly resistant to external forces
- Highly reliable in environments of sudden temperature change and humidity
- Superior EMI characteristics with ultra low radiation comparing to conventional shielded power inductors

### Applications

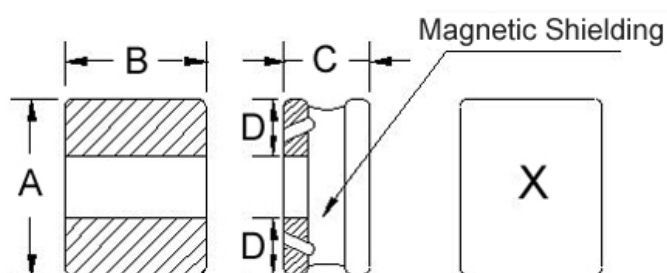
- LCD TV
- Monitor
- Ap router
- STB and smart phone
- Touch panel
- DSC
- Game console and other electronic devices

### Product Identification

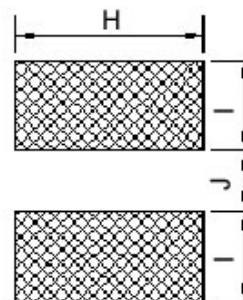


### Shape and Dimensions

Figure 1



### Recommended Pattern



Dimensions in mm

| TYPE      | FIG | A       | B       | C Max | D   | H   | I    | J   |
|-----------|-----|---------|---------|-------|-----|-----|------|-----|
| LVS201610 | 1   | 2.0±0.2 | 1.6±0.2 | 1.02  | 0.6 | 1.8 | 0.80 | 0.8 |
| LVS252010 | 1   | 2.5±0.2 | 2.0±0.2 | 1.02  | 0.8 | 2.0 | 0.85 | 0.8 |
| LVS252012 | 1   | 2.5±0.2 | 2.0±0.2 | 1.20  | 0.8 | 2.0 | 0.85 | 0.8 |

Shape and Dimensions

Figure 2

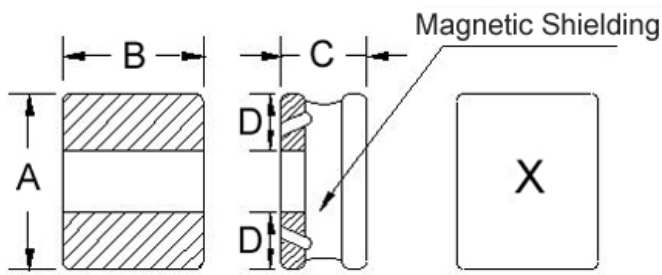
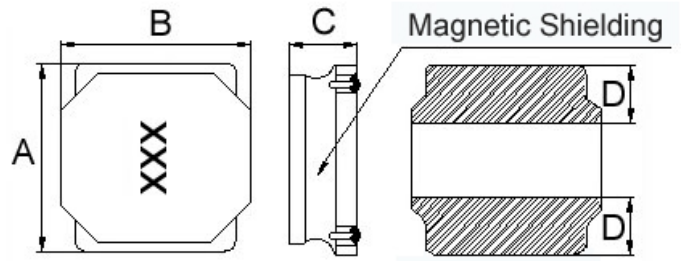


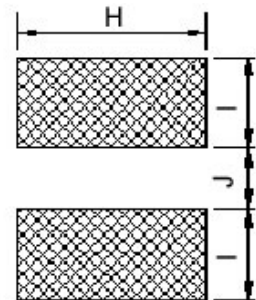
Figure 3



Dimensions in mm

| TYPE       | FIG | A       | B       | C                                    | D       | H   | I   | J   |
|------------|-----|---------|---------|--------------------------------------|---------|-----|-----|-----|
| LVS303010  | 2   | 3.0±0.2 | 3.0±0.2 | 1.02Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS303010H | 2   | 3.0±0.2 | 3.0±0.2 | 1.02Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS303012  | 2   | 3.0±0.2 | 3.0±0.2 | 1.20Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS303012H | 2   | 3.0±0.2 | 3.0±0.2 | 1.20Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS303015  | 2   | 3.0±0.2 | 3.0±0.2 | 1.50Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS303015H | 2   | 3.0±0.2 | 3.0±0.2 | 1.50Max.                             | 1.0     | 3.0 | 1.0 | 1.0 |
| LVS404012  | 2   | 4.0±0.2 | 4.0±0.2 | 1.20±0.1                             | 1.5     | 4.2 | 1.5 | 1.2 |
| LVS404018  | 3   | 4.0±0.2 | 4.0±0.2 | 1.8 <sup>+0.2</sup> <sub>-0.30</sub> | 1.3±0.3 | 3.7 | 1.2 | 1.6 |
| LVS404026  | 3   | 4.0±0.2 | 4.0±0.2 | 2.6±0.2                              | 1.4     | 3.7 | 1.2 | 1.6 |
| LVS606028  | 3   | 6.0±0.2 | 6.0±0.2 | 2.8 <sup>+0.2</sup> <sub>-0.30</sub> | 1.9±0.3 | 5.7 | 1.6 | 2.9 |

Recommended Pattern



Shape and Dimensions

Figure 4

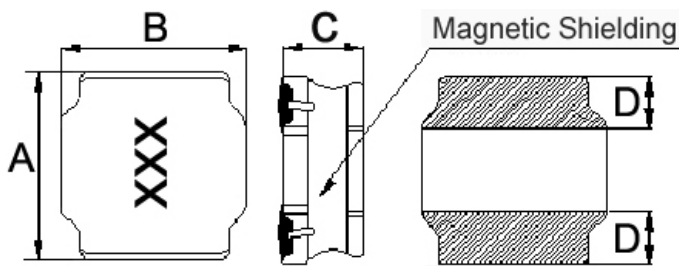
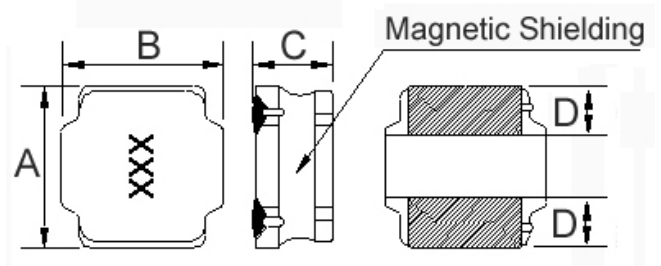


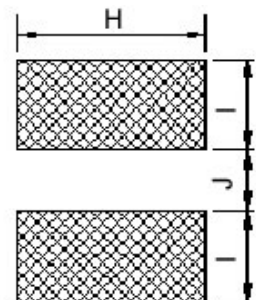
Figure 5



Dimensions in mm

| TYPE       | FIG | A       | B       | C                                    | D       | H   | I   | J   |
|------------|-----|---------|---------|--------------------------------------|---------|-----|-----|-----|
| LVS505020  | 4   | 5.0±0.2 | 5.0±0.2 | 2.0 <sup>+0.2</sup> <sub>-0.30</sub> | 1.8±0.3 | 4.0 | 1.5 | 2.1 |
| LVS505040  | 4   | 5.0±0.2 | 5.0±0.2 | 4.0 <sup>+0.2</sup> <sub>-0.30</sub> | 1.6±0.3 | 4.0 | 1.5 | 2.1 |
| LVS606020  | 4   | 6.0±0.2 | 6.0±0.2 | 2.0 <sup>+0.2</sup> <sub>-0.30</sub> | 1.7±0.3 | 5.7 | 1.6 | 2.9 |
| LVS606045  | 5   | 6.0±0.2 | 6.0±0.2 | 4.5 <sup>+0.2</sup> <sub>-0.30</sub> | 1.8±0.3 | 5.7 | 1.6 | 2.9 |
| LVS606045L | 5   | 6.0±0.2 | 6.0±0.2 | 4.5 <sup>+0.2</sup> <sub>-0.30</sub> | 1.8±0.3 | 5.7 | 1.6 | 2.9 |
| LVS808040  | 5   | 8.0±0.2 | 8.0±0.2 | 4.0 <sup>+0.2</sup> <sub>-0.30</sub> | 2.3±0.3 | 7.5 | 2.1 | 3.8 |
| LVS808040L | 5   | 8.0±0.2 | 8.0±0.2 | 4.0 <sup>+0.2</sup> <sub>-0.30</sub> | 2.3±0.3 | 7.5 | 2.1 | 3.8 |

Recommended Pattern

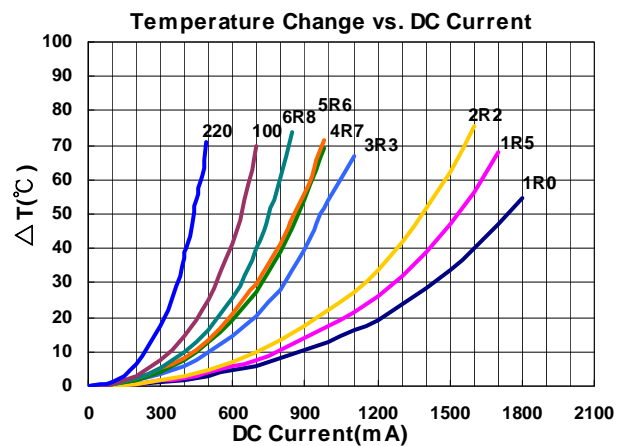


**Electrical Characteristics**

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω ±30%) | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS201610-1R0□-N | 1.0             | 1                    | 20, 30         | 0.17         | 1400(1260)           | 1600(1440)           | A       |
| LVS201610-1R5□-N | 1.5             | 1                    | 20, 30         | 0.26         | 1100(990)            | 1400(1260)           | B       |
| LVS201610-2R2□-N | 2.2             | 1                    | 20, 30         | 0.32         | 1000(900)            | 1200(1080)           | C       |
| LVS201610-3R3□-N | 3.3             | 1                    | 20, 30         | 0.51         | 820(738)             | 900(810)             | D       |
| LVS201610-4R7□-N | 4.7             | 1                    | 20, 30         | 0.67         | 680(612)             | 800(720)             | E       |
| LVS201610-5R6□-N | 5.6             | 1                    | 20, 30         | 0.72         | 650(585)             | 800(720)             | F       |
| LVS201610-6R8□-N | 6.8             | 1                    | 20, 30         | 0.97         | 560(504)             | 700(630)             | G       |
| LVS201610-100□-N | 10              | 1                    | 20, 30         | 1.45         | 470(423)             | 580(522)             | H       |
| LVS201610-120□-N | 12              | 1                    | 20, 30         | 1.65         | 420(378)             | 420(378)             | J       |
| LVS201610-220□-N | 22              | 1                    | 20, 30         | 2.90         | 310(279)             | 400(360)             | I       |

- 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 & Irms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient.
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments : HP4284A Material/Impedance Analyzer**

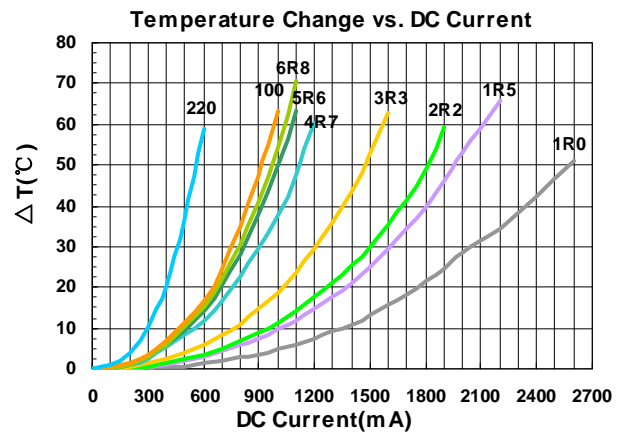
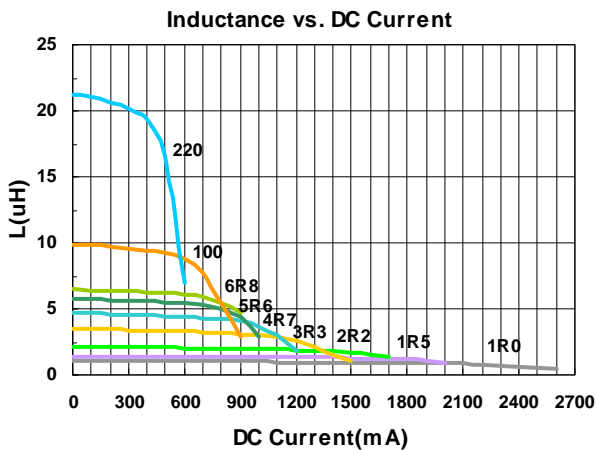


## Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω ±30%) | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS252010-1R0□-N | 1.0             | 1                    | 20, 30         | 0.093        | 2200(1980)           | 2200(1980)           | A       |
| LVS252010-1R5□-N | 1.5             | 1                    | 20, 30         | 0.148        | 1900(1710)           | 1800(1620)           | B       |
| LVS252010-2R2□-N | 2.2             | 1                    | 20, 30         | 0.178        | 1620(1458)           | 1680(1512)           | C       |
| LVS252010-3R3□-N | 3.3             | 1                    | 20, 30         | 0.286        | 1220(1098)           | 1340(1206)           | D       |
| LVS252010-4R7□-N | 4.7             | 1                    | 20, 30         | 0.421        | 1040(936)            | 1020(918)            | E       |
| LVS252010-5R6□-N | 5.6             | 1                    | 20, 30         | 0.481        | 920(828)             | 940(846)             | F       |
| LVS252010-6R8□-N | 6.8             | 1                    | 20, 30         | 0.598        | 900(810)             | 880(792)             | G       |
| LVS252010-100□-N | 10              | 1                    | 20, 30         | 0.797        | 740(666)             | 820(738)             | H       |
| LVS252010-150□-N | 15              | 1                    | 20, 30         | 1.450        | 520(468)             | 400(360)             | L       |
| LVS252010-220□-N | 22              | 1                    | 20, 30         | 1.839        | 500(450)             | 520(468)             | I       |

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

## Test Instruments : HP4284A Material/Impedance Analyzer

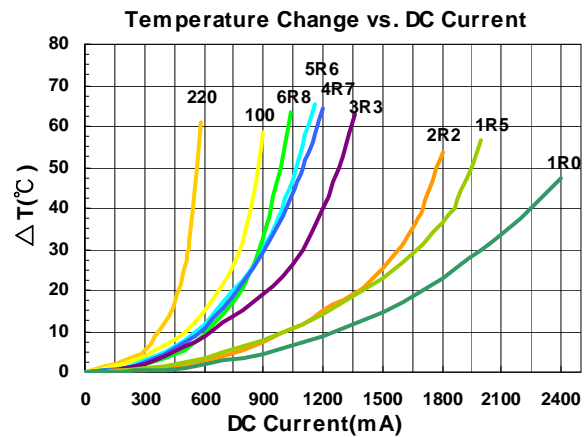
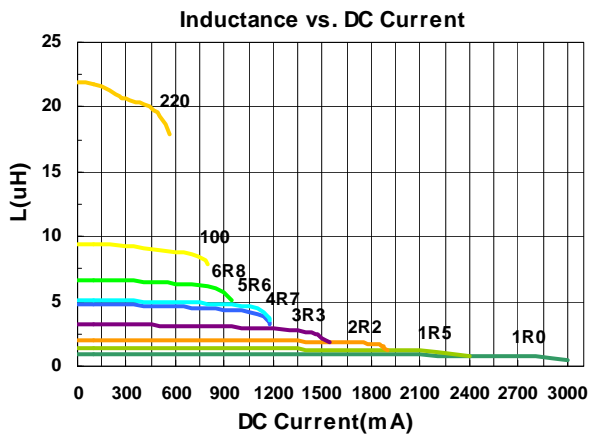


## Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS252012-1R0□-N | 1.0             | 1                    | 20, 30         | 0.105        | 2800(2520)           | 2200(1980)           | A       |
| LVS252012-1R5□-N | 1.5             | 1                    | 20, 30         | 0.153        | 2200(1980)           | 1860(1674)           | B       |
| LVS252012-2R2□-N | 2.2             | 1                    | 20, 30         | 0.219        | 1800(1620)           | 1700(1530)           | C       |
| LVS252012-3R3□-N | 3.3             | 1                    | 20, 30         | 0.349        | 1300(1170)           | 1200(1080)           | D       |
| LVS252012-4R7□-N | 4.7             | 1                    | 20, 30         | 0.507        | 1100(990)            | 1040(936)            | E       |
| LVS252012-5R6□-N | 5.6             | 1                    | 20, 30         | 0.525        | 1100(990)            | 1000(900)            | F       |
| LVS252012-6R8□-N | 6.8             | 1                    | 20, 30         | 0.760        | 940(846)             | 940(846)             | G       |
| LVS252012-100□-N | 10              | 1                    | 20, 30         | 0.915        | 820(738)             | 840(756)             | H       |
| LVS252012-220□-N | 22              | 1                    | 20, 30         | 2.110        | 550(495)             | 540(486)             | I       |

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- 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 -40°C to 125°C . (Including self - temperature rise)

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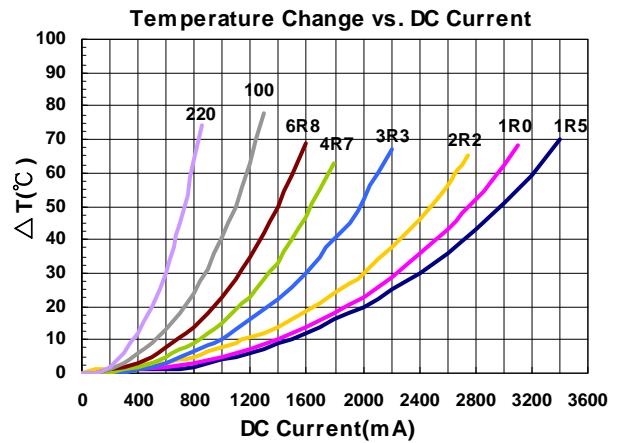
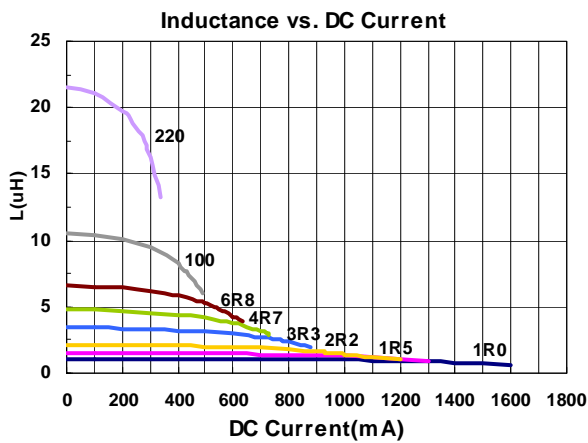


## Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303010-1R0□-N | 1.0             | 1                    | 20, 30         | 0.063        | 1300(1170)           | 2400(2160)           | 1R0     |
| LVS303010-1R5□-N | 1.5             | 1                    | 20, 30         | 0.077        | 1100(990)            | 2200(1980)           | 1R5     |
| LVS303010-2R2□-N | 2.2             | 1                    | 20, 30         | 0.087        | 960(864)             | 2000(1800)           | 2R2     |
| LVS303010-3R3□-N | 3.3             | 1                    | 20, 30         | 0.127        | 780(702)             | 1600(1440)           | 3R3     |
| LVS303010-4R7□-N | 4.7             | 1                    | 20, 30         | 0.186        | 650(585)             | 1300(1170)           | 4R7     |
| LVS303010-6R8□-N | 6.8             | 1                    | 20, 30         | 0.253        | 560(504)             | 1000(900)            | 6R8     |
| LVS303010-100□-N | 10              | 1                    | 20, 30         | 0.353        | 430(387)             | 880(792)             | 100     |
| LVS303010-220□-N | 22              | 1                    | 20, 30         | 0.693        | 310(279)             | 580(522)             | 220     |
| LVS303010-470□-N | 47              | 1                    | 20, 30         | 1.800        | 210(189)             | 330(297)             | 470     |
| LVS303010-221□-N | 220             | 1                    | 20, 30         | 6.500        | 82(73.8)             | 180(162)             | 221     |

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- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
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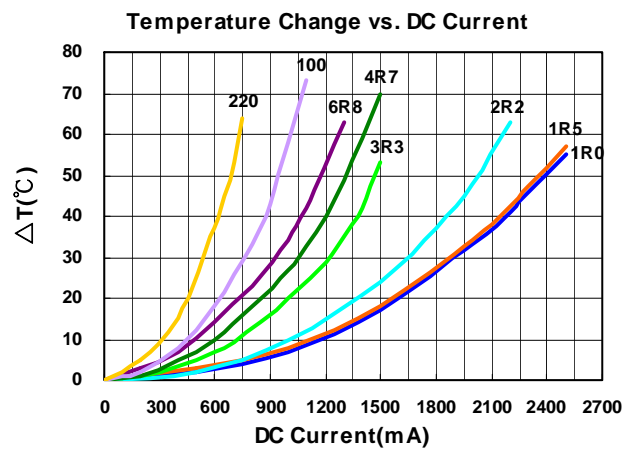
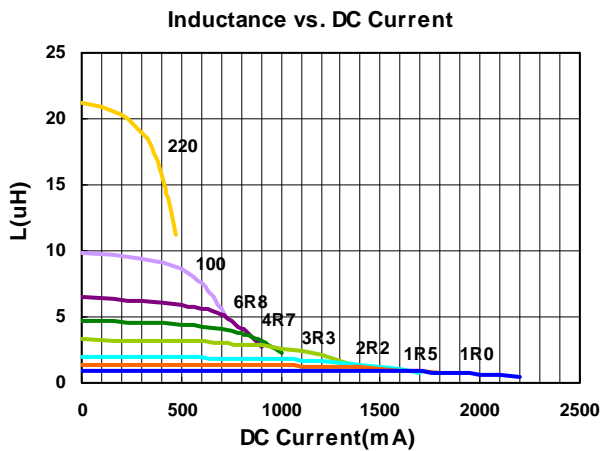


## Electrical Characteristics

| Part Number       | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω ±30%) | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|-------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303010H-1R0□-N | 1.0             | 1                    | 20, 30         | 0.060        | 1800(1620)           | 2200(1980)           | 1R0     |
| LVS303010H-1R5□-N | 1.5             | 1                    | 20, 30         | 0.075        | 1600(1440)           | 2100(1890)           | 1R5     |
| LVS303010H-2R2□-N | 2.2             | 1                    | 20, 30         | 0.095        | 1400(1260)           | 1900(1710)           | 2R2     |
| LVS303010H-3R3□-N | 3.3             | 1                    | 20, 30         | 0.140        | 1000(900)            | 1300(1170)           | 3R3     |
| LVS303010H-4R7□-N | 4.7             | 1                    | 20, 30         | 0.190        | 850(765)             | 1200(1080)           | 4R7     |
| LVS303010H-6R8□-N | 6.8             | 1                    | 20, 30         | 0.275        | 720(648)             | 1000(900)            | 6R8     |
| LVS303010H-100□-N | 10              | 1                    | 20, 30         | 0.440        | 610(549)             | 860(774)             | 100     |
| LVS303010H-220□-N | 22              | 1                    | 20, 30         | 0.800        | 420(378)             | 620(558)             | 220     |

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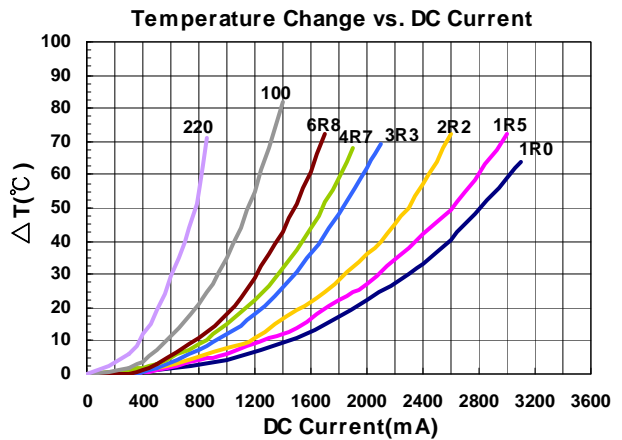
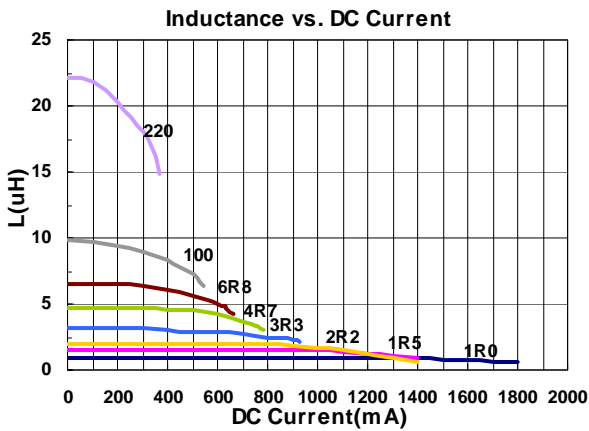


**Electrical Characteristics**

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω ±30%) | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303012-1R0□-N | 1.0             | 1                    | 20, 30         | 0.048        | 1600(1440)           | 2500(2250)           | 1R0     |
| LVS303012-1R5□-N | 1.5             | 1                    | 20, 30         | 0.063        | 1200(1080)           | 2300(2070)           | 1R5     |
| LVS303012-2R2□-N | 2.2             | 1                    | 20, 30         | 0.076        | 1100(990)            | 2000(1800)           | 2R2     |
| LVS303012-3R3□-N | 3.3             | 1                    | 20, 30         | 0.102        | 900(810)             | 1600(1440)           | 3R3     |
| LVS303012-4R7□-N | 4.7             | 1                    | 20, 30         | 0.136        | 750(675)             | 1500(1350)           | 4R7     |
| LVS303012-6R8□-N | 6.8             | 1                    | 20, 30         | 0.182        | 630(567)             | 1300(1170)           | 6R8     |
| LVS303012-100□-N | 10              | 1                    | 20, 30         | 0.275        | 520(468)             | 1000(900)            | 100     |
| LVS303012-220□-N | 22              | 1                    | 20, 30         | 0.594        | 350(315)             | 650(585)             | 220     |

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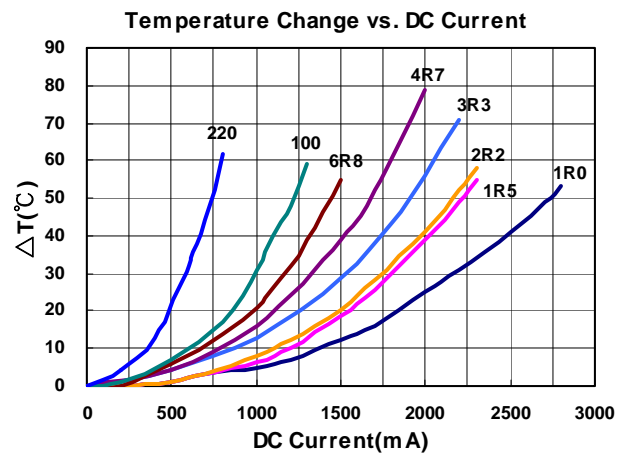


## Electrical Characteristics

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|-------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303012H-1R0□-N | 1.0             | 1                    | 20,30          | 0.056        | 1900(1710)           | 2100(1890)           | 1R0     |
| LVS303012H-1R5□-N | 1.5             | 1                    | 20,30          | 0.065        | 1500(1350)           | 1850(1665)           | 1R5     |
| LVS303012H-2R2□-N | 2.2             | 1                    | 20,30          | 0.080        | 1400(1260)           | 1800(1620)           | 2R2     |
| LVS303012H-3R3□-N | 3.3             | 1                    | 20,30          | 0.100        | 1100(990)            | 1600(1440)           | 3R3     |
| LVS303012H-4R7□-N | 4.7             | 1                    | 20,30          | 0.130        | 990(891)             | 1400(1260)           | 4R7     |
| LVS303012H-6R8□-N | 6.8             | 1                    | 20,30          | 0.190        | 850(765)             | 1200(1080)           | 6R8     |
| LVS303012H-100□-N | 10              | 1                    | 20,30          | 0.270        | 720(648)             | 1000(900)            | 100     |
| LVS303012H-220□-N | 22              | 1                    | 20,30          | 0.600        | 450(405)             | 630(567)             | 220     |

- 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 -40°C to 125°C. (Including self - temperature rise)

**Test Instruments :** HP4284A Material/Impedance Analyzer

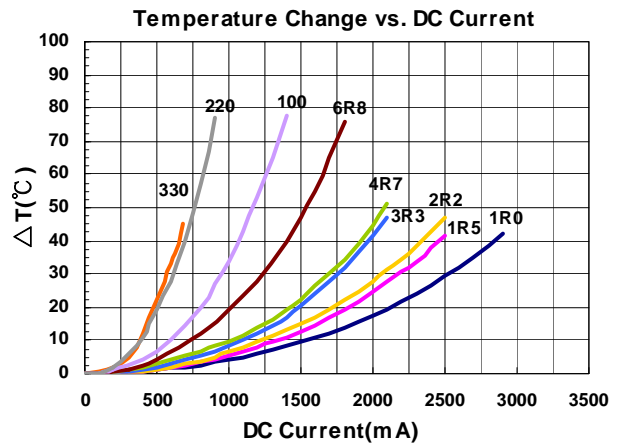
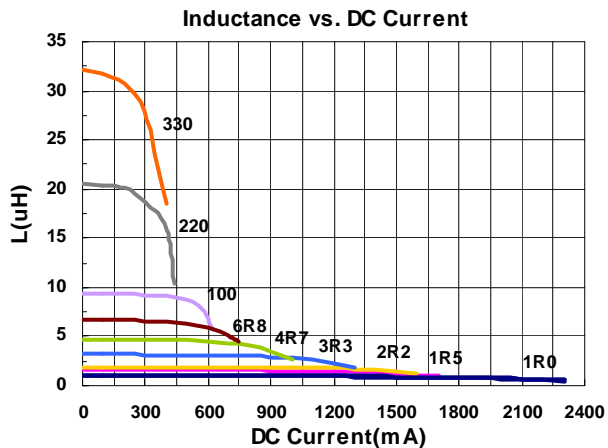


## Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω) ±30% | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303015-1R0□-N | 1.0             | 1                    | 20, 30         | 0.056        | 2000(1800)           | 2800(2520)           | 1R0     |
| LVS303015-1R5□-N | 1.5             | 1                    | 20, 30         | 0.074        | 1600(1440)           | 2400(2160)           | 1R5     |
| LVS303015-2R2□-N | 2.2             | 1                    | 20, 30         | 0.079        | 1200(1080)           | 2300(2070)           | 2R2     |
| LVS303015-3R3□-N | 3.3             | 1                    | 20, 30         | 0.105        | 1000(900)            | 1900(1710)           | 3R3     |
| LVS303015-4R7□-N | 4.7             | 1                    | 20, 30         | 0.130        | 900(810)             | 1600(1440)           | 4R7     |
| LVS303015-6R8□-N | 6.8             | 1                    | 20, 30         | 0.165        | 730(657)             | 1300(1170)           | 6R8     |
| LVS303015-100□-N | 10              | 1                    | 20, 30         | 0.206        | 600(540)             | 1000(900)            | 100     |
| LVS303015-220□-N | 22              | 1                    | 20, 30         | 0.501        | 420(378)             | 650(585)             | 220     |
| LVS303015-330□-N | 33              | 1                    | 20, 30         | 0.600        | 330(297)             | 600(540)             | 330     |
| LVS303015-820□-N | 82              | 1                    | 20, 30         | 1.600        | 210(189)             | 350(315)             | 820     |
| LVS303015-101□-N | 100             | 1                    | 20, 30         | 1.800        | 200(180)             | 300(270)             | 101     |

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- 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 -40°C to 125°C. (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer

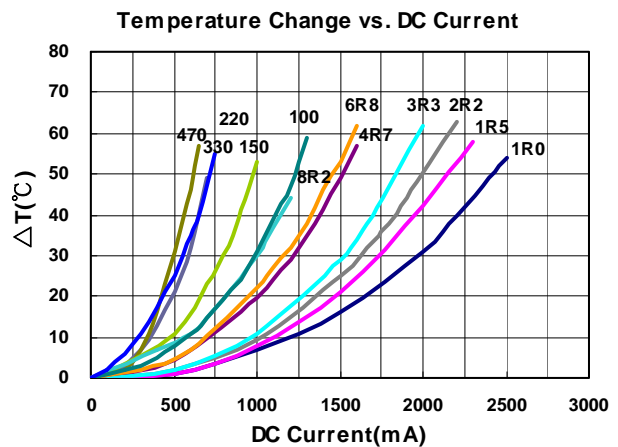


## Electrical Characteristics

| Part Number       | Inductance (uH) | Test Frequency (MHz) | Tolerance (±%) | RDC (Ω ±30%) | Isat (mA) Typ. (Max) | Irms (mA) Typ. (Max) | Marking |
|-------------------|-----------------|----------------------|----------------|--------------|----------------------|----------------------|---------|
| LVS303015H-1R0□-N | 1.0             | 1                    | 20, 30         | 0.053        | 2000(1800)           | 2100(1890)           | 1R0     |
| LVS303015H-1R5□-N | 1.5             | 1                    | 20, 30         | 0.070        | 1600(1440)           | 1900(1710)           | 1R5     |
| LVS303015H-2R2□-N | 2.2             | 1                    | 20, 30         | 0.075        | 1500(1350)           | 1800(1620)           | 2R2     |
| LVS303015H-3R3□-N | 3.3             | 1                    | 20, 30         | 0.095        | 1100(990)            | 1600(1440)           | 3R3     |
| LVS303015H-4R7□-N | 4.7             | 1                    | 20, 30         | 0.117        | 990(891)             | 1400(1260)           | 4R7     |
| LVS303015H-6R8□-N | 6.8             | 1                    | 20, 30         | 0.160        | 900(810)             | 1200(1080)           | 6R8     |
| LVS303015H-8R2□-N | 8.2             | 1                    | 20, 30         | 0.200        | 800(720)             | 1100(990)            | 8R2     |
| LVS303015H-100□-N | 10              | 1                    | 20, 30         | 0.220        | 720(648)             | 1000(900)            | 100     |
| LVS303015H-150□-N | 15              | 1                    | 20, 30         | 0.290        | 680(612)             | 850(765)             | 150     |
| LVS303015H-220□-N | 22              | 1                    | 20, 30         | 0.530        | 480(432)             | 620(558)             | 220     |
| LVS303015H-330□-N | 33              | 1                    | 20, 30         | 0.670        | 460(414)             | 500(450)             | 330     |
| LVS303015H-470□-N | 47              | 1                    | 20, 30         | 0.960        | 380(342)             | 400(360)             | 470     |

- 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 & Iirms : Agilent/HP4284A, 1MHz 200mV
- Isat for Inductance drop 30% from its value without current
- Iirms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C . (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer



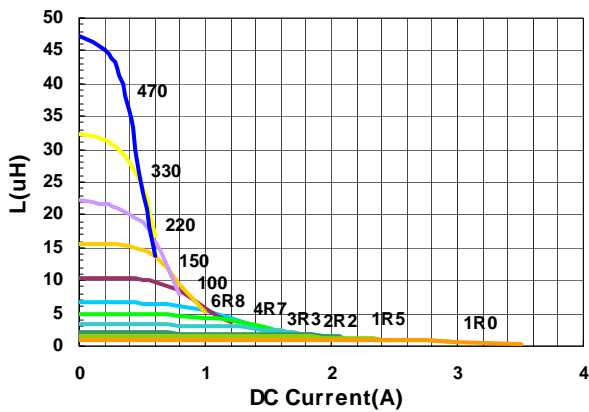
## Electrical Characteristics

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

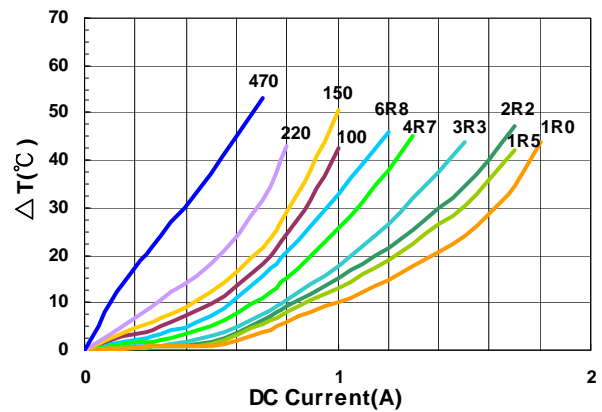
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current

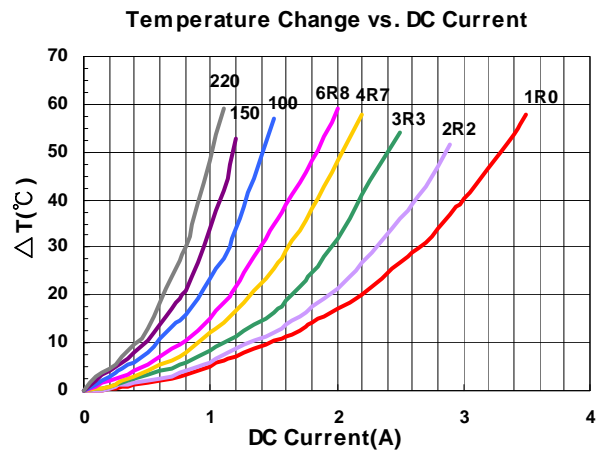
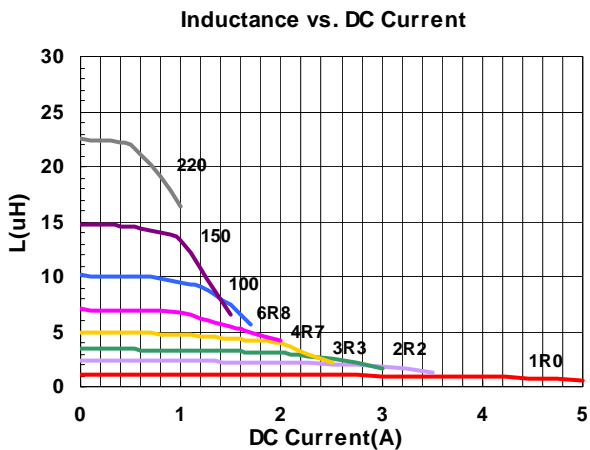


Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (mΩ) ±20% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|---------------|---------------------|---------------------|---------|
| LVS404018-1R0□-N | 1.0             | 100                  | 20, 30         | 32            | 4.10(3.69)          | 2.80(2.52)          | 1R0     |
| LVS404018-1R5□-N | 1.5             | 100                  | 20, 30         | 40            | 3.30(2.97)          | 2.60(2.34)          | 1R5     |
| LVS404018-2R2□-N | 2.2             | 100                  | 20, 30         | 60            | 2.80(2.52)          | 2.50(2.25)          | 2R2     |
| LVS404018-2R3□-N | 2.3             | 100                  | 20, 30         | 60            | 2.80(2.52)          | 2.50(2.25)          | 2R3     |
| LVS404018-3R3□-N | 3.3             | 100                  | 20, 30         | 70            | 2.20(1.98)          | 2.10(1.89)          | 3R3     |
| LVS404018-3R6□-N | 3.6             | 100                  | 20, 30         | 75            | 2.10(1.89)          | 1.90(1.71)          | 3R6     |
| LVS404018-3R9□-N | 3.9             | 100                  | 20, 30         | 75            | 2.10(1.89)          | 1.90(1.71)          | 3R9     |
| LVS404018-4R7□-N | 4.7             | 100                  | 20, 30         | 90            | 2.00(1.80)          | 1.70(1.53)          | 4R7     |
| LVS404018-6R8□-N | 6.8             | 100                  | 20, 30         | 110           | 1.60(1.44)          | 1.50(1.35)          | 6R8     |
| LVS404018-100□-N | 10              | 100                  | 20, 30         | 170           | 1.40(1.26)          | 1.20(1.08)          | 100     |
| LVS404018-150□-N | 15              | 100                  | 20, 30         | 250           | 1.00(0.90)          | 1.00(0.90)          | 150     |
| LVS404018-220□-N | 22              | 100                  | 20, 30         | 350           | 0.90(0.81)          | 0.85(0.76)          | 220     |
| LVS404018-330□-N | 33              | 100                  | 20, 30         | 530           | 0.80(0.72)          | 0.70(0.63)          | 330     |
| LVS404018-470□-N | 47              | 100                  | 20, 30         | 720           | 0.70(0.63)          | 0.56(0.50)          | 470     |
| LVS404018-680□-N | 68              | 100                  | 20, 30         | 1000          | 0.56(0.50)          | 0.45(0.40)          | 680     |
| LVS404018-101□-N | 100             | 100                  | 20, 30         | 1500          | 0.46(0.41)          | 0.38(0.34)          | 101     |
| LVS404018-151□-N | 150             | 100                  | 20, 30         | 2500          | 0.35(0.31)          | 0.30(0.27)          | 151     |
| LVS404018-221□-N | 220             | 100                  | 20, 30         | 4000          | 0.28(0.25)          | 0.23(0.20)          | 221     |

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

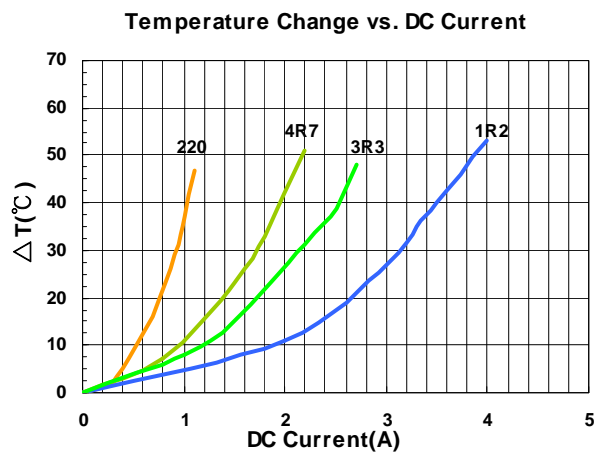
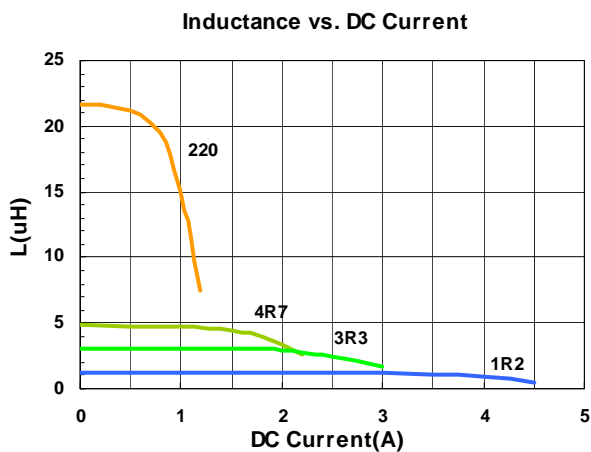


## Electrical Characteristics

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

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A , 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer

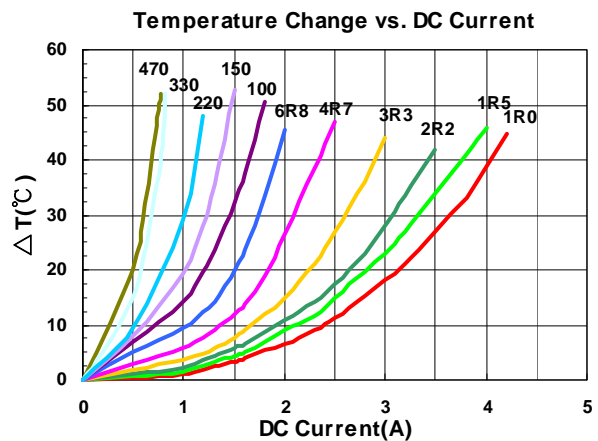


**Electrical Characteristics**

| Part Number      | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (mΩ) ±20% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|---------------|---------------------|---------------------|---------|
| LVS505020-1R0□-N | 1.0             | 100                  | 30             | 21            | 5.1(4.59)           | 4.0(3.60)           | 1R0     |
| LVS505020-1R2□-N | 1.2             | 100                  | 30             | 21            | 4.8(4.32)           | 3.8(3.42)           | 1R2     |
| LVS505020-1R5□-N | 1.5             | 100                  | 30             | 26            | 4.2(3.78)           | 3.5(3.15)           | 1R5     |
| LVS505020-2R2□-N | 2.2             | 100                  | 20, 30         | 35            | 3.4(3.06)           | 3.2(2.88)           | 2R2     |
| LVS505020-3R3□-N | 3.3             | 100                  | 20, 30         | 48            | 3.0(2.70)           | 2.8(2.52)           | 3R3     |
| LVS505020-4R7□-N | 4.7             | 100                  | 20, 30         | 60            | 2.2(1.98)           | 2.2(1.98)           | 4R7     |
| LVS505020-5R6□-N | 5.6             | 100                  | 20, 30         | 82            | 2.05(1.84)          | 2.0(1.80)           | 5R6     |
| LVS505020-6R8□-N | 6.8             | 100                  | 20, 30         | 90            | 2.0(1.80)           | 1.8(1.62)           | 6R8     |
| LVS505020-100□-N | 10              | 100                  | 20, 30         | 120           | 1.6(1.44)           | 1.6(1.44)           | 100     |
| LVS505020-150□-N | 15              | 100                  | 20, 30         | 190           | 1.3(1.17)           | 1.2(1.08)           | 150     |
| LVS505020-220□-N | 22              | 100                  | 20, 30         | 260           | 1.0(0.90)           | 1.0(0.90)           | 220     |
| LVS505020-330□-N | 33              | 100                  | 20, 30         | 460           | 0.8(0.72)           | 0.75(0.67)          | 330     |
| LVS505020-470□-N | 47              | 100                  | 20, 30         | 580           | 0.65(0.58)          | 0.65(0.60)          | 470     |

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments : HP4284A Material/Impedance Analyzer**

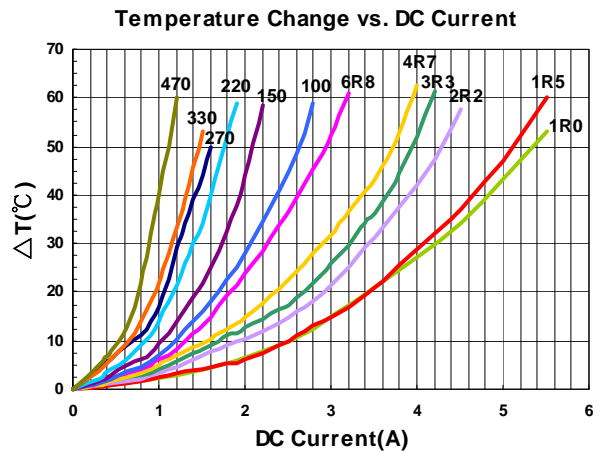
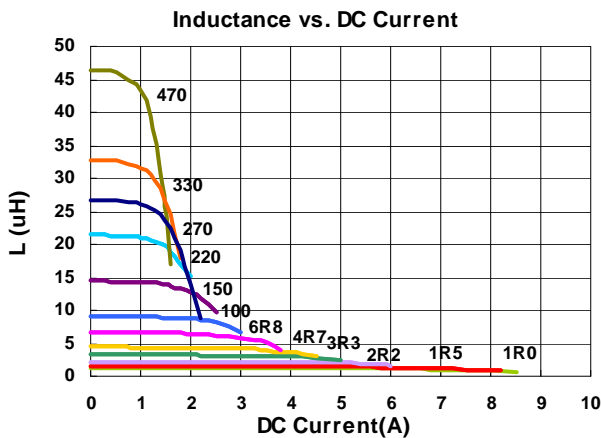


**Electrical Characteristics**

| Part Number      | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|---------------|---------------------|---------------------|---------|
| LVS505040-1R0□-N | 1.0             | 100                  | 30             | 14            | 7.5(6.75)           | 4.6(4.14)           | 1R0     |
| LVS505040-1R2□-N | 1.2             | 100                  | 30             | 15            | 7.4(6.66)           | 4.5(4.05)           | 1R2     |
| LVS505040-1R5□-N | 1.5             | 100                  | 30             | 16            | 7.1(6.39)           | 4.4(3.96)           | 1R5     |
| LVS505040-2R2□-N | 2.2             | 100                  | 20, 30         | 21            | 5.7(5.13)           | 3.7(3.33)           | 2R2     |
| LVS505040-3R3□-N | 3.3             | 100                  | 20, 30         | 26            | 4.8(4.32)           | 3.5(3.15)           | 3R3     |
| LVS505040-4R7□-N | 4.7             | 100                  | 20, 30         | 32            | 4.2(3.78)           | 3.2(2.88)           | 4R7     |
| LVS505040-6R8□-N | 6.8             | 100                  | 20, 30         | 50            | 3.3(2.97)           | 2.4(2.16)           | 6R8     |
| LVS505040-100□-N | 10              | 100                  | 20, 30         | 60            | 2.8(2.52)           | 2.2(1.98)           | 100     |
| LVS505040-150□-N | 15              | 100                  | 20, 30         | 90            | 2.3(2.07)           | 1.8(1.62)           | 150     |
| LVS505040-220□-N | 22              | 100                  | 20, 30         | 135           | 1.8(1.62)           | 1.4(1.26)           | 220     |
| LVS505040-270□-N | 27              | 100                  | 20, 30         | 180           | 1.6(1.44)           | 1.2(1.08)           | 270     |
| LVS505040-330□-N | 33              | 100                  | 20, 30         | 190           | 1.5(1.35)           | 1.1(0.99)           | 330     |
| LVS505040-470□-N | 47              | 100                  | 20, 30         | 310           | 1.2(1.08)           | 0.9(0.81)           | 470     |

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments : HP4284A Material/Impedance Analyzer**



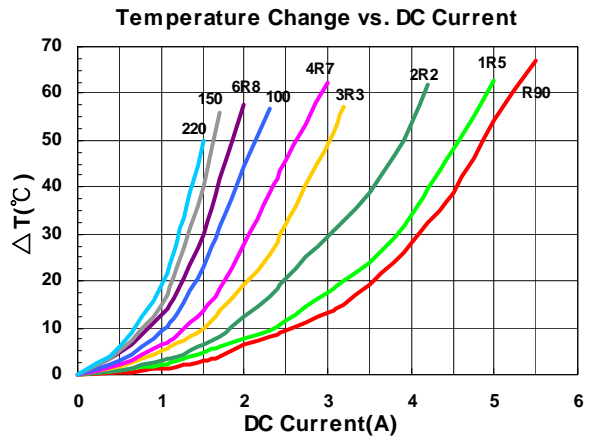
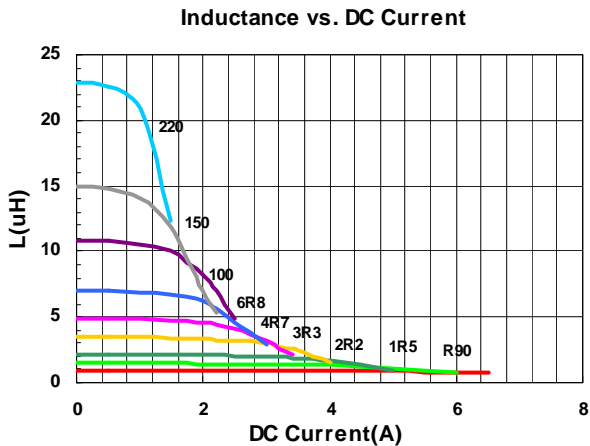


**Electrical Characteristics**

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

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments : HP4284A Material/Impedance Analyzer**

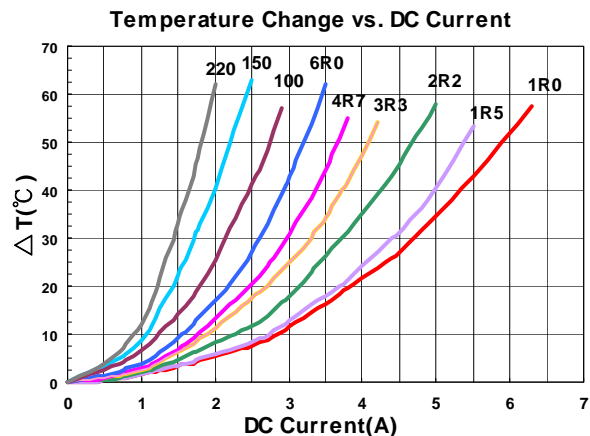
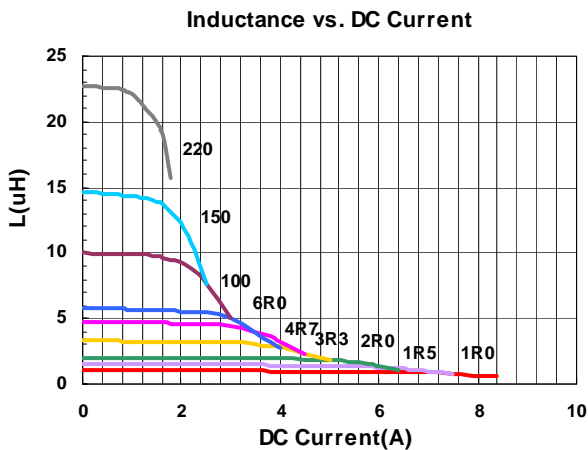


**Electrical Characteristics**

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

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments :** HP4284A Material/Impedance Analyzer



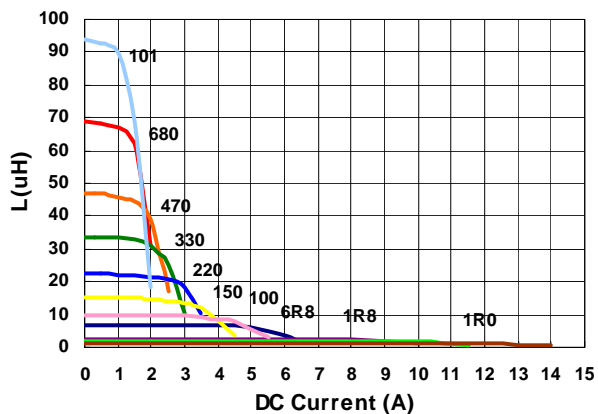
## Electrical Characteristics

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

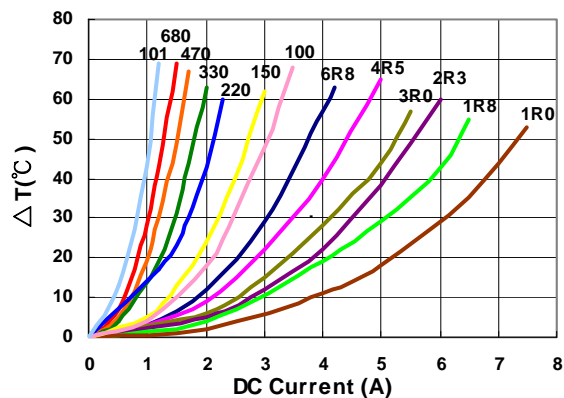
- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

Inductance vs. DC Current



Temperature Change vs. DC Current

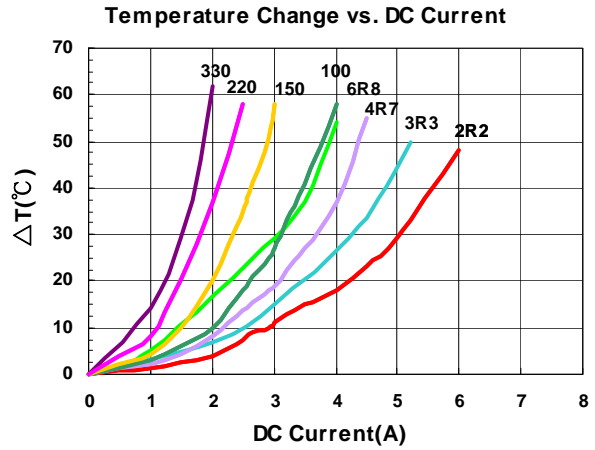
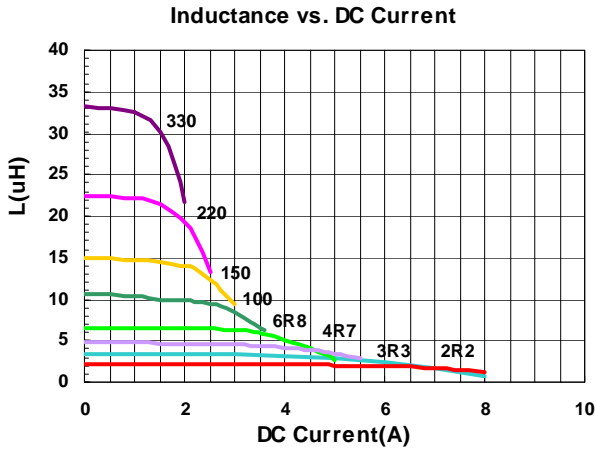


**Electrical Characteristics**

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

- When ordering, please specify tolerance and packaging codes
- Tolerance : M = ±20% , T = ±30%
- L : Agilent/HP 4284A + Agilent/HP 16334A, 100KHz with 1V
- Isat & Irms : Agilent/HP 4284A, 100KHz with 1V
- Rdc : Digital Milliohm Meter Chroma 16502, or equivalent
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C rise above 25°C ambient
- Operating temperature range from -40°C to 125°C. (Including self - temperature rise)

**Test Instruments : HP4284A Material/Impedance Analyzer**

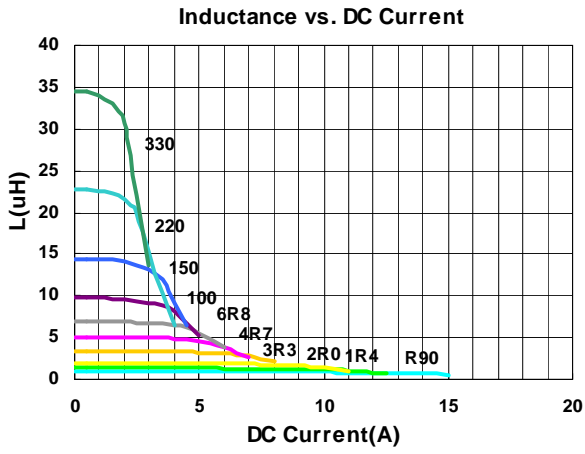


## Electrical Characteristics

| Part Number      | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (mΩ) ±30% | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|------------------|-----------------|----------------------|----------------|---------------|---------------------|---------------------|---------|
| LVS808040-R90□-N | 0.9             | 100                  | 30             | 7             | 13.8(12.42)         | 8.05(7.24)          | R90     |
| LVS808040-1R0□-N | 1.0             | 100                  | 30             | 7.5           | 13.0(11.70)         | 7.95(7.15)          | 1R0     |
| LVS808040-1R4□-N | 1.4             | 100                  | 30             | 9             | 10.8(9.72)          | 7.8(7.02)           | 1R4     |
| LVS808040-1R5□-N | 1.5             | 100                  | 30             | 9.5           | 10.08(9.07)         | 7.7(6.93)           | 1R5     |
| LVS808040-2R0□-N | 2.0             | 100                  | 20, 30         | 11            | 9.6(8.64)           | 7.4(6.66)           | 2R0     |
| LVS808040-2R2□-N | 2.2             | 100                  | 20, 30         | 11.5          | 9.2(8.28)           | 7.2(6.48)           | 2R2     |
| LVS808040-2R5□-N | 2.5             | 100                  | 20, 30         | 13            | 8.2(7.38)           | 6.3(5.67)           | 2R5     |
| LVS808040-3R3□-N | 3.3             | 100                  | 20, 30         | 15            | 7.5(6.75)           | 6.0(5.40)           | 3R3     |
| LVS808040-4R7□-N | 4.7             | 100                  | 20, 30         | 18            | 6.0(5.40)           | 5.5(4.95)           | 4R7     |
| LVS808040-5R6□-N | 5.6             | 100                  | 20, 30         | 23            | 5.7(5.13)           | 5.2(4.68)           | 5R6     |
| LVS808040-6R8□-N | 6.8             | 100                  | 20, 30         | 25            | 5.4(4.86)           | 5.1(4.59)           | 6R8     |
| LVS808040-100□-N | 10              | 100                  | 20, 30         | 38            | 4.3(3.87)           | 3.8(3.42)           | 100     |
| LVS808040-120□-N | 12              | 100                  | 20, 30         | 45            | 3.8(3.42)           | 3.5(3.15)           | 120     |
| LVS808040-150□-N | 15              | 100                  | 20, 30         | 50            | 3.6(3.24)           | 3.2(2.88)           | 150     |
| LVS808040-180□-N | 18              | 100                  | 20, 30         | 68            | 3.1(2.79)           | 2.7(2.43)           | 180     |
| LVS808040-220□-N | 22              | 100                  | 20, 30         | 80            | 2.8(2.52)           | 2.6(2.34)           | 220     |
| LVS808040-330□-N | 33              | 100                  | 20, 30         | 110           | 2.3(2.07)           | 2.0(1.80)           | 330     |
| LVS808040-470□-N | 47              | 100                  | 20, 30         | 160           | 1.9(1.71)           | 1.75(1.57)          | 470     |
| LVS808040-680□-N | 68              | 100                  | 20, 30         | 240           | 1.7(1.53)           | 1.45(1.30)          | 680     |
| LVS808040-101□-N | 100             | 100                  | 20, 30         | 340           | 1.4(1.26)           | 1.10(0.99)          | 101     |
| LVS808040-121□-N | 120             | 100                  | 20, 30         | 425           | 1.1(0.99)           | 1.0(0.90)           | 121     |
| LVS808040-151□-N | 150             | 100                  | 20, 30         | 480           | 1.0(0.90)           | 0.9(0.81)           | 151     |
| LVS808040-221□-N | 220             | 100                  | 20, 30         | 670           | 0.94(0.84)          | 0.60(0.54)          | 221     |
| LVS808040-271□-N | 270             | 100                  | 20, 30         | 900           | 0.83(0.74)          | 0.55(0.49)          | 271     |
| LVS808040-821□-N | 820             | 100                  | 20, 30         | 2800          | 0.40(0.36)          | 0.38(0.34)          | 821     |

- 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 -40°C to 125°C . (Including self - temperature rise)

Test Instruments : HP4284A Material/Impedance Analyzer

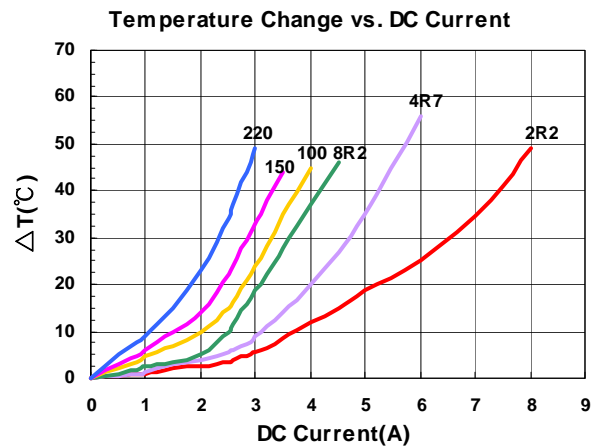
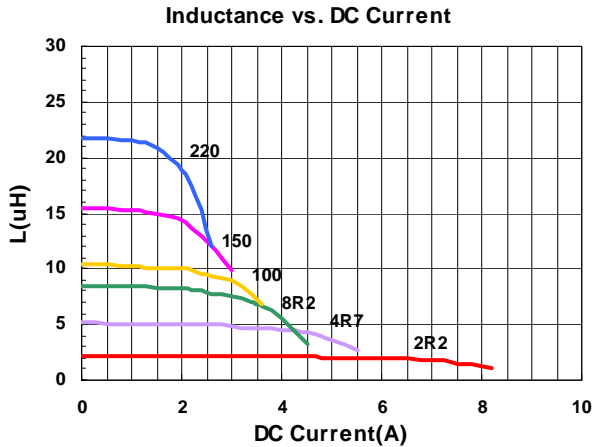


## Electrical Characteristics

| Part Number       | Inductance (uH) | Test Frequency (KHz) | Tolerance (±%) | RDC (mΩ) Max | Isat (A) Typ. (Max) | Irms (A) Typ. (Max) | Marking |
|-------------------|-----------------|----------------------|----------------|--------------|---------------------|---------------------|---------|
| LVS808040L-1R0□-N | 1.0             | 100                  | 30             | 10           | 9.5(8.55)           | 8.5(7.65)           | 1R0     |
| LVS808040L-2R2□-N | 2.2             | 100                  | 20,30          | 12           | 7.2(6.48)           | 7.3(6.57)           | 2R2     |
| LVS808040L-3R3□-N | 3.3             | 100                  | 20,30          | 19           | 5.6(5.04)           | 6.0(5.40)           | 3R3     |
| LVS808040L-4R7□-N | 4.7             | 100                  | 20,30          | 22           | 4.4(3.96)           | 5.0(4.50)           | 4R7     |
| LVS808040L-8R2□-N | 8.2             | 100                  | 20,30          | 37           | 3.6(3.24)           | 3.8(3.42)           | 8R2     |
| LVS808040L-100□-N | 10              | 100                  | 20,30          | 42           | 3.1(2.79)           | 3.5(3.15)           | 100     |
| LVS808040L-150□-N | 15              | 100                  | 20,30          | 58           | 2.5(2.25)           | 3.0(2.70)           | 150     |
| LVS808040L-220□-N | 22              | 100                  | 20,30          | 85           | 2.0(1.80)           | 2.5(2.25)           | 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 -40°C to 125°C. (Including self - temperature rise)

## Test Instruments : HP4284A Material/Impedance Analyzer

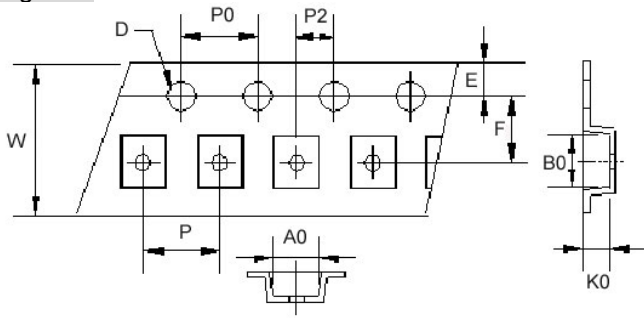




**Packaging Specifications**

**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<br>PCS / Reel |
|-----------|-----|-----------------|------|------|------|------|-----|-----|----|----|----|-----------------|-----|----|------|-----|------------------------|
|           |     | A0              | B0   | K0   | D    | E    | F   | W   | P  | P0 | P2 | A               | B   | C  | D    | E   |                        |
| LVS201610 | 1   | 1.80            | 2.20 | 1.15 | 1.55 | 1.75 | 3.5 | 8.1 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS252010 | 1   | 2.30            | 2.70 | 1.15 | 1.55 | 1.75 | 3.5 | 8.1 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS252012 | 1   | 2.30            | 2.70 | 1.30 | 1.55 | 1.75 | 3.5 | 8.1 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS303010 | 1   | 3.20            | 3.20 | 1.40 | 1.55 | 1.75 | 3.5 | 8.0 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS303012 | 1   | 3.20            | 3.20 | 1.40 | 1.55 | 1.75 | 3.5 | 8.0 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS303015 | 1   | 3.15            | 3.15 | 1.60 | 1.55 | 1.75 | 3.5 | 8.0 | 4  | 4  | 2  | 180             | 60  | 13 | 14.4 | 8.4 | 2000                   |
| LVS404012 | 2   | 4.25            | 4.25 | 1.30 | 1.55 | 1.75 | 5.5 | 12  | 8  | 4  | 2  | 180             | 60  | 13 | 13.2 | -   | 1000                   |
| LVS404018 | 2   | 4.25            | 4.25 | 2.10 | 1.55 | 1.75 | 5.5 | 12  | 8  | 4  | 2  | 180             | 60  | 13 | 13.2 | -   | 800                    |
| LVS404026 | 2   | 4.25            | 4.25 | 3.00 | 1.55 | 1.75 | 5.5 | 12  | 8  | 4  | 2  | 180             | 60  | 13 | 13.2 | -   | 500                    |
| LVS505020 | 2   | 5.25            | 5.25 | 2.20 | 1.55 | 1.75 | 5.5 | 12  | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | -   | 2000                   |
| LVS505040 | 2   | 5.20            | 5.20 | 4.20 | 1.55 | 1.75 | 5.5 | 12  | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | -   | 1500                   |
| LVS606020 | 2   | 6.25            | 6.25 | 2.20 | 1.55 | 1.75 | 7.5 | 16  | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | -   | 2000                   |
| LVS606028 | 2   | 6.25            | 6.25 | 3.00 | 1.55 | 1.75 | 7.5 | 16  | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | -   | 1500                   |
| LVS606045 | 2   | 6.25            | 6.25 | 4.65 | 1.55 | 1.75 | 7.5 | 16  | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | -   | 1000                   |
| LVS808040 | 2   | 8.25            | 8.25 | 4.15 | 1.55 | 1.75 | 7.5 | 16  | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | -   | 1000                   |