

Power Inductor AWVF Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant

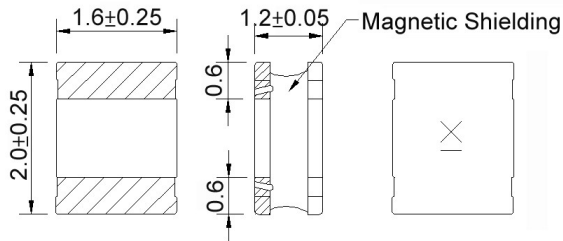


- Power Circuit
- Shield
- Magnetic Resin LVx
- Ferrite
- High Current

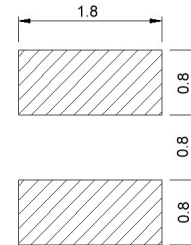
Part Numbering

| A | WVF | 00 | 404018 | 1R0 | M | 00 | |
|-------|-------------|--------------|----------------------|-----------------|-----------|------|---------------|
| Grade | Series Name | Control Code | Dimensions Code (mm) | Inductance (uH) | Tolerance | | Internal Code |
| | | | 201612 2.0x1.6x1.2 | R47 0.47 | M | ±20% | |
| | | | 252010 2.5x2.0x1.02 | 1R0 1.0 | T | ±30% | |
| | | | 252012 2.5x2.0x1.2 | 101 100 | | | |
| | | | 303010 3.0x3.0x1.02 | | | | |
| | | | 303012 3.0x3.0x1.2 | | | | |
| | | | 303015 3.0x3.0x1.5 | | | | |
| | | | 404012 4.0x4.0x1.02 | | | | |
| | | | 404015 4.0x4.0x1.5 | | | | |
| | | | 404018 4.0x4.0x1.9 | | | | |
| | | | 404026 4.0x4.0x2.6 | | | | |
| | | | 505020 5.0x5.0x2.0 | | | | |
| | | | 606020 6.0x6.0x2.0 | | | | |
| | | | 606028 6.0x6.0x2.8 | | | | |
| | | | 808040 8.0x8.0x4.0 | | | | |

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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

AWVF00201612 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00201612R47□00 | 0.47 | 1MHz,200mV | 0.051 | 2.70(2.40) | 2.30(2.00) | 20,30 | A |
| AWVF00201612R68□00 | 0.68 | 1MHz,200mV | 0.074 | 2.20(1.90) | 2.00(1.80) | 20,30 | L |
| AWVF002016121R5□00 | 1.5 | 1MHz,200mV | 0.130 | 1.60(1.40) | 1.40(1.30) | 20,30 | D |
| AWVF002016126R8□00 | 6.8 | 1MHz,200mV | 0.465 | 0.82(0.73) | 0.78(0.70) | 20,30 | H |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

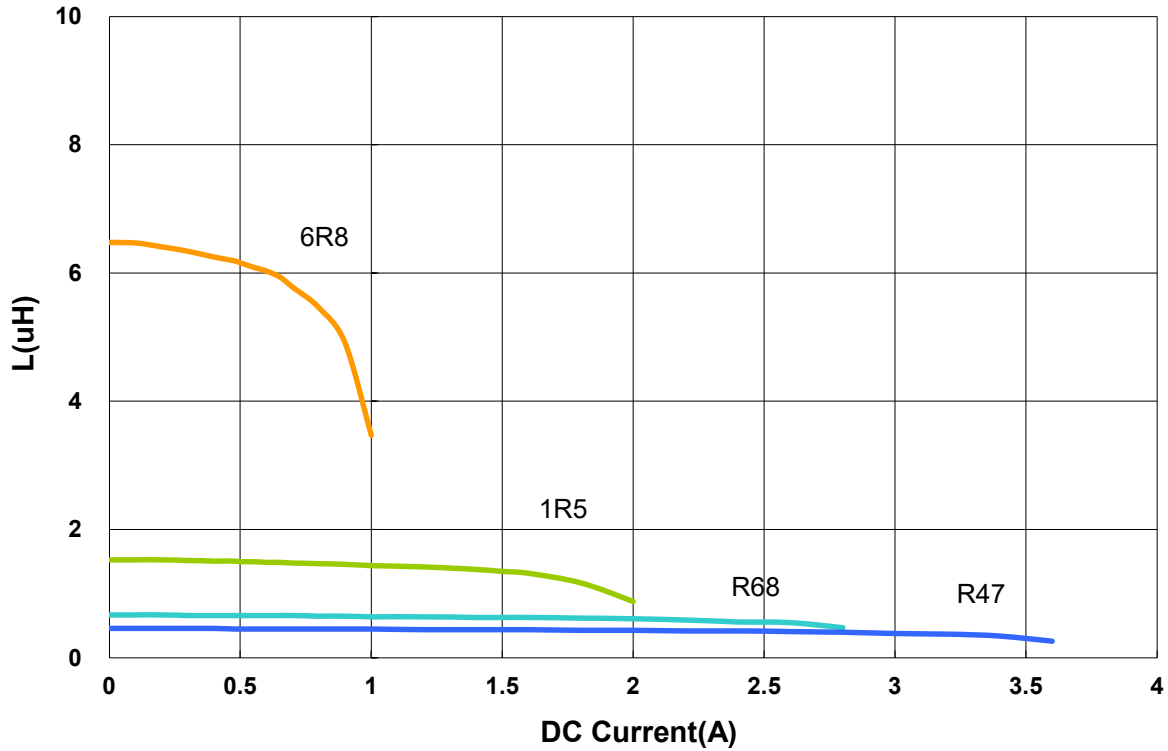
Isat: Agilent HP4284A

Irms: Agilent HP4284A

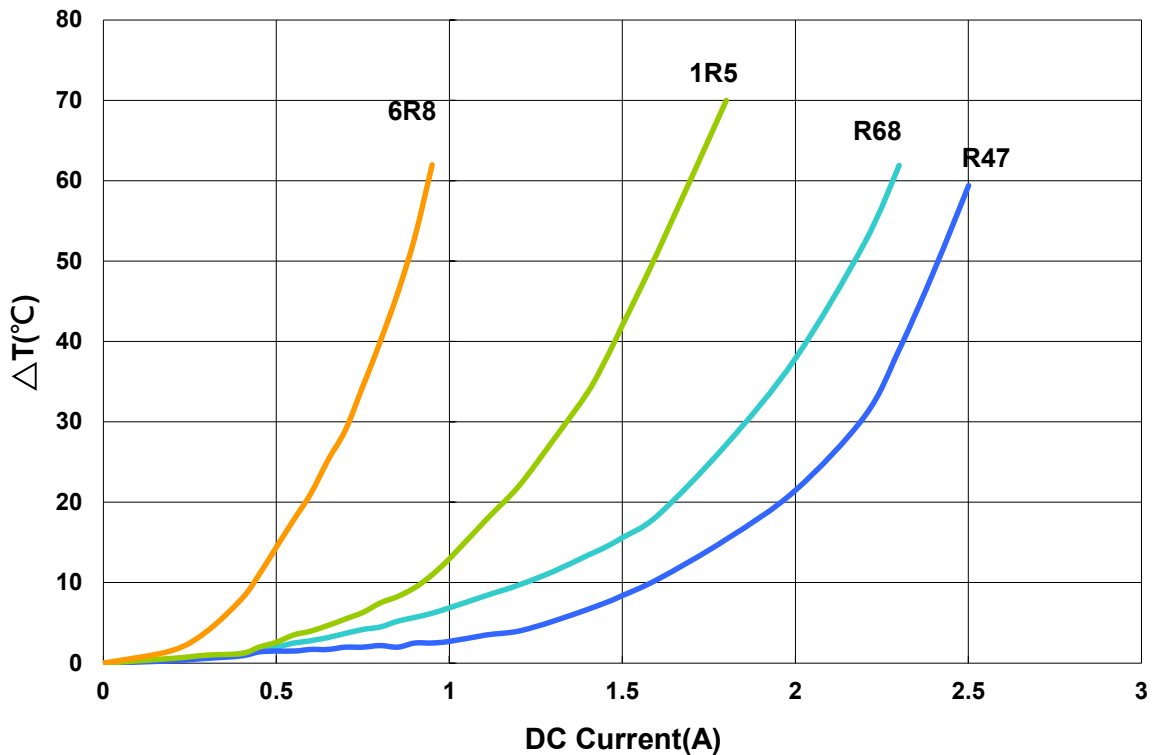
AWVF00201612 Type

Characteristics Graph

Inductance vs. DC Current



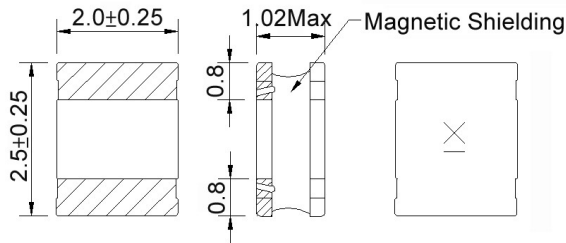
Temperature Change vs. DC Current



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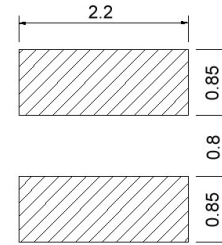
AWVF00252010 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00252010R47□00 | 0.47 | 1MHz,200mV | 0.045 | 2.80(2.50) | 2.30(2.00) | 20,30 | A |
| AWVF002520101R0□00 | 1.0 | 1MHz,200mV | 0.066 | 1.90(1.70) | 2.00(1.80) | 20,30 | B |
| AWVF002520101R5□00 | 1.5 | 1MHz,200mV | 0.095 | 1.70(1.50) | 1.80(1.60) | 20,30 | C |
| AWVF002520104R7□00 | 4.7 | 1MHz,200mV | 0.285 | 0.92(0.82) | 0.95(0.85) | 20,30 | F |
| AWVF00252010100□00 | 10 | 1MHz,200mV | 0.535 | 0.60(0.54) | 0.70(0.63) | 20,30 | H |
| AWVF00252010150□00 | 15 | 1MHz,200mV | 0.810 | 0.50(0.45) | 0.55(0.49) | 20,30 | I |
| AWVF00252010220□00 | 22 | 1MHz,200mV | 1.200 | 0.40(0.36) | 0.44(0.39) | 20,30 | J |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

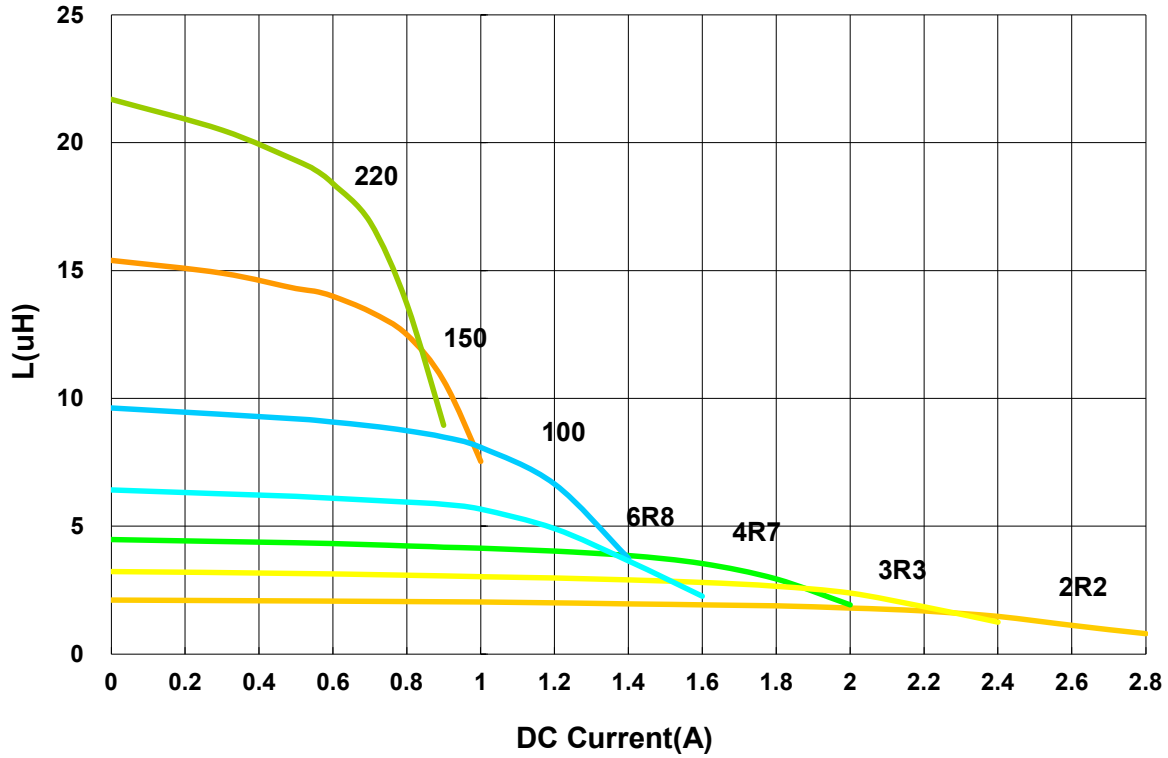
Isat: Agilent HP4284A

I rms: Agilent HP4284A

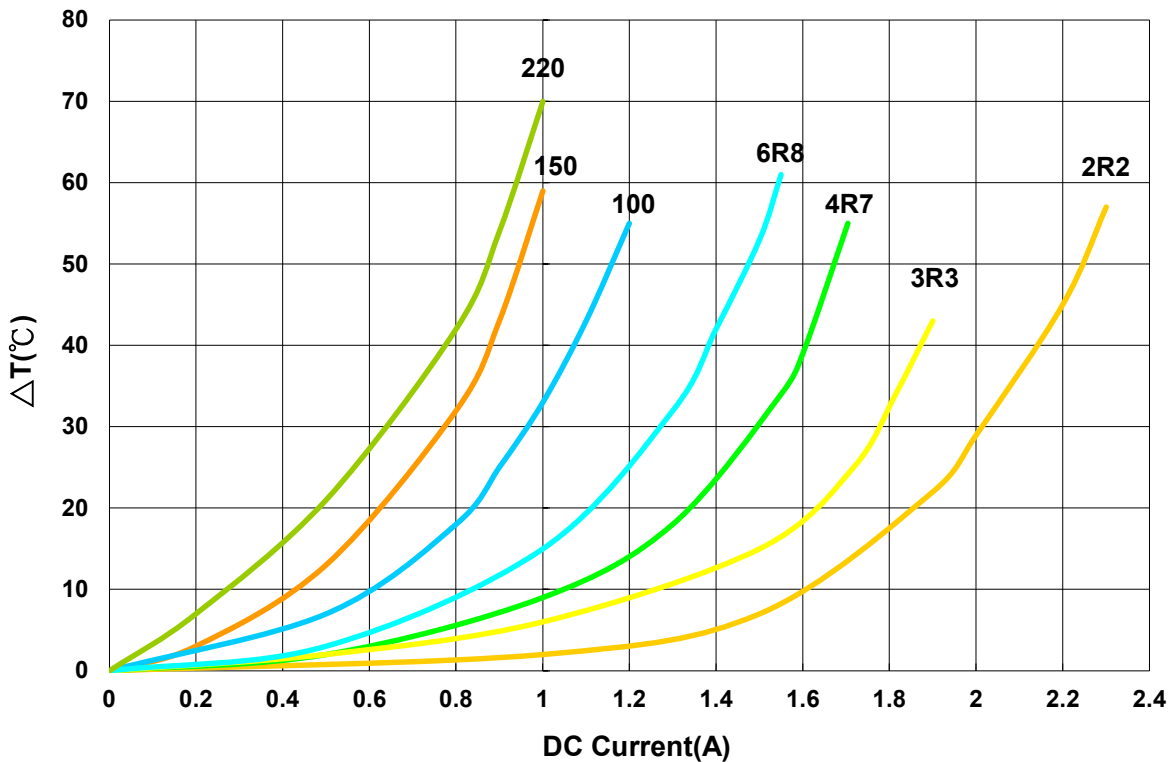
AWVF00252010 Type

Characteristics Graph

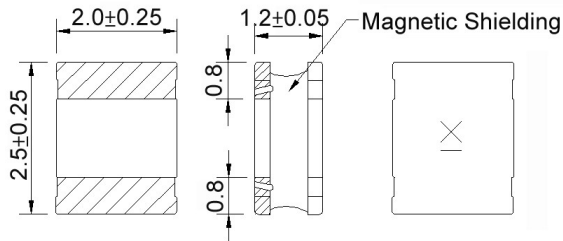
Inductance vs. DC Current



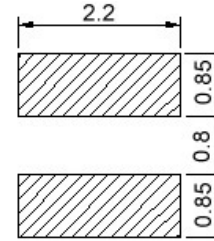
Temperature Change vs. DC Current



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AWVF00252012 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00252012R50□00 | 0.5 | 1MHz,200mV | 0.028 | 3.50(3.10) | 3.00(2.70) | 20,30 | B |
| AWVF002520121R0□00 | 1.0 | 1MHz,200mV | 0.050 | 2.50(2.20) | 2.40(2.10) | 20,30 | C |
| AWVF002520121R2□00 | 1.2 | 1MHz,200mV | 0.053 | 2.10(1.80) | 2.35(2.10) | 20,30 | D |
| AWVF002520121R5□00 | 1.5 | 1MHz,200mV | 0.068 | 1.95(1.70) | 2.30(2.00) | 20,30 | E |
| AWVF002520122R2□00 | 2.2 | 1MHz,200mV | 0.080 | 1.80(1.60) | 1.80(1.60) | 20,30 | F |
| AWVF002520123R3□00 | 3.3 | 1MHz,200mV | 0.130 | 1.45(1.20) | 1.50(1.30) | 20,30 | G |
| AWVF002520124R7□00 | 4.7 | 1MHz,200mV | 0.190 | 1.10(0.98) | 1.10(0.98) | 20,30 | H |
| AWVF002520125R6□00 | 5.6 | 1MHz,200mV | 0.210 | 1.05(0.93) | 1.00(0.89) | 20,30 | I |
| AWVF002520126R8□00 | 6.8 | 1MHz,200mV | 0.300 | 0.95(0.84) | 0.80(0.71) | 20,30 | J |
| AWVF00252012100□00 | 10 | 1MHz,200mV | 0.385 | 0.88(0.78) | 0.70(0.62) | 20,30 | K |
| AWVF00252012150□00 | 15 | 1MHz,200mV | 0.570 | 0.68(0.60) | 0.62(0.54) | 20,30 | L |
| AWVF00252012220□00 | 22 | 1MHz,200mV | 0.810 | 0.55(0.48) | 0.53(0.46) | 20,30 | M |

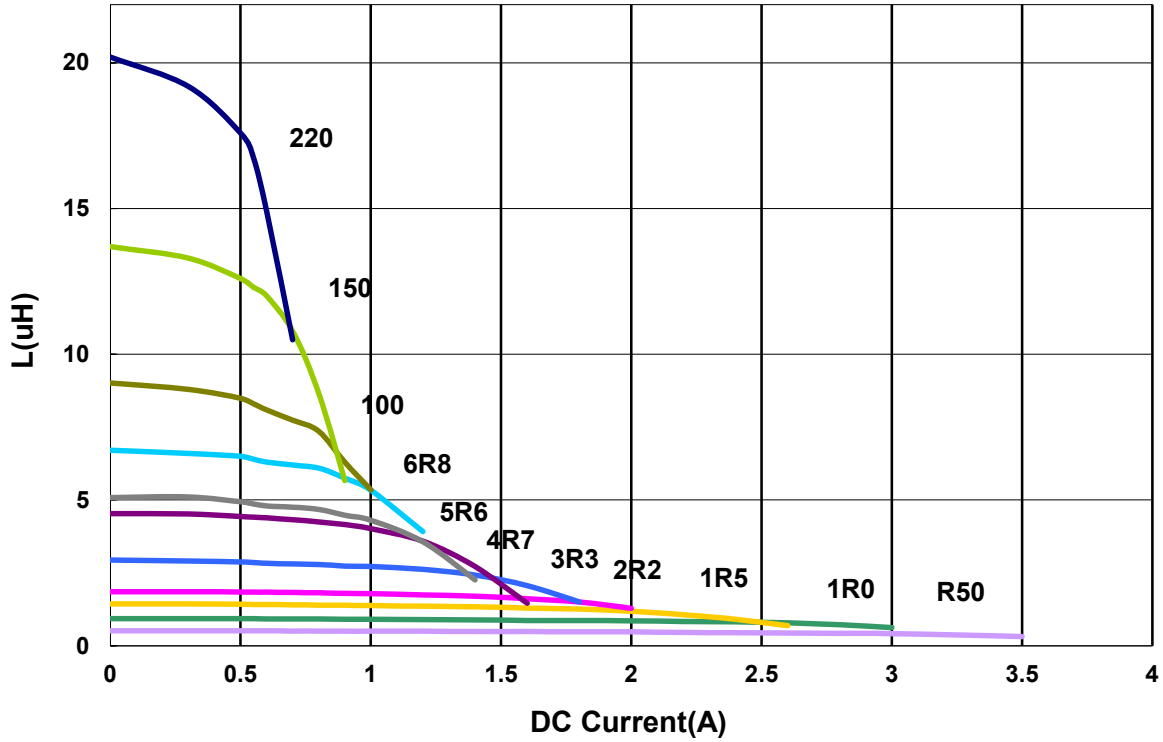
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient.
4. Measure Equipment:
 L: HP4285A+HP42841A
 RDC: Digital Milliohm Meter Chroma 16502, or equivalent
 Isat: Agilent/HP4284A
 I rms: Agilent/HP4284A

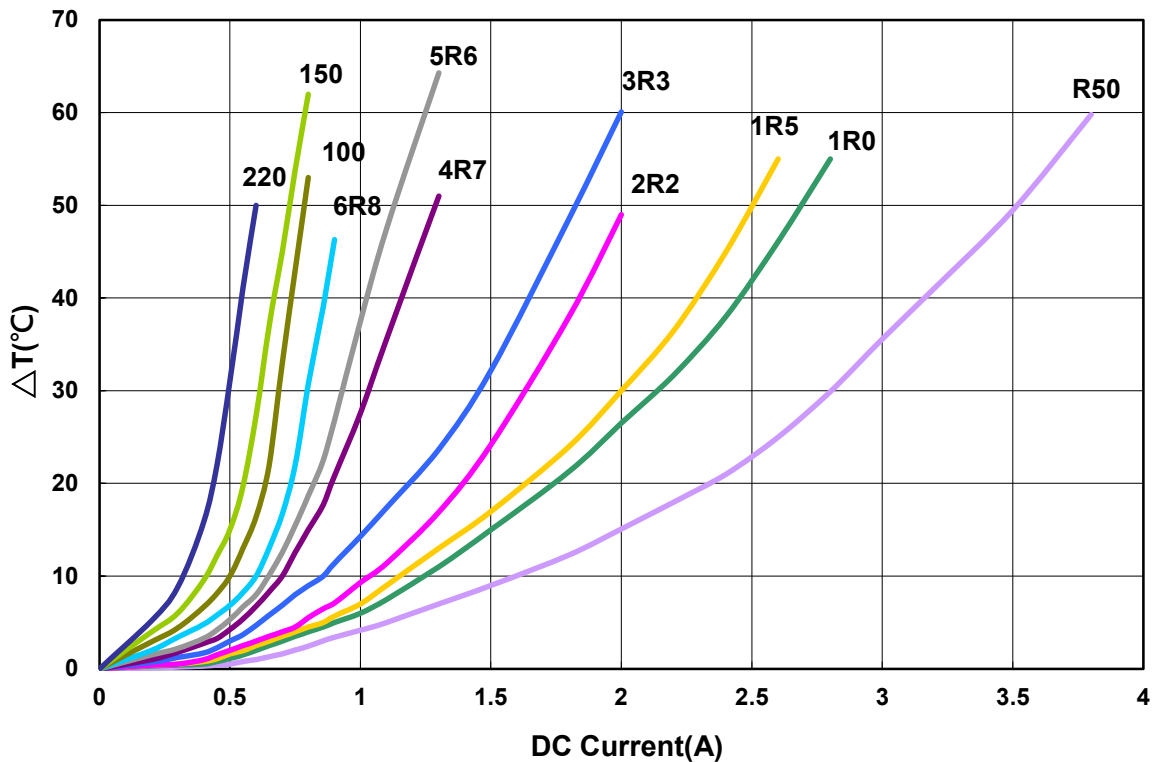
AWVF00252012 Type

Characteristics Graph

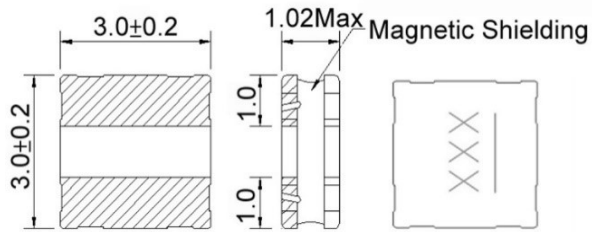
Inductance vs. DC Current



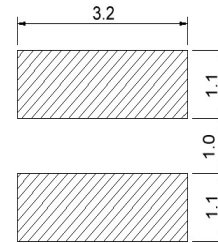
Temperature Change vs. DC Current



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AWVF00303010 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF003030101R5□00 | 1.5 | 1MHz,200mV | 0.085 | 1.80(1.60) | 1.70(1.50) | 20,30 | 1R5 |
| AWVF003030102R2□00 | 2.2 | 1MHz,200mV | 0.100 | 1.50(1.30) | 1.40(1.20) | 20,30 | 2R2 |
| AWVF003030104R7□00 | 4.7 | 1MHz,200mV | 0.205 | 1.00(0.90) | 0.95(0.85) | 20,30 | 4R7 |
| AWVF003030106R8□00 | 6.8 | 1MHz,200mV | 0.310 | 0.87(0.78) | 0.85(0.76) | 20,30 | 6R8 |
| AWVF00303010100□00 | 10 | 1MHz,200mV | 0.430 | 0.64(0.57) | 0.63(0.56) | 20,30 | 100 |
| AWVF00303010150□00 | 15 | 1MHz,200mV | 0.625 | 0.56(0.50) | 0.55(0.49) | 20,30 | 150 |
| AWVF00303010220□00 | 22 | 1MHz,200mV | 0.870 | 0.47(0.42) | 0.46(0.41) | 20,30 | 220 |
| AWVF00303010470□00 | 47 | 1MHz,200mV | 1.750 | 0.29(0.26) | 0.28(0.25) | 20,30 | 470 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. I rms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

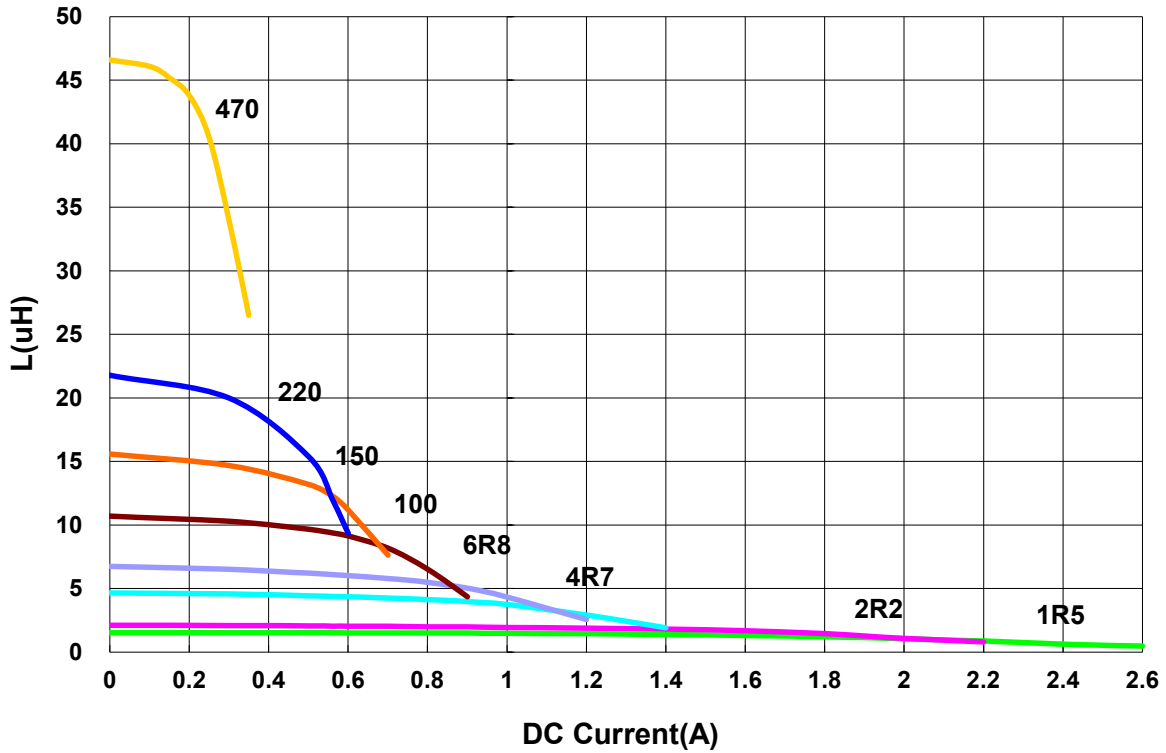
Isat: Agilent HP4284A

I rms: Agilent HP4284A

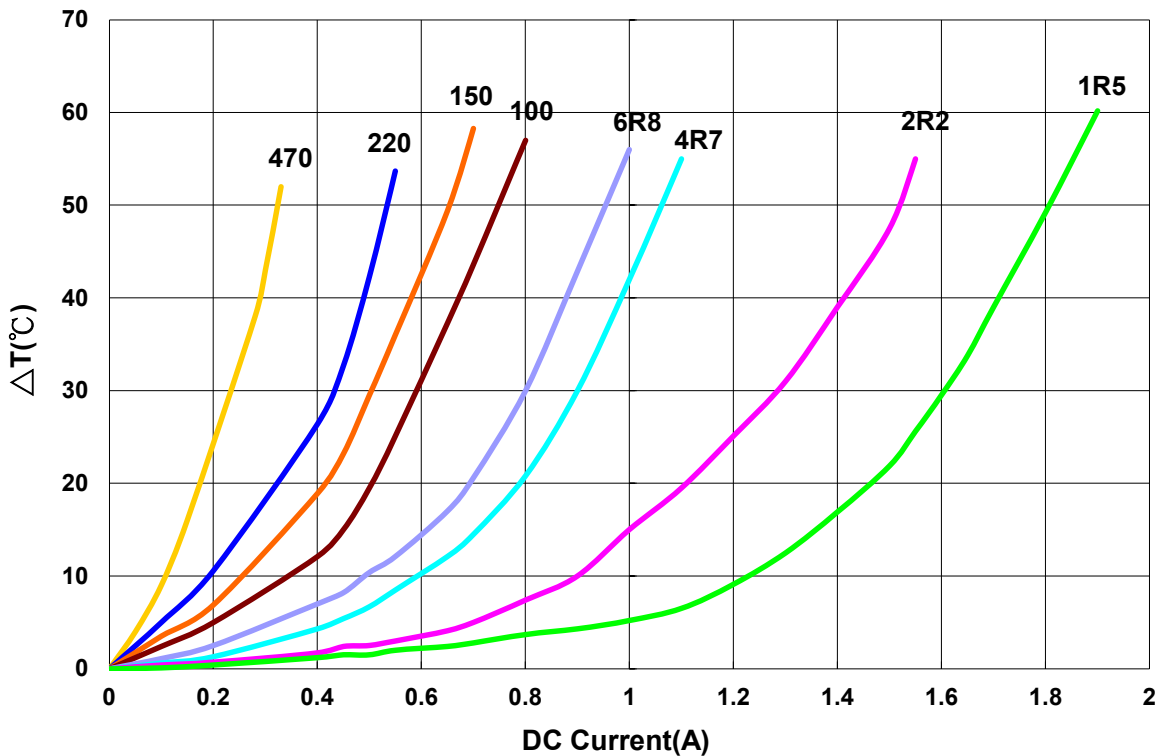
AWVF00303010 Type

Characteristics Graph

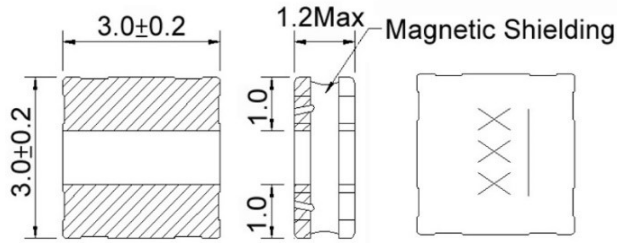
Inductance vs. DC Current



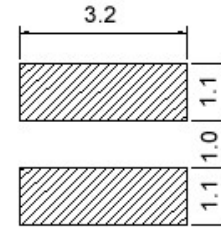
Temperature Change vs. DC Current



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AWVF00303012 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF003030122R2□00 | 2.2 | 1MHz,200mV | 0.092 | 2.10(1.80) | 2.00(1.80) | 20,30 | 2R2 |
| AWVF003030123R3□00 | 3.3 | 1MHz,200mV | 0.130 | 1.84(1.60) | 1.80(1.60) | 20,30 | 3R3 |
| AWVF003030124R7□00 | 4.7 | 1MHz,200mV | 0.180 | 1.56(1.40) | 1.52(1.30) | 20,30 | 4R7 |
| AWVF003030126R8□00 | 6.8 | 1MHz,200mV | 0.250 | 1.32(1.10) | 1.30(1.10) | 20,30 | 6R8 |
| AWVF00303012100□00 | 10 | 1MHz,200mV | 0.420 | 1.06(0.95) | 1.00(0.90) | 20,30 | 100 |
| AWVF00303012150□00 | 15 | 1MHz,200mV | 0.560 | 0.82(0.73) | 0.80(0.72) | 20,30 | 150 |
| AWVF00303012220□00 | 22 | 1MHz,200mV | 0.860 | 0.64(0.57) | 0.62(0.55) | 20,30 | 220 |
| AWVF00303012470□00 | 47 | 1MHz,200mV | 1.820 | 0.49(0.44) | 0.43(0.38) | 20,30 | 470 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. I rms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

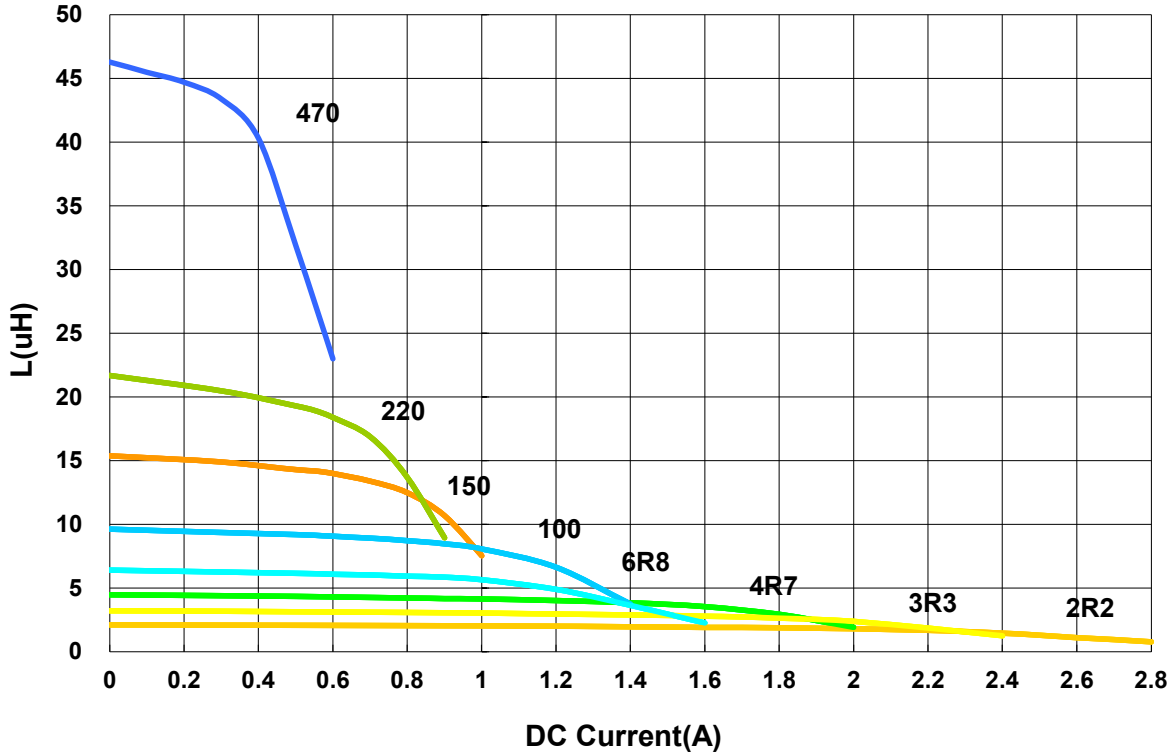
Isat: Agilent HP4284A

I rms: Agilent HP4284A

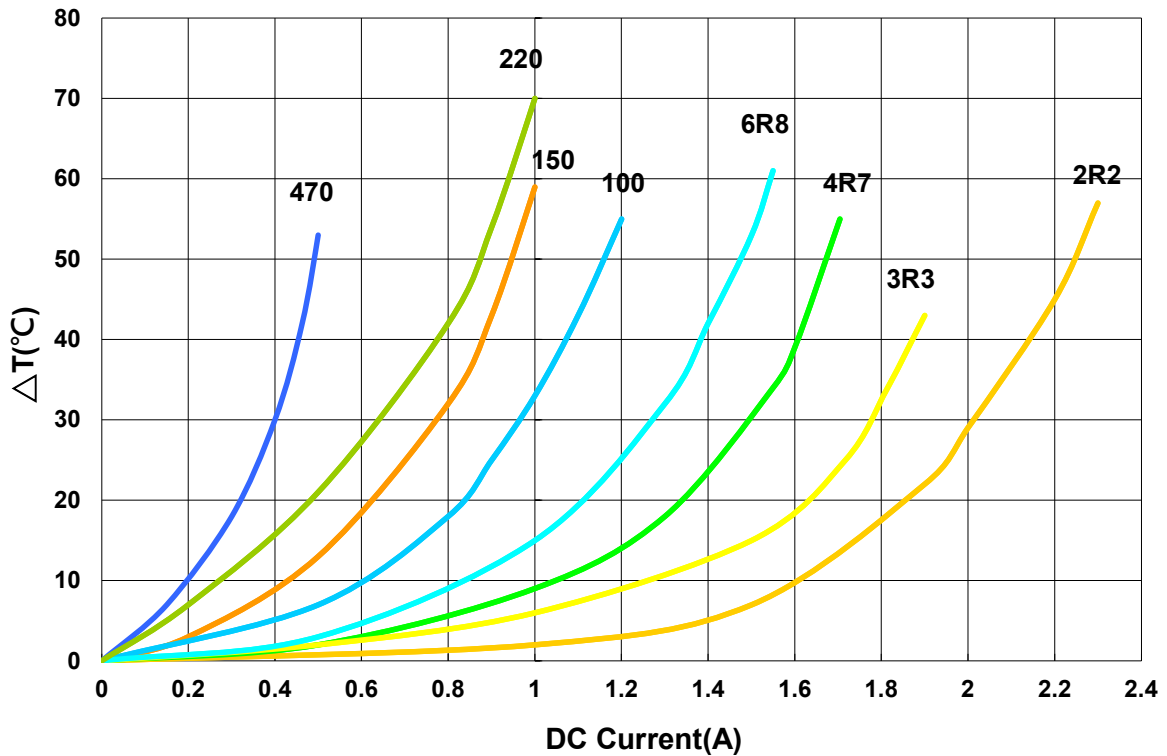
AWVF00303012 Type

Characteristics Graph

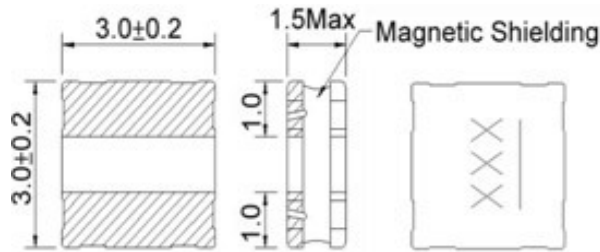
Inductance vs. DC Current



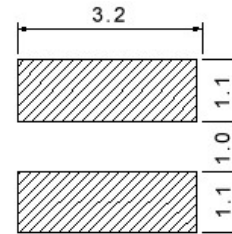
Temperature Change vs. DC Current



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AWVF00303015 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00303015R47□00 | 0.47 | 1MHz,200mV | 0.036 | 4.70(4.20) | 4.00(3.60) | 20,30 | R47 |
| AWVF003030151R0□00 | 1.0 | 1MHz,200mV | 0.054 | 3.40(3.00) | 3.00(2.70) | 20,30 | 1R0 |
| AWVF003030151R5□00 | 1.5 | 1MHz,200mV | 0.063 | 3.00(2.70) | 2.60(2.30) | 20,30 | 1R5 |
| AWVF003030152R2□00 | 2.2 | 1MHz,200mV | 0.09 | 2.30(2.00) | 2.00(1.80) | 20,30 | 2R2 |
| AWVF003030153R3□00 | 3.3 | 1MHz,200mV | 0.125 | 1.90(1.70) | 1.80(1.60) | 20,30 | 3R3 |
| AWVF003030154R7□00 | 4.7 | 1MHz,200mV | 0.17 | 1.58(1.40) | 1.52(1.30) | 20,30 | 4R7 |
| AWVF003030156R8□00 | 6.8 | 1MHz,200mV | 0.235 | 1.34(1.20) | 1.30(1.10) | 20,30 | 6R8 |
| AWVF00303015100□00 | 10 | 1MHz,200mV | 0.36 | 1.06(0.95) | 1.00(0.90) | 20,30 | 100 |
| AWVF00303015150□00 | 15 | 1MHz,200mV | 0.55 | 0.90(0.81) | 0.8(0.72) | 20,30 | 150 |
| AWVF00303015220□00 | 22 | 1MHz,200mV | 0.77 | 0.76(0.68) | 0.65(0.58) | 20,30 | 220 |
| AWVF00303015330□00 | 33 | 1MHz,200mV | 0.93 | 0.65(0.58) | 0.6(0.54) | 20,30 | 330 |
| AWVF00303015470□00 | 47 | 1MHz,200mV | 1.5 | 0.52(0.46) | 0.42(0.37) | 20,30 | 470 |
| AWVF00303015101□00 | 100 | 1MHz,200mV | 2.7 | 0.36(0.32) | 0.30(0.27) | 20,30 | 101 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

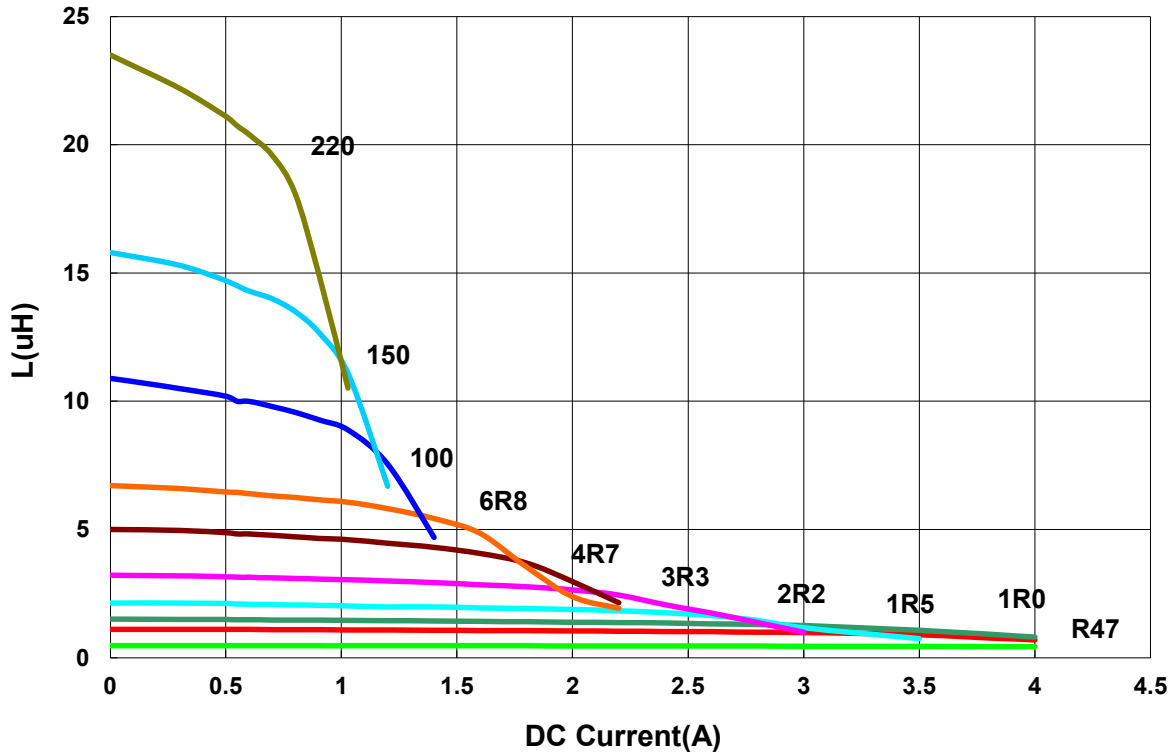
Isat: Agilent HP4284A

I rms: Agilent HP4284A

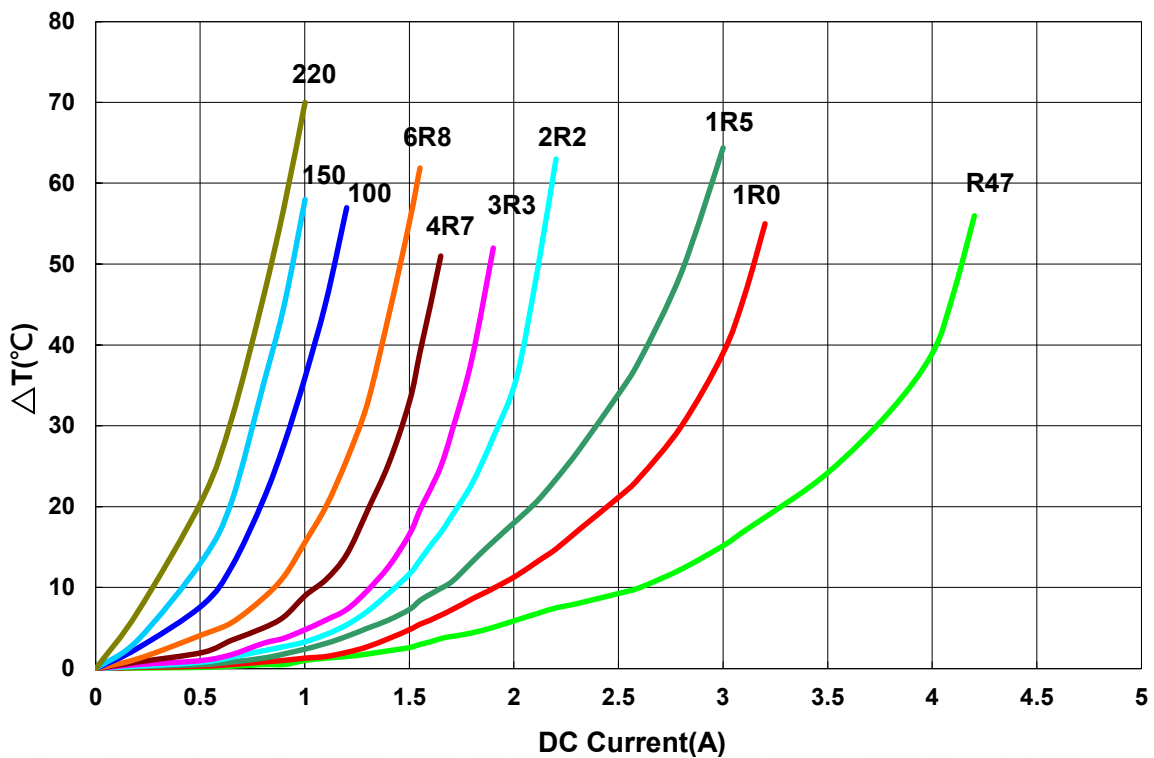
AWVF00303015 Type

Characteristics Graph

Inductance vs. DC Current



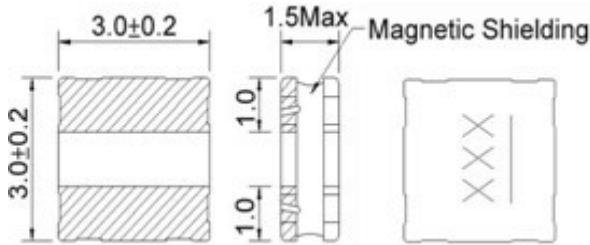
Temperature Change vs. DC Current



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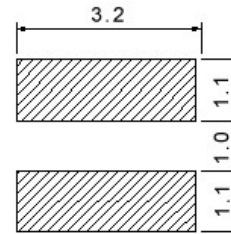
AWVF00303015-L1 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00303015R24□L1 | 0.24 | 1MHz,200mV | 0.023 | 6.0(5.4) | 4.3(3.8) | 20,30 | R24 |
| AWVF00303015R47□L1 | 0.5 | 1MHz,200mV | 0.03 | 4.3(3.9) | 3.7(3.3) | 20,30 | R47 |
| AWVF00303015R68□L1 | 0.68 | 1MHz,200mV | 0.036 | 3.8(3.4) | 3.3(2.9) | 20,30 | R68 |
| AWVF003030151R0□L1 | 1 | 1MHz,200mV | 0.038 | 2.7(2.4) | 3.2(2.9) | 20,30 | 1R0 |
| AWVF003030152R2□L1 | 2.2 | 1MHz,200mV | 0.06 | 2.0(1.8) | 2.8(2.5) | 20,30 | 2R2 |
| AWVF003030153R3□L1 | 3.3 | 1MHz,200mV | 0.095 | 1.8(1.6) | 2.0(1.8) | 20,30 | 3R3 |
| AWVF003030154R7□L1 | 4.7 | 1MHz,200mV | 0.12 | 1.5(1.3) | 1.7(1.5) | 20,30 | 4R7 |
| AWVF003030156R8□L1 | 6.8 | 1MHz,200mV | 0.16 | 1.2(1.0) | 1.4(1.2) | 20,30 | 6R8 |
| AWVF00303015100□L1 | 10 | 1MHz,200mV | 0.22 | 1.0(0.9) | 1.1(0.99) | 20,30 | 100 |
| AWVF00303015150□L1 | 15 | 1MHz,200mV | 0.36 | 0.80(0.72) | 0.95(0.85) | 20,30 | 150 |
| AWVF00303015220□L1 | 22 | 1MHz,200mV | 0.5 | 0.68(0.61) | 0.80(0.72) | 20,30 | 220 |
| AWVF00303015330□L1 | 33 | 1MHz,200mV | 0.7 | 0.55(0.49) | 0.67(0.60) | 20,30 | 330 |
| AWVF00303015470□L1 | 47 | 1MHz,200mV | 1 | 0.45(0.40) | 0.56(0.50) | 20,30 | 470 |
| AWVF00303015560□L1 | 56 | 1MHz,200mV | 1.1 | 0.40(0.36) | 0.54(0.48) | 20,30 | 560 |
| AWVF00303015680□L1 | 68 | 1MHz,200mV | 1.4 | 0.37(0.33) | 0.52(0.46) | 20,30 | 680 |
| AWVF00303015101□L1 | 100 | 1MHz,200mV | 1.7 | 0.30(0.27) | 0.45(0.40) | 20,30 | 101 |
| AWVF00303015151□L1 | 150 | 1MHz,200mV | 3.2 | 0.22(0.19) | 0.30(0.27) | 20,30 | 151 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. I rms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

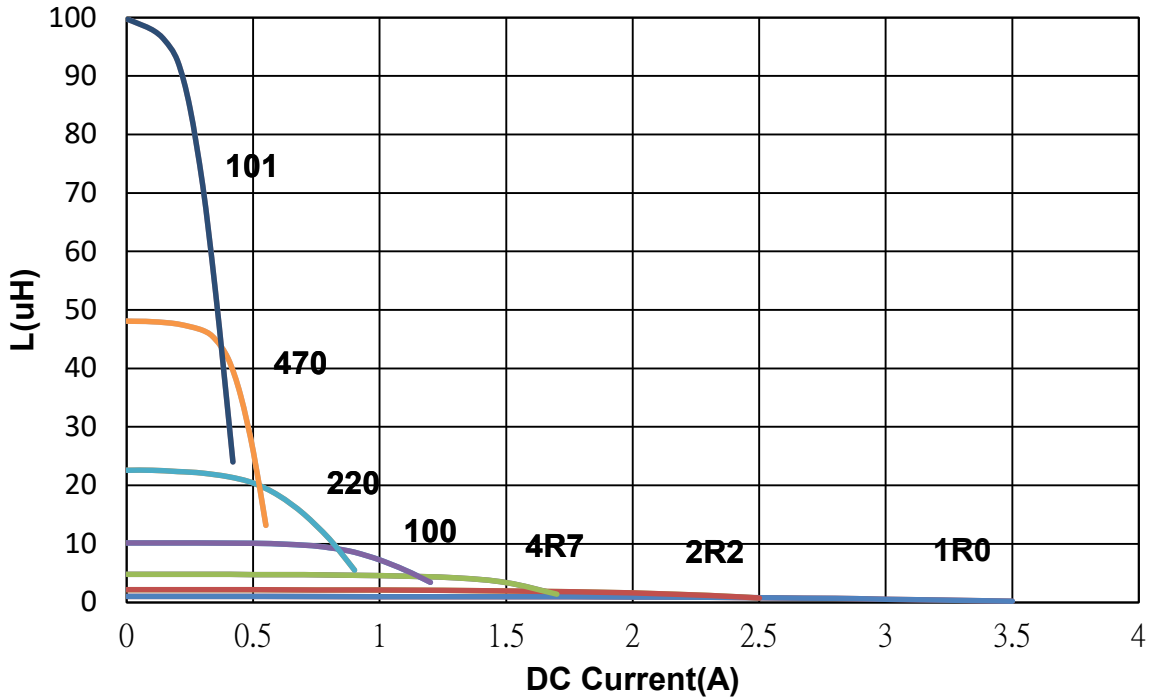
Isat: HP 4285A+HP 42841A

I rms: HP 4285A+HP 42841A

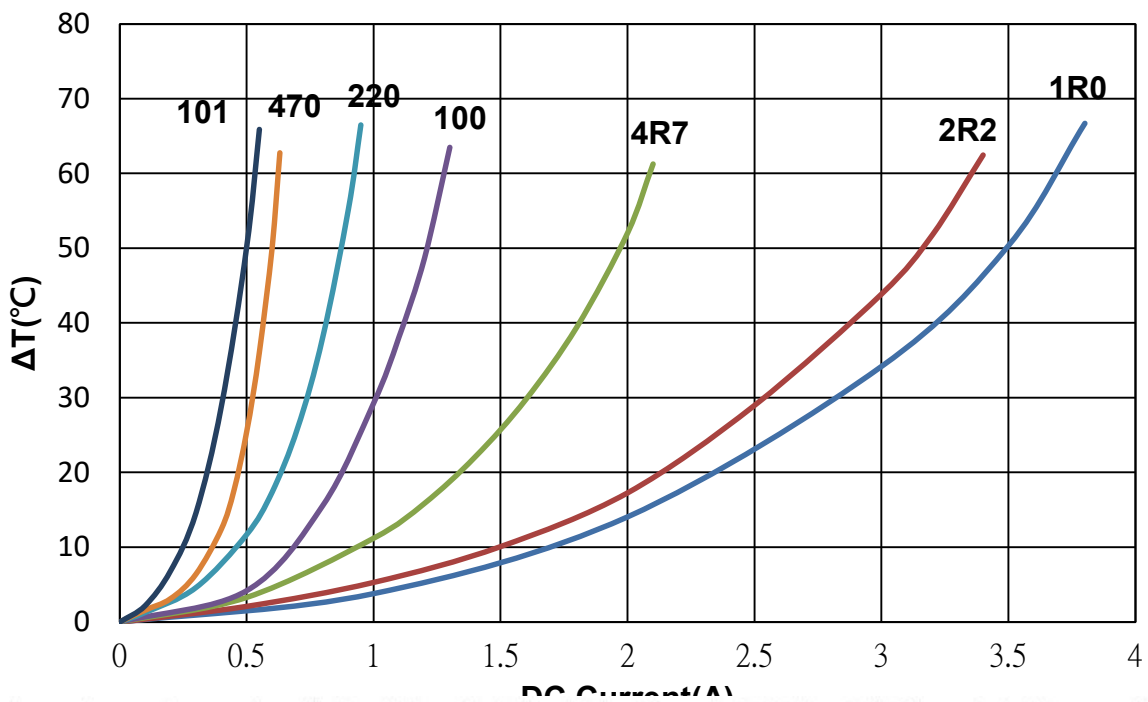
AWVF00303015-L1 Type

Characteristics Graph

Inductance vs. DC Current



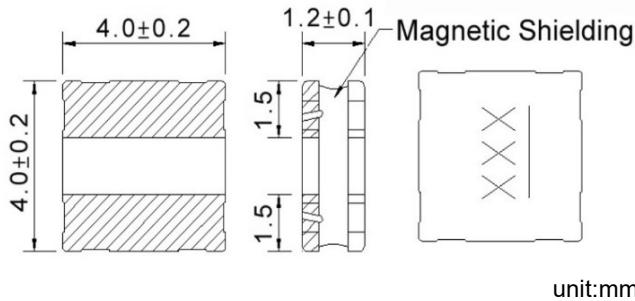
Temperature Change vs. DC Current



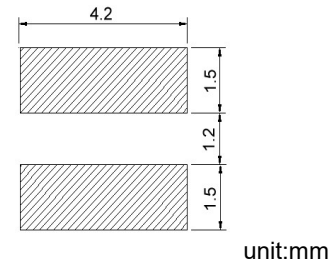
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

AWVF00404012 Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω) $\pm 30\%$ | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance ($\pm\%$) | Marking |
|--------------------|-----------------|------------|-----------------------------|-------------------|-------------------|-----------------------|---------|
| AWVF004040123R3□00 | 3.3 | 1MHz,200mV | 0.072 | 1.5(1.30) | 2.1(1.80) | 20,30 | 3R3 |
| AWVF00404012100□00 | 10 | 1MHz,200mV | 0.190 | 0.9(0.81) | 1.2(1.00) | 20,30 | 100 |

Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$ / T= $\pm 30\%$

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. I rms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

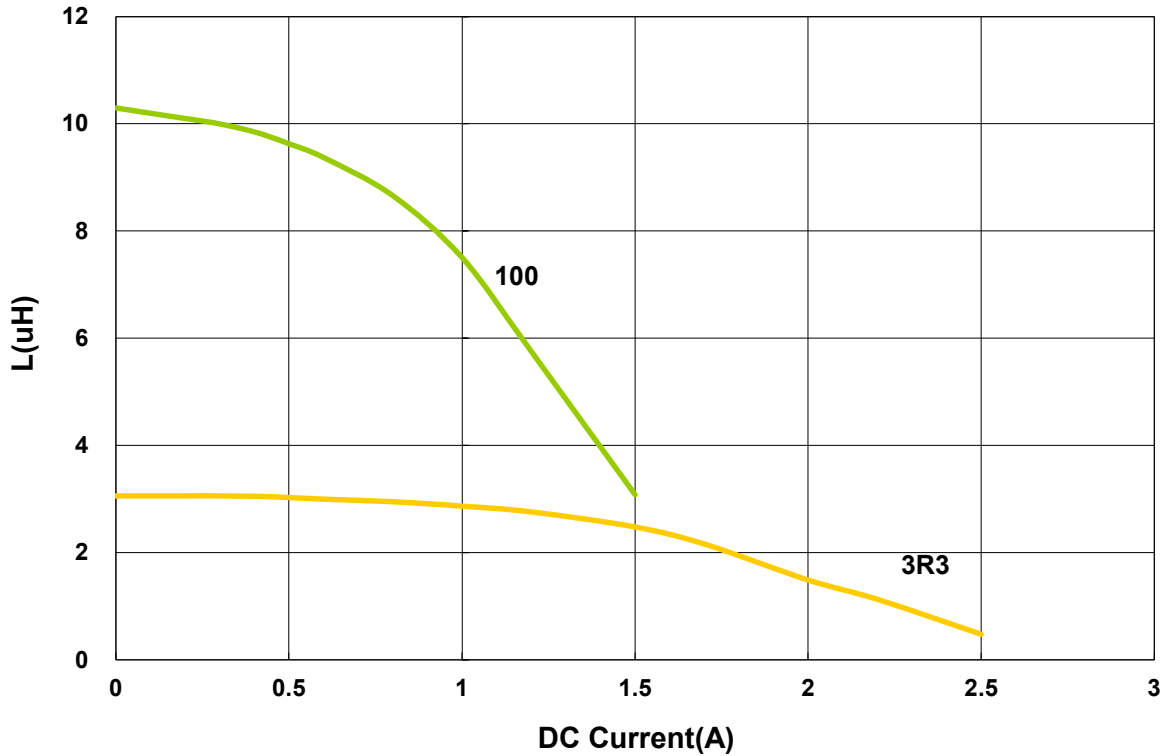
Isat: Agilent HP4284A

I rms: Agilent HP4284A

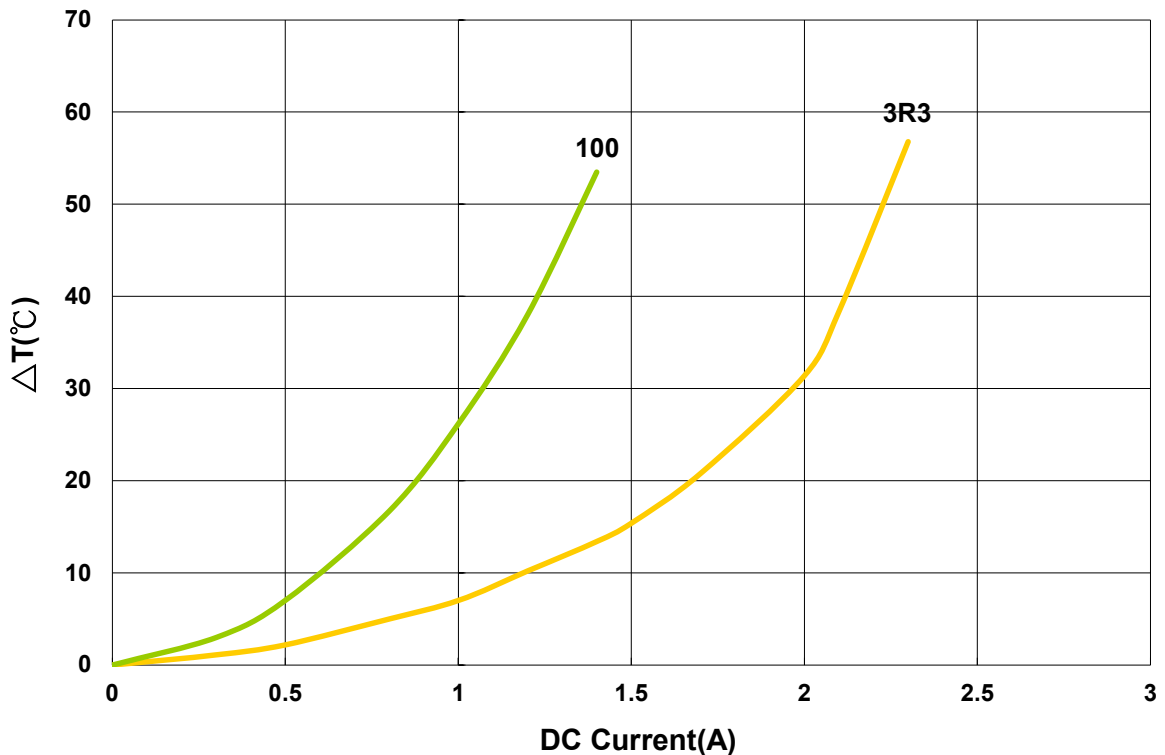
AWVF00404012 Type

Characteristics Graph

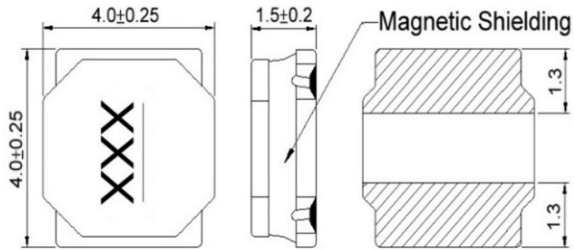
Inductance vs. DC Current



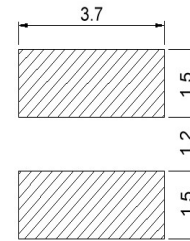
Temperature Change vs. DC Current



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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

AWVF00404015 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF00404015R47□00 | 0.47 | 1MHz,200mV | 0.019 | 4.00(3.60) | 4.2(3.70) | 20,30 | R47 |
| AWVF004040151R5□00 | 1.5 | 1MHz,200mV | 0.041 | 3.00(2.70) | 3.2(2.80) | 20,30 | 1R5 |
| AWVF004040152R2□00 | 2.2 | 1MHz,200mV | 0.054 | 2.30(2.00) | 2.6(2.30) | 20,30 | 2R2 |
| AWVF004040154R7□00 | 4.7 | 1MHz,200mV | 0.100 | 1.60(1.40) | 1.8(1.60) | 20,30 | 4R7 |
| AWVF004040156R8□00 | 6.8 | 1MHz,200mV | 0.138 | 1.40(1.20) | 1.6(1.40) | 20,30 | 6R8 |
| AWVF00404015100□00 | 10 | 1MHz,200mV | 0.200 | 1.00(0.90) | 1.2(1.00) | 20,30 | 100 |
| AWVF00404015150□00 | 15 | 1MHz,200mV | 0.300 | 0.92(0.82) | 1.0(0.94) | 20,30 | 150 |
| AWVF00404015220□00 | 22 | 1MHz,200mV | 0.400 | 0.72(0.64) | 0.85(0.76) | 20,30 | 220 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. I rms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

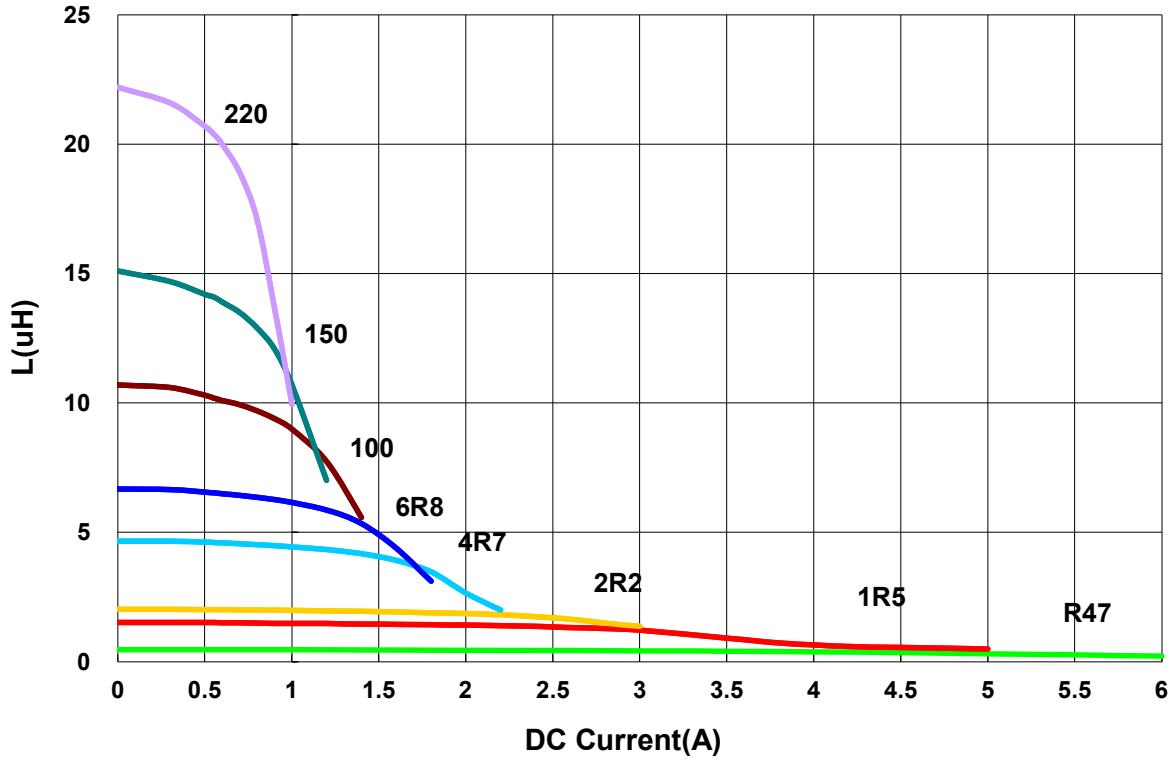
Isat: Agilent HP4284A

I rms: Agilent HP4284A

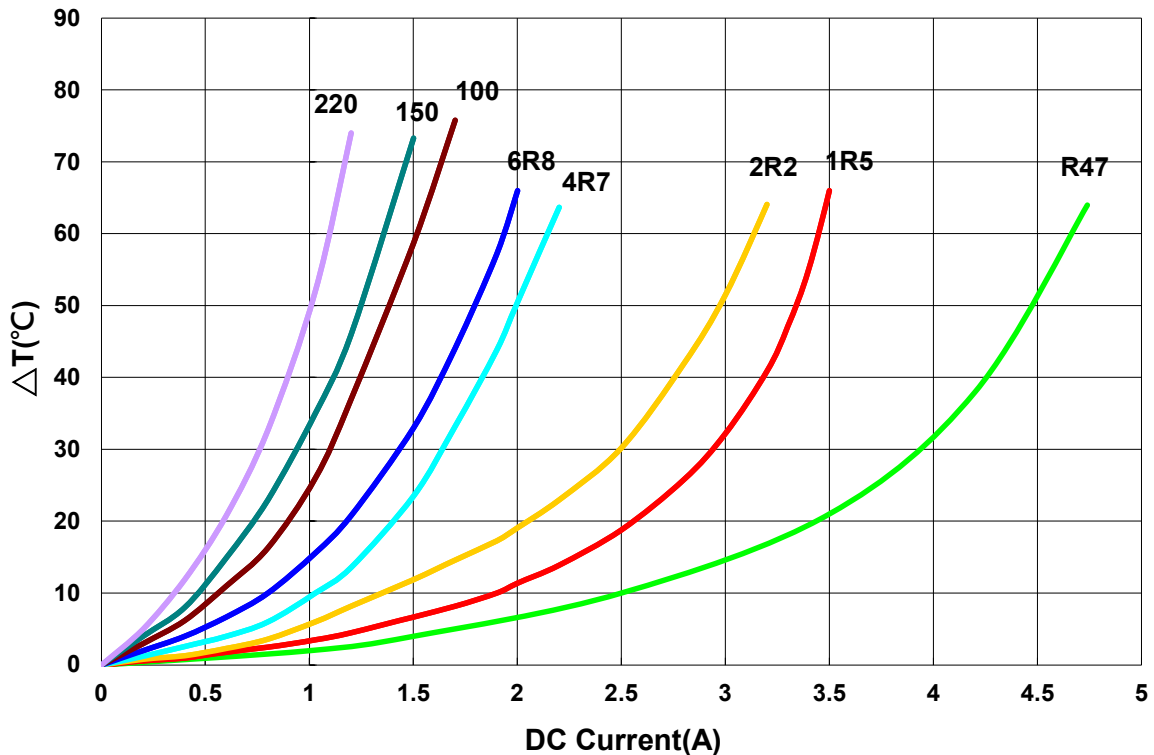
AWVF00404015 Type

Characteristics Graph

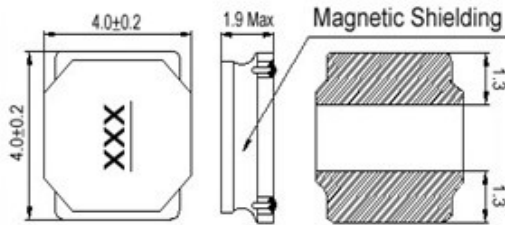
Inductance vs. DC Current



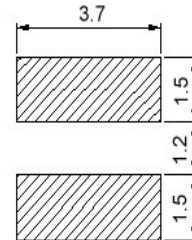
Temperature Change vs. DC Current



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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

AWVF00404018 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF004040181R0□00 | 1.0 | 100kHz,1V | 0.0265 | 4.20(3.70) | 3.80(3.40) | 20,30 | 1R0 |
| AWVF004040181R5□00 | 1.5 | 100kHz,1V | 0.0370 | 3.50(3.10) | 3.20(2.80) | 20,30 | 1R5 |
| AWVF004040182R2□00 | 2.2 | 100kHz,1V | 0.0470 | 3.00(2.70) | 2.70(2.40) | 20,30 | 2R2 |
| AWVF004040183R3□00 | 3.3 | 100kHz,1V | 0.0625 | 2.30(2.00) | 2.10(1.80) | 20,30 | 3R3 |
| AWVF00404018220□00 | 22 | 100kHz,1V | 0.335 | 0.90(0.81) | 0.88(0.79) | 20,30 | 220 |

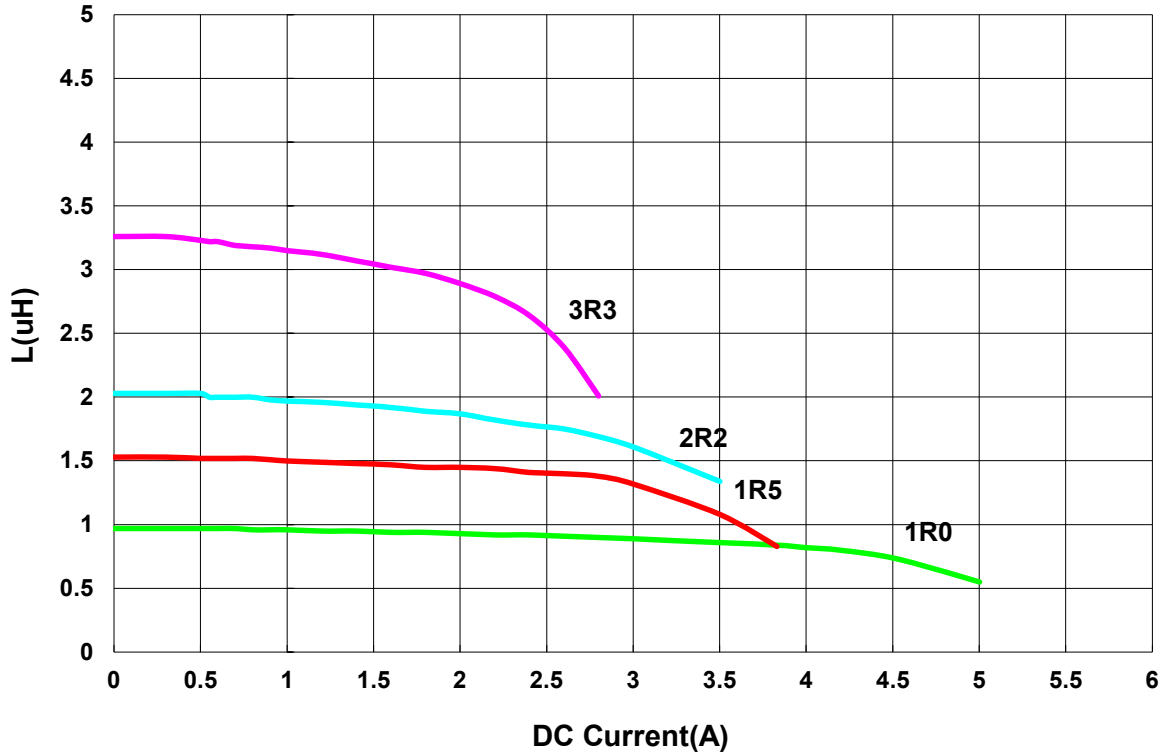
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: HP4285A+HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - I rms: Agilent HP4284A

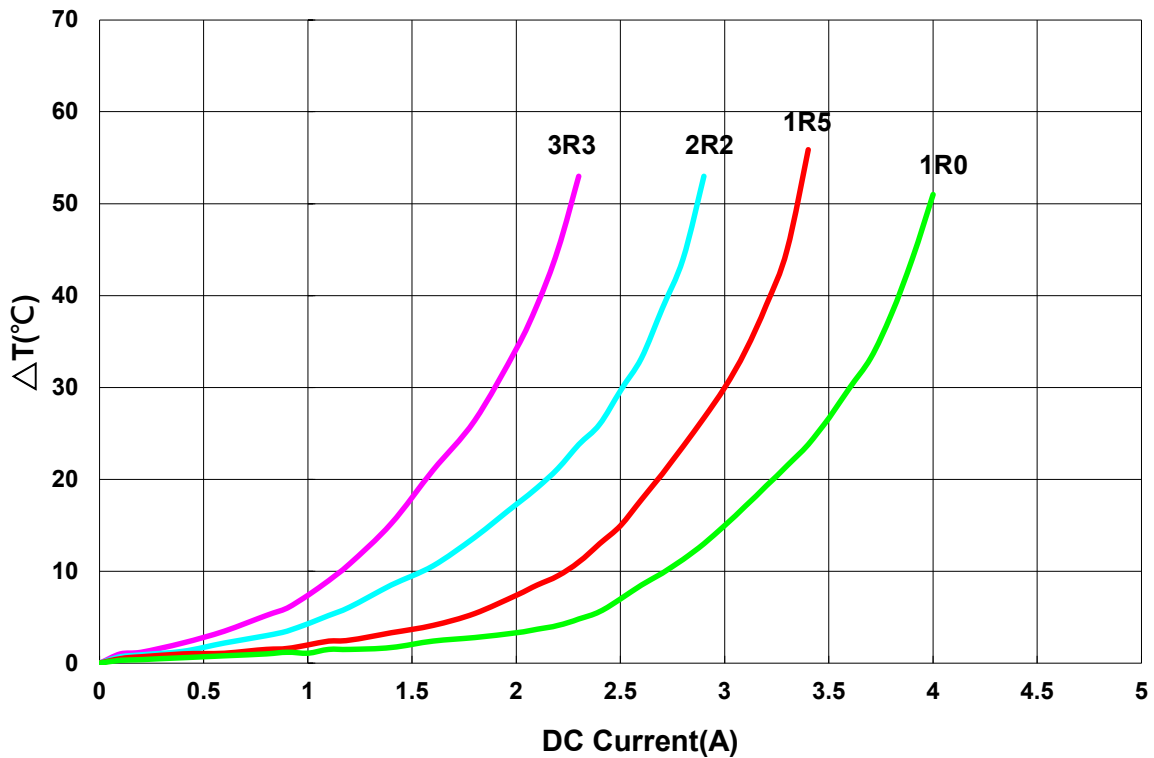
AWVF00404018 Type

Characteristics Graph

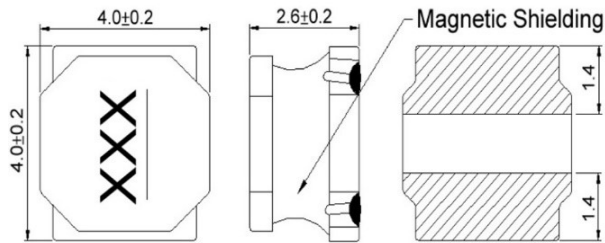
Inductance vs. DC Current



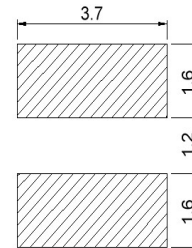
Temperature Change vs. DC Current



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AWVF00404026 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF004040261R0□00 | 1.0 | 100kHz,1V | 0.030 | 5.00(4.50) | 4.00(3.60) | 20,30 | 1R0 |
| AWVF004040261R5□00 | 1.5 | 100kHz,1V | 0.035 | 4.20(3.70) | 3.70(3.3) | 20,30 | 1R5 |
| AWVF004040262R2□00 | 2.2 | 100kHz,1V | 0.045 | 3.80(3.40) | 3.50(3.1) | 20,30 | 2R2 |
| AWVF004040263R3□00 | 3.3 | 100kHz,1V | 0.067 | 3.00(2.70) | 2.50(2.2) | 20,30 | 3R3 |
| AWVF004040264R7□00 | 4.7 | 100kHz,1V | 0.092 | 2.60(2.30) | 2.00(1.80) | 20,30 | 4R7 |
| AWVF004040265R6□00 | 5.6 | 100kHz,1V | 0.110 | 2.30(2.00) | 1.90(1.70) | 20,30 | 5R6 |
| AWVF004040266R8□00 | 6.8 | 100kHz,1V | 0.130 | 2.00(1.80) | 1.70(1.50) | 20,30 | 6R8 |
| AWVF00404026100□00 | 10 | 100kHz,1V | 0.188 | 1.90(1.70) | 1.40(1.20) | 20,30 | 100 |
| AWVF00404026150□00 | 15 | 100kHz,1V | 0.240 | 1.40(1.30) | 1.20(1.00) | 20,30 | 150 |
| AWVF00404026220□00 | 22 | 100kHz,1V | 0.330 | 1.20(1.00) | 1.00(0.90) | 20,30 | 220 |
| AWVF00404026330□00 | 33 | 100kHz,1V | 0.480 | 1.00(0.90) | 0.82(0.73) | 20,30 | 330 |
| AWVF00404026470□00 | 47 | 100kHz,1V | 0.735 | 0.88(0.79) | 0.64(0.57) | 20,30 | 470 |
| AWVF00404026101□00 | 100 | 100kHz,1V | 1.380 | 0.58(0.52) | 0.50(0.45) | 20,30 | 101 |
| AWVF00404026331□00 | 330 | 100kHz,1V | 4.600 | 0.31(0.27) | 0.25(0.22) | 20,30 | 331 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

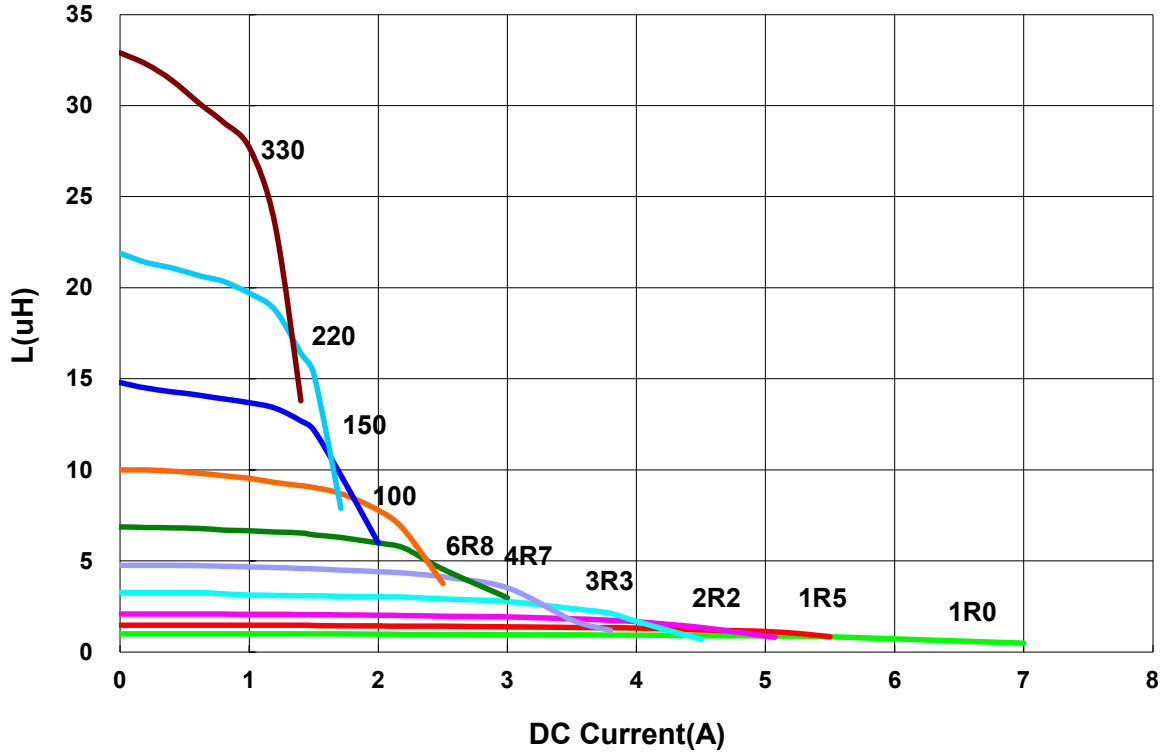
Isat: Agilent HP4284A

Irms: Agilent HP4284A

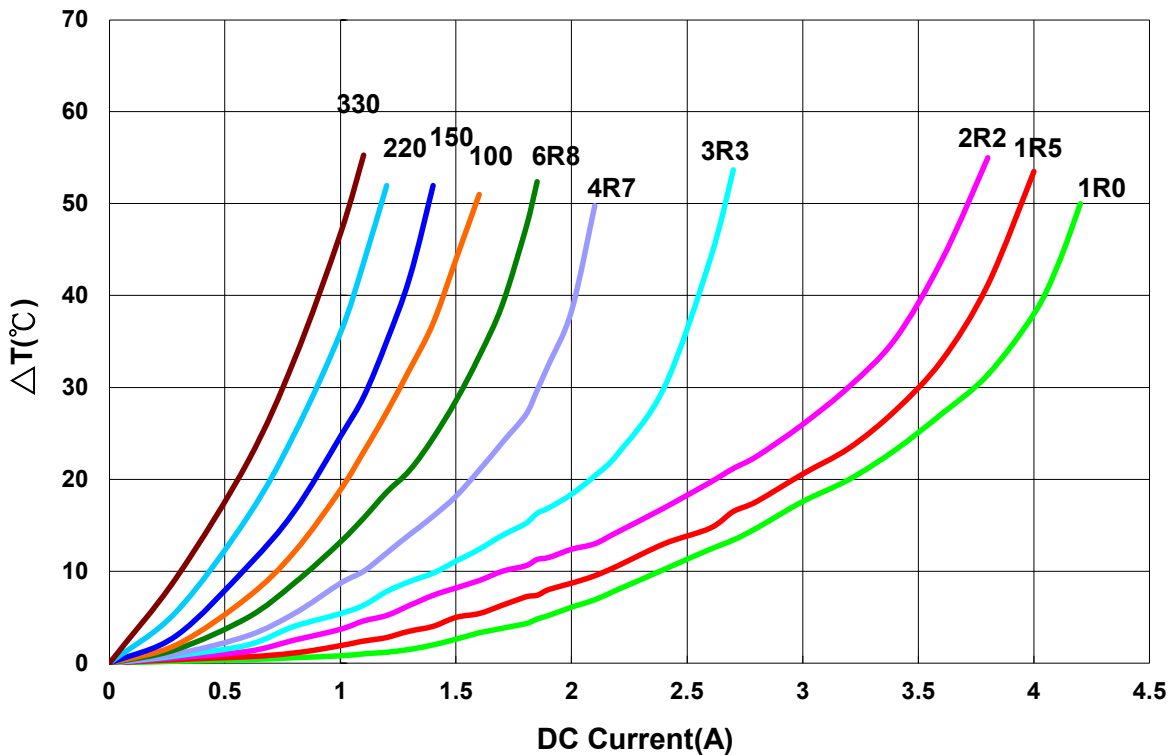
AWVF00404026 Type

Characteristics Graph

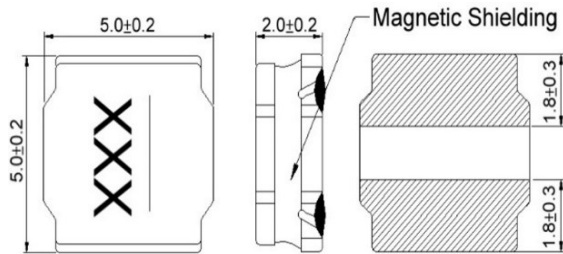
Inductance vs. DC Current



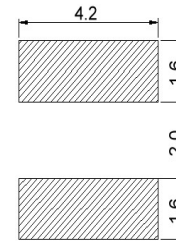
Temperature Change vs. DC Current



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AWVF00505020 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|--------------------|------------|----------------|----------------------|----------------------|-------------------|---------|
| AWVF005050201R0□00 | 1.0 | 100kHz,1V | 0.018 | 6.0(5.4) | 4.1(3.6) | 20,30 | 1R0 |
| AWVF005050201R5□00 | 1.5 | 100kHz,1V | 0.023 | 4.9(4.4) | 3.5(3.1) | 20,30 | 1R5 |
| AWVF005050201R8□00 | 1.8 | 100kHz,1V | 0.026 | 4.1(3.6) | 3.4(3.0) | 20,30 | 1R8 |
| AWVF005050202R2□00 | 2.2 | 100kHz,1V | 0.030 | 4.0(3.6) | 3.3(2.9) | 20,30 | 2R2 |
| AWVF005050203R6□00 | 3.6 | 100kHz,1V | 0.050 | 3.1(2.7) | 2.7(2.4) | 20,30 | 3R6 |
| AWVF005050203R9□00 | 3.9 | 100kHz,1V | 0.053 | 2.9(2.6) | 2.6(2.3) | 20,30 | 3R9 |
| AWVF005050204R7□00 | 4.7 | 100kHz,1V | 0.060 | 2.7(2.4) | 2.2(1.9) | 20,30 | 4R7 |
| AWVF005050206R8□00 | 6.8 | 100kHz,1V | 0.093 | 2.2(1.9) | 1.8(1.6) | 20,30 | 6R8 |
| AWVF00505020100□00 | 10 | 100kHz,1V | 0.125 | 1.8(1.6) | 1.6(1.4) | 20,30 | 100 |
| AWVF00505020150□00 | 15 | 100kHz,1V | 0.195 | 1.4(1.2) | 1.2(1.0) | 20,30 | 150 |
| AWVF00505020220□00 | 22 | 100kHz,1V | 0.265 | 1.2(1.0) | 1.0(0.9) | 20,30 | 220 |

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)

2. Isat for Inductance drop 30% from its value without current

3. Irms for a 40°C temperature rise from 25°C ambient with current

4. Measure Equipment:

L: HP4285A+HP42841A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

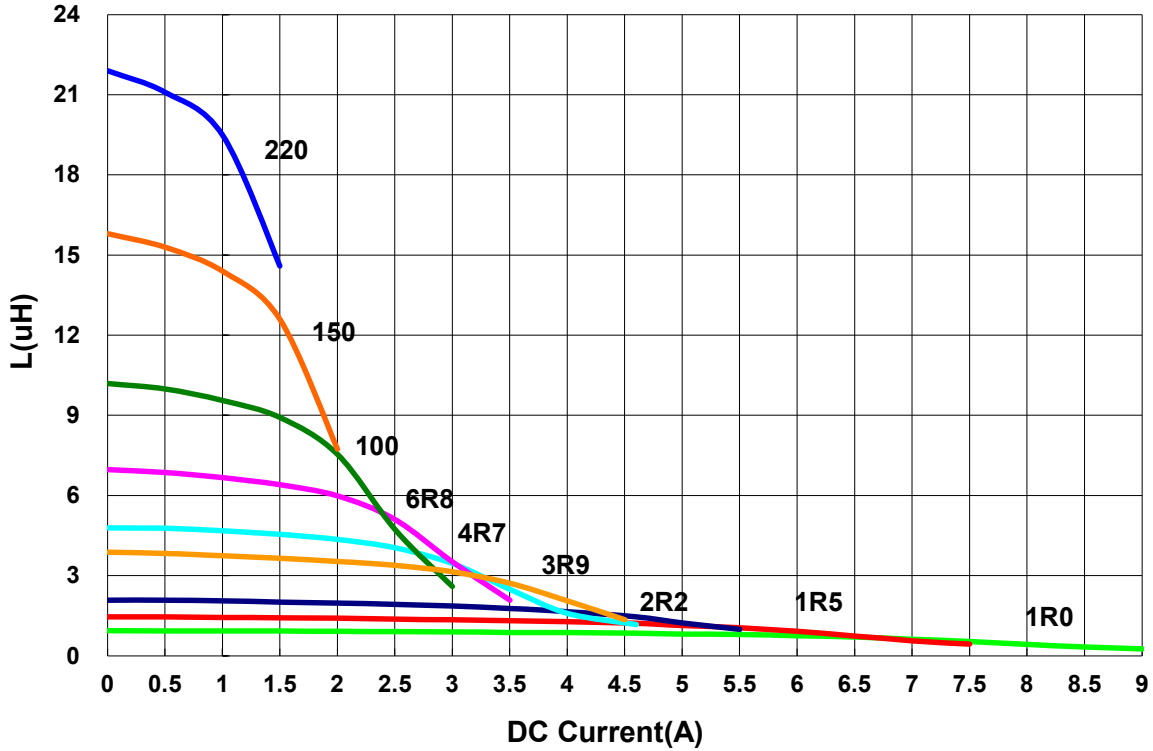
Isat: Agilent HP4284A

Irms: Agilent HP4284A

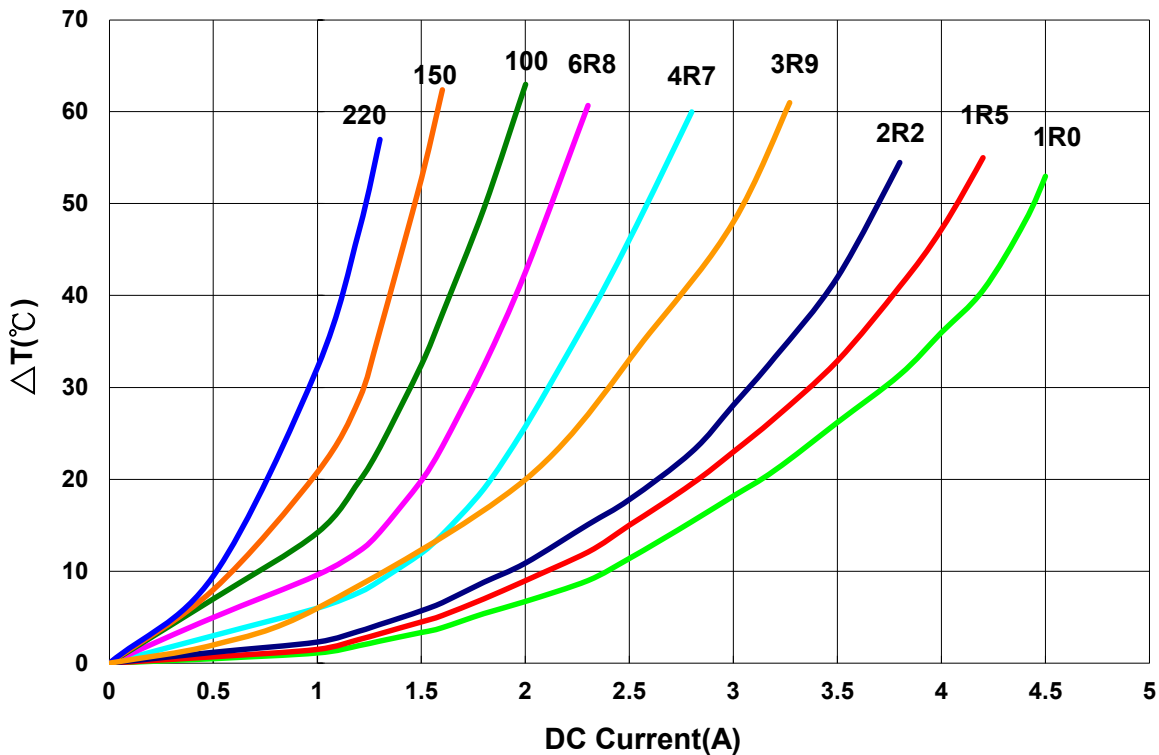
AWVF00505020 Type

Characteristics Graph

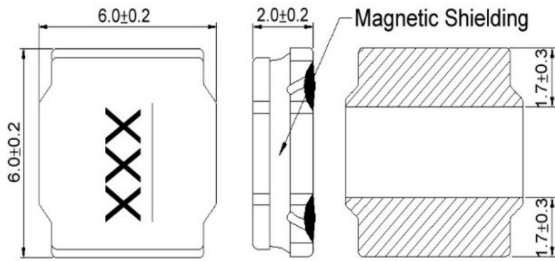
Inductance vs. DC Current



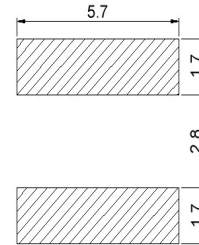
Temperature Change vs. DC Current



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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

AWVF00606020 Type
■ Dimensions


unit:mm

■ Recommended Land Pattern


unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω)±30% | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|-------------------|-------------------|----------------|---------|
| AWVF006060204R7□00 | 4.7 | 100kHz,1V | 0.058 | 3.0(2.7) | 2.3(2.0) | 20,30 | 4R7 |
| AWVF00606020100□00 | 10 | 100kHz,1V | 0.130 | 2.1(1.8) | 1.6(1.4) | 20,30 | 100 |
| AWVF00606020150□00 | 15 | 100kHz,1V | 0.195 | 1.6(1.4) | 1.3(1.1) | 20,30 | 150 |
| AWVF00606020220□00 | 22 | 100kHz,1V | 0.260 | 1.3(1.1) | 1.1(0.99) | 20,30 | 220 |
| AWVF00606020470□00 | 47 | 100kHz,1V | 0.510 | 0.9(0.8) | 0.8(0.72) | 20,30 | 470 |

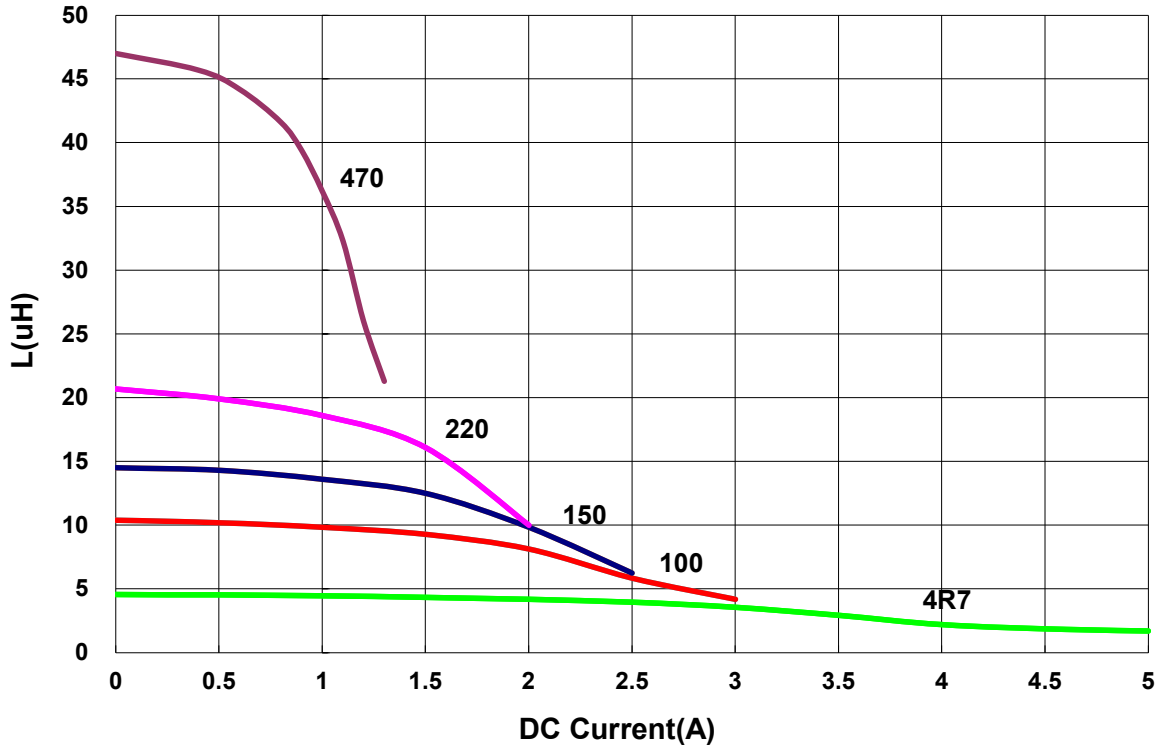
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. Irms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 - L: HP4285A+HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: Agilent HP4284A
 - Irms: Agilent HP4284A

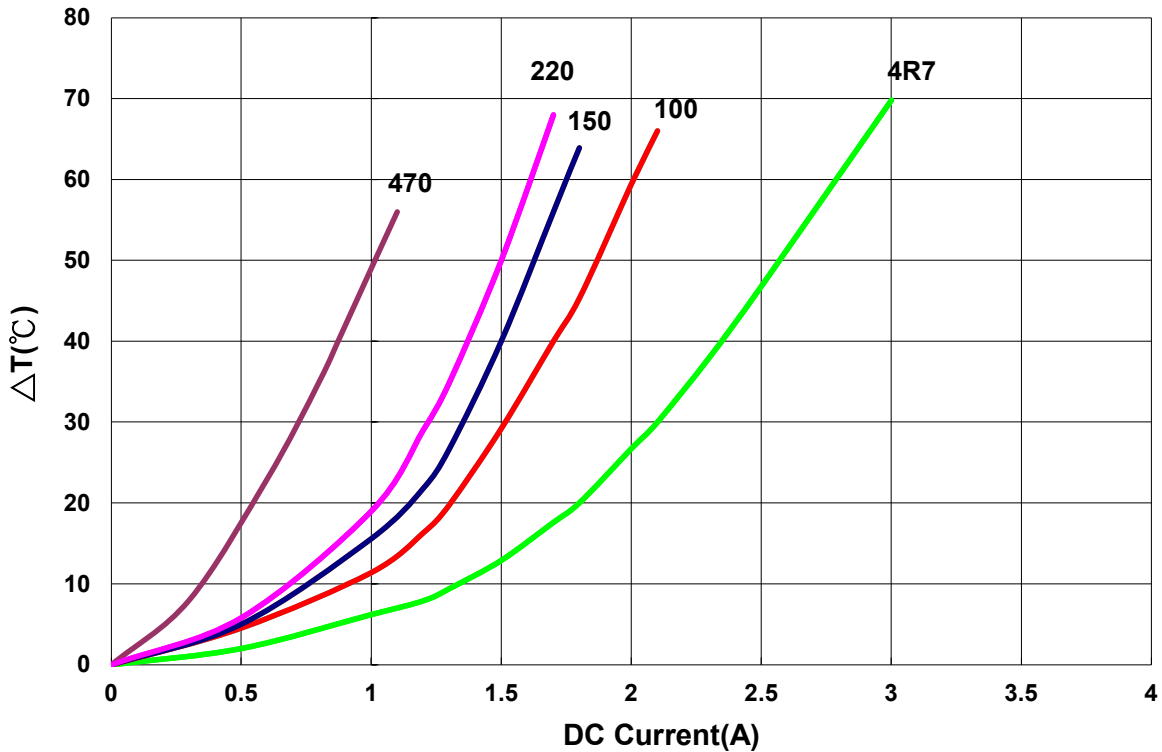
AWVF00606020 Type

Characteristics Graph

Inductance vs. DC Current



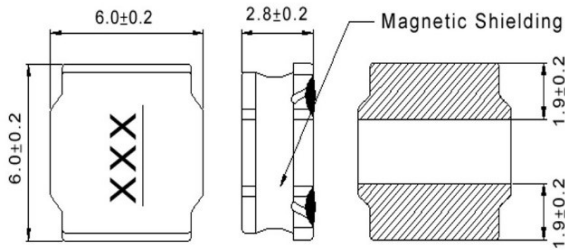
Temperature Change vs. DC Current



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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

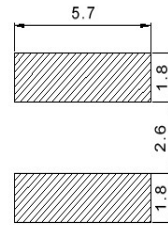
AWVF00606028 Type

Dimensions



unit:mm

Recommended Land Pattern



unit:mm

Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω) $\pm 30\%$ | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance ($\pm\%$) | Marking |
|--------------------|-----------------|------------|-----------------------------|-------------------|-------------------|-----------------------|---------|
| AWVF006060281R0□00 | 1.0 | 100kHz,1V | 0.012 | 7.9(7.10) | 6.3(5.60) | 20,30 | 1R0 |
| AWVF006060281R5□00 | 1.5 | 100kHz,1V | 0.015 | 7.0(6.30) | 5.5(4.90) | 20,30 | 1R5 |
| AWVF006060282R2□00 | 2.2 | 100kHz,1V | 0.020 | 6.0(5.40) | 5.0(4.50) | 20,30 | 2R2 |
| AWVF006060284R7□00 | 4.7 | 100kHz,1V | 0.036 | 4.0(3.60) | 3.4(3.00) | 20,30 | 4R7 |
| AWVF006060286R8□00 | 6.8 | 100kHz,1V | 0.048 | 3.2(2.80) | 3.0(2.70) | 20,30 | 6R8 |

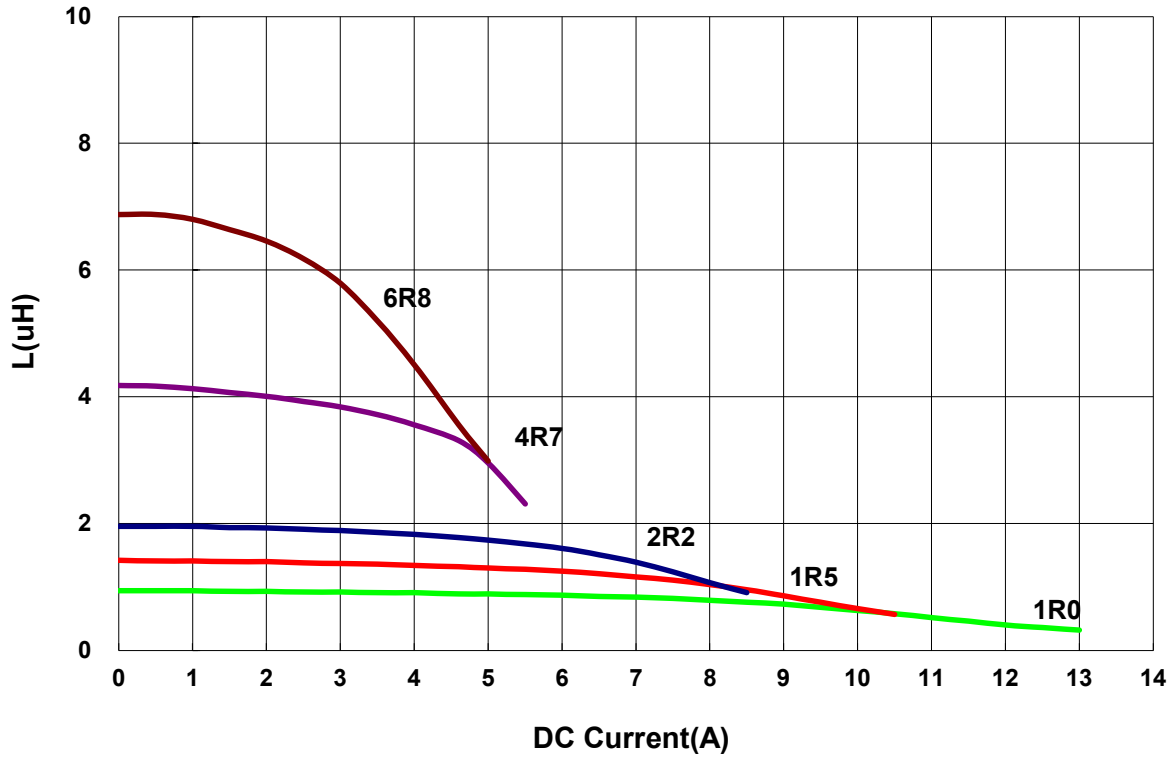
Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$ / T= $\pm 30\%$

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
L: HP4285A+HP42841A
RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
Isat: Agilent HP4284A
I rms: Agilent HP4284A

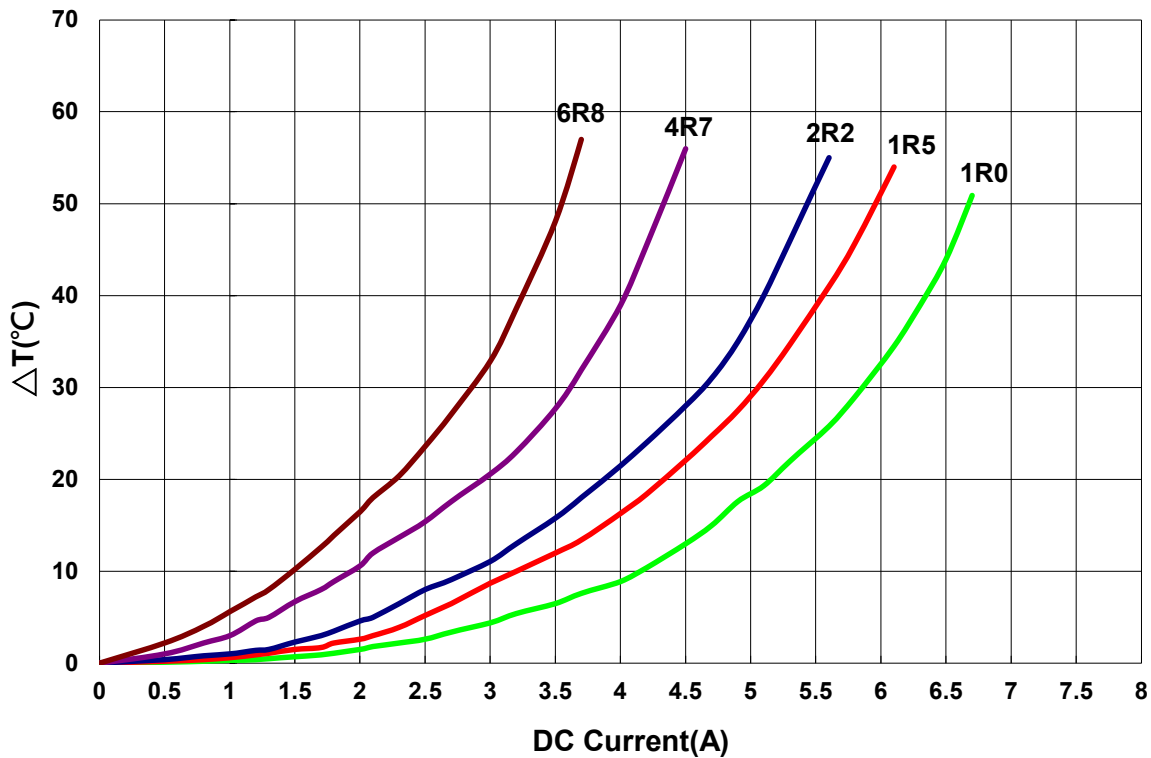
AWVF00606028 Type

Characteristics Graph

Inductance vs. DC Current



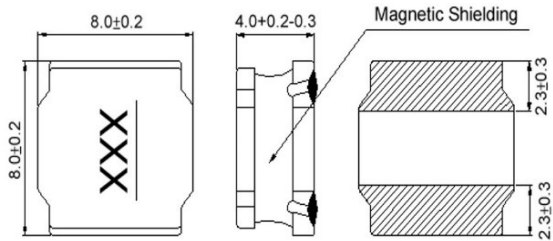
Temperature Change vs. DC Current



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 prior notice. This product may not be designed/used in medical or high risk applications without Chilisin approval. Please contact our sales department before ordering.

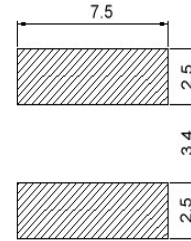
AWVF00808040 Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

| Part No. | Inductance (uH) | Test Freq. | RDC (Ω) $\pm 30\%$ | Isat(A) Typ.(Max) | Irms(A) Typ.(Max) | Tolerance ($\pm\%$) | Marking |
|--------------------|-----------------|------------|-----------------------------|-------------------|-------------------|-----------------------|---------|
| AWVF008080404R7□00 | 4.7 | 100kHz,1V | 0.020 | 6.8(6.00) | 5.5(4.80) | 20,30 | 4R7 |
| AWVF00808040100□00 | 10 | 100kHz,1V | 0.038 | 5.0(4.40) | 3.8(3.30) | 20,30 | 100 |
| AWVF00808040150□00 | 15 | 100kHz,1V | 0.057 | 4.0(3.50) | 3.2(2.70) | 20,30 | 150 |
| AWVF00808040220□00 | 22 | 100kHz,1V | 0.082 | 3.4(2.90) | 2.7(2.30) | 20,30 | 220 |

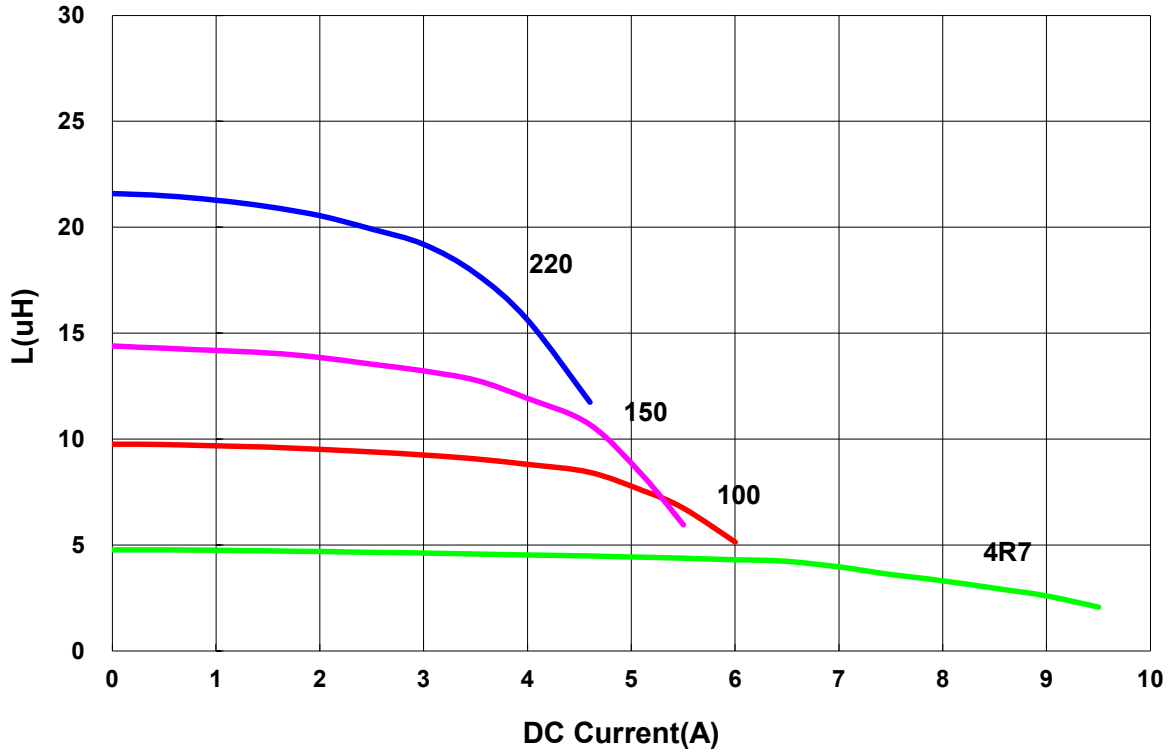
Note: When ordering, please specify tolerance code. Tolerance: M= $\pm 20\%$ / T= $\pm 30\%$

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. I rms for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:
 L: HP4285A+HP42841A
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 Isat: Agilent HP4284A
 I rms: Agilent HP4284A

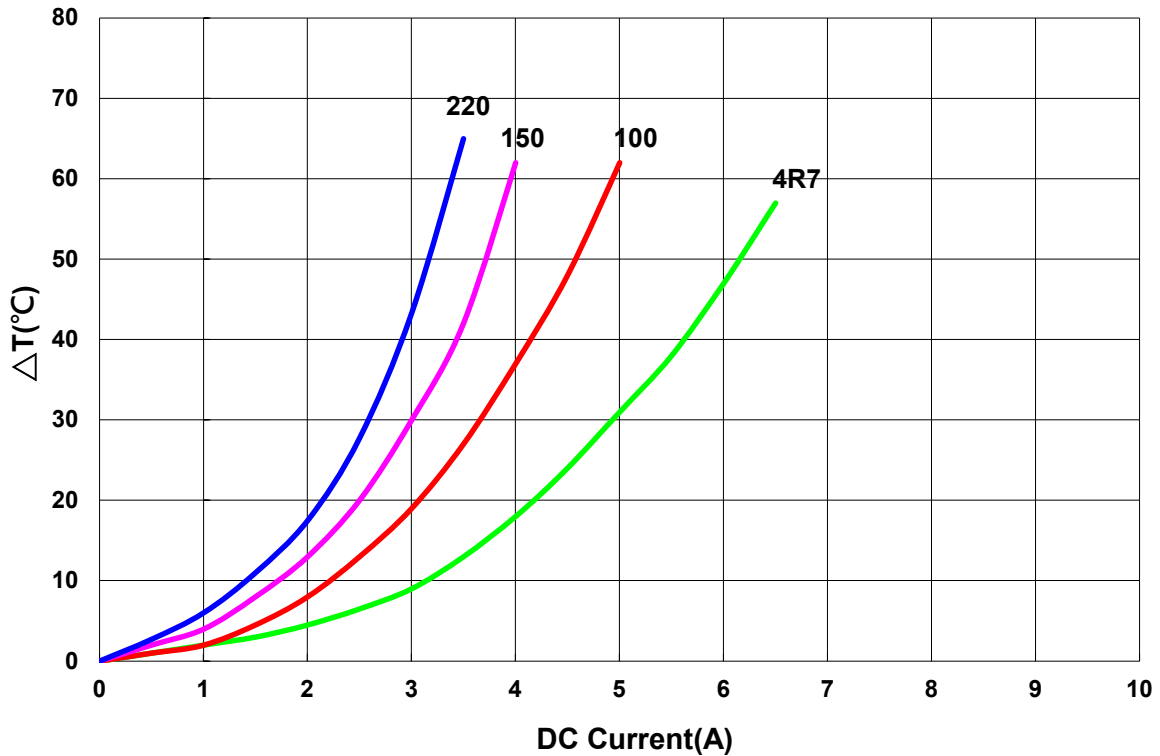
AWVF00808040 Type

Characteristics Graph

Inductance vs. DC Current



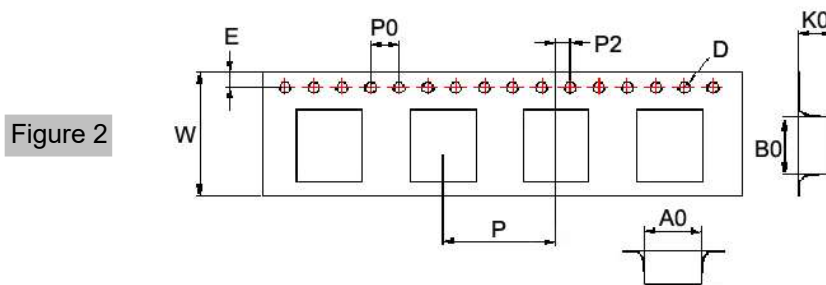
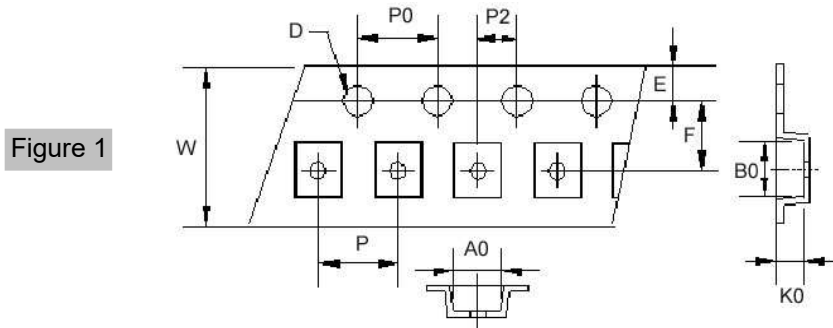
Temperature Change vs. DC Current



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■ Packaging

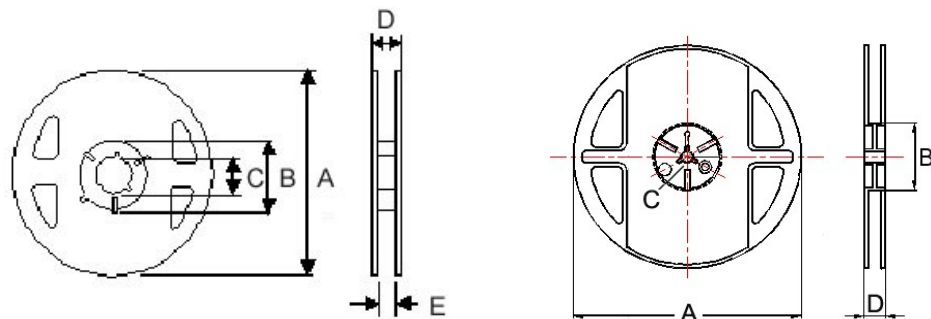
Tape Dimensions



Reel Dimensions

Figure 1

Figure 2



Dimensions in mm

| TYPE | Fig | Tape Dimensions | | | | | | | | | | Reel Dimensions | | | | | Quantity PCS / Reel |
|--------------|-----|-----------------|------|------|------|------|-----|----|----|----|----|-----------------|-----|----|------|-----|------------------------|
| | | A0 | B0 | K0 | D | E | F | W | P | P0 | P2 | A | B | C | D | E | |
| AWVF00201612 | 1 | 1.9 | 2.2 | 1.3 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00252010 | 1 | 2.4 | 2.7 | 1.15 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00252012 | 1 | 2.40 | 2.70 | 1.35 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00303010 | 1 | 3.2 | 3.2 | 1.4 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00303012 | 1 | 3.20 | 3.20 | 1.40 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00303015 | 1 | 3.15 | 3.15 | 1.60 | 1.55 | 1.75 | 3.5 | 8 | 4 | 4 | 2 | 180 | 60 | 13 | 14.4 | 8.4 | 2000 |
| AWVF00404012 | 2 | 4.25 | 4.25 | 1.3 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 1000 |
| AWVF00404015 | 2 | 4.25 | 4.25 | 1.7 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 1000 |
| AWVF00404018 | 2 | 4.25 | 4.25 | 2.10 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 800 |
| AWVF00404026 | 2 | 4.25 | 4.25 | 3 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 178 | 60 | 13 | 13.2 | - | 500 |
| AWVF00505020 | 2 | 5.25 | 5.25 | 2.2 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 330 | 100 | 13 | 13.4 | - | 2000 |
| AWVF00606020 | 2 | 6.25 | 6.25 | 2.2 | 1.55 | 1.75 | 5.5 | 12 | 8 | 4 | 2 | 330 | 100 | 13 | 13.4 | - | 2000 |
| AWVF00606028 | 2 | 6.25 | 6.25 | 3.00 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16 | - | 1500 |
| AWVF00808040 | 2 | 8.25 | 8.25 | 4.15 | 1.55 | 1.75 | 7.5 | 16 | 12 | 4 | 2 | 330 | 100 | 13 | 16 | - | 1000 |