

## Power Inductor AWVF Series

Automotive  
AEC-Q200

RoHS Compliant  
Halogen Free  
REACH Compliant



Power  
Circuit

Shield

Magnetic  
Resin LVx

Ferrite

High  
Current

### Part Numbering

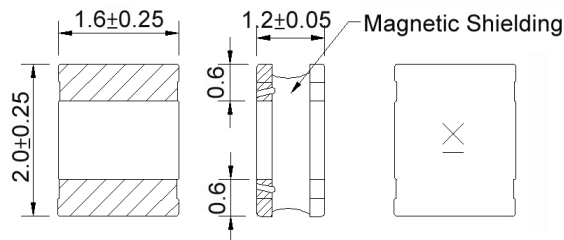
| A     | WVF         | 00           | 404018               | 1R0             | M         | 00            |
|-------|-------------|--------------|----------------------|-----------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code (mm) | Inductance (uH) | Tolerance | 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   |                 |           |               |

## Power Inductor AWVF Series

Automotive  
AEC-Q200

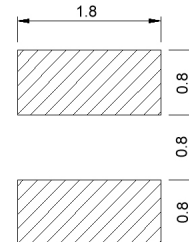
### AWVF00201612 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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       |

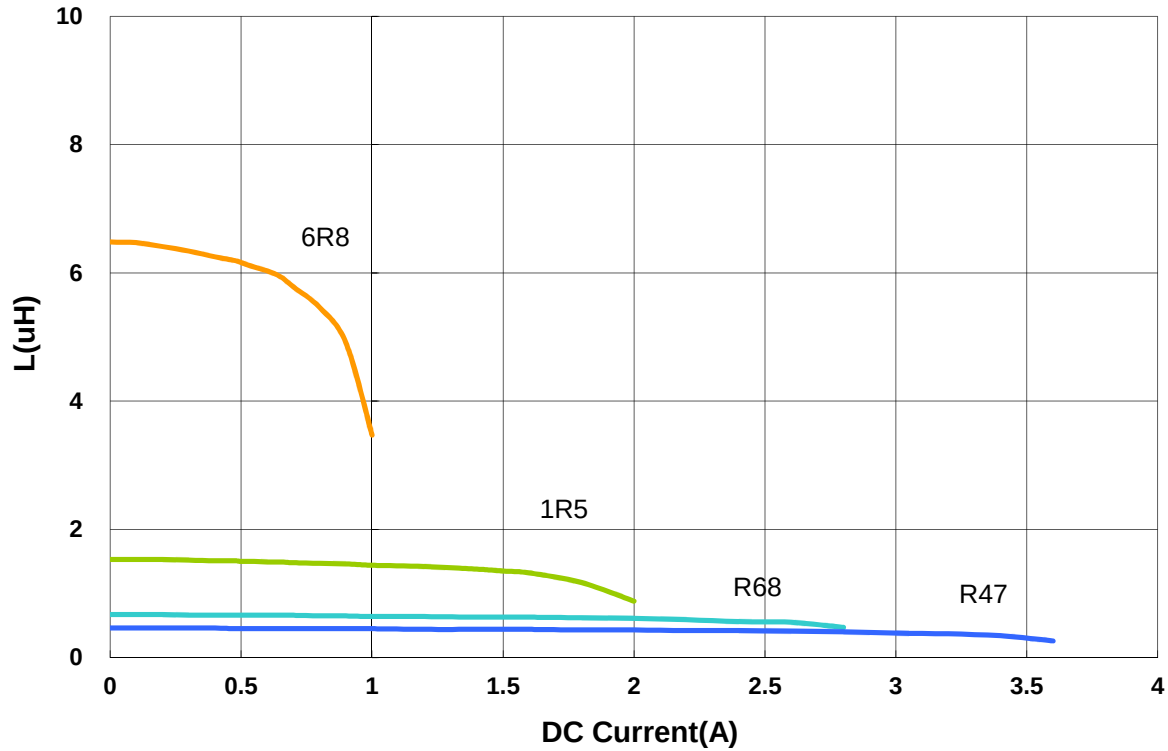
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
  - L: Agilent HP4287A+Agilent HP16197A
  - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  - Isat: Agilent HP4284A
  - Irms: Agilent HP4284A

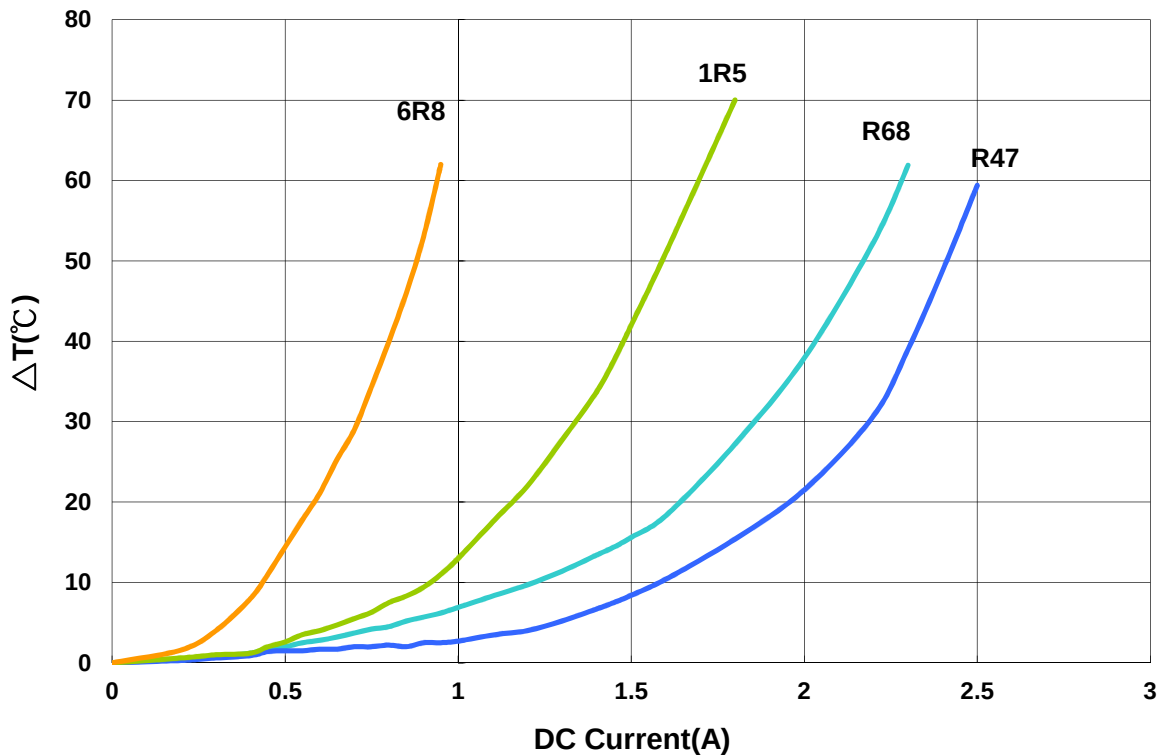
**AWVF00201612 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



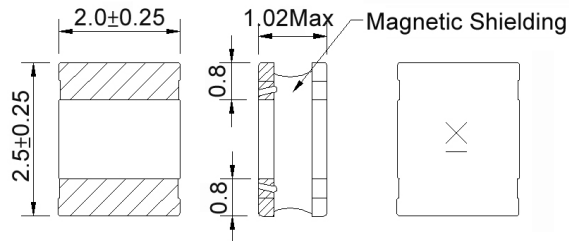
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## Power Inductor AWVF Series

Automotive  
AEC-Q200

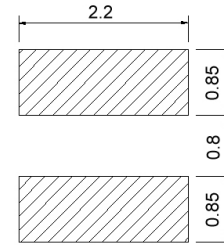
### AWVF00252010 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

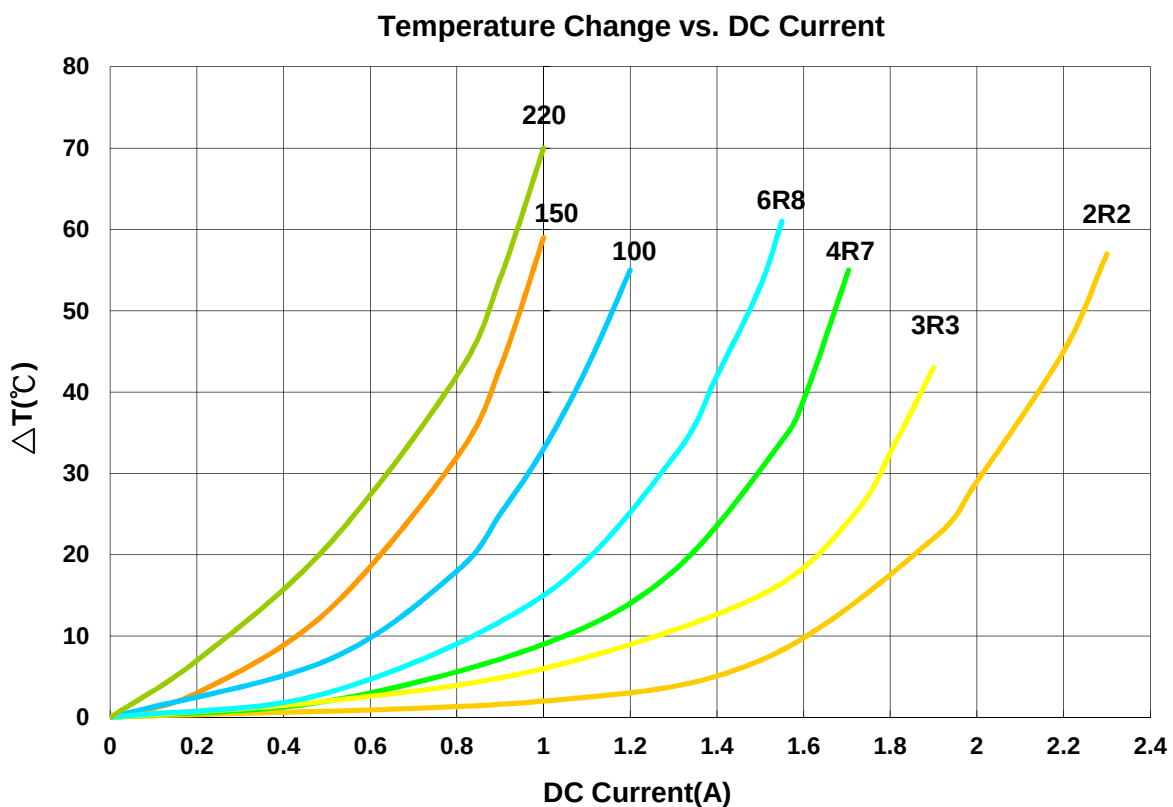
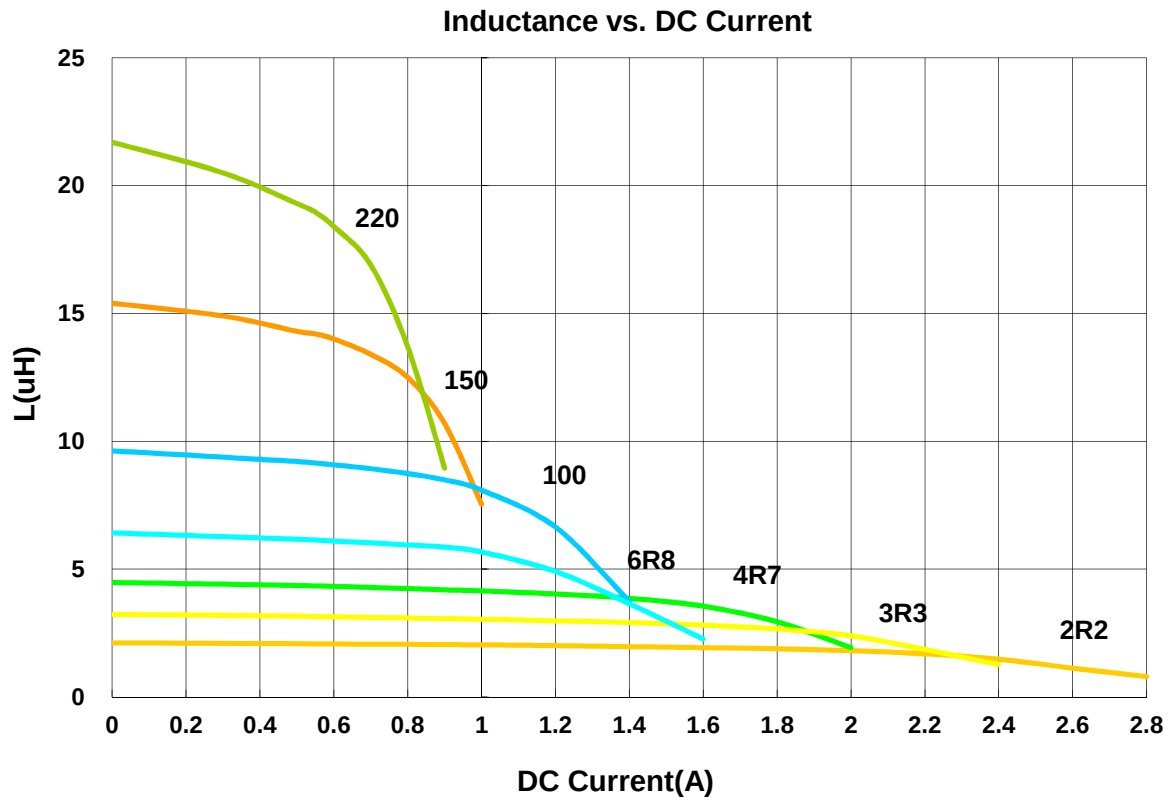
| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | Marking |
|--------------------|--------------------|------------|----------------|----------------------|----------------------|-------------------|---------|
| 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%**

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:  
 L: Agilent HP4287A+Agilent HP16197A  
 RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent  
 Isat: Agilent HP4284A  
 Irms: Agilent HP4284A

**AWVF00252010 Type**

**Characteristics Graph**



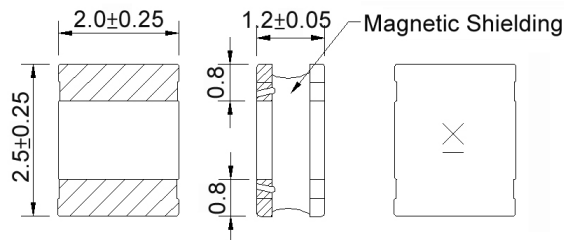
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Automotive  
AEC-Q200

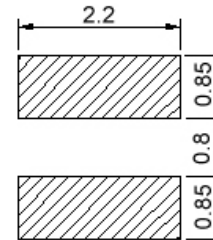
### AWVF00252012 Type

#### Dimensions



unit:mm

#### Recommended Land Pattern



unit:mm

#### Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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       |

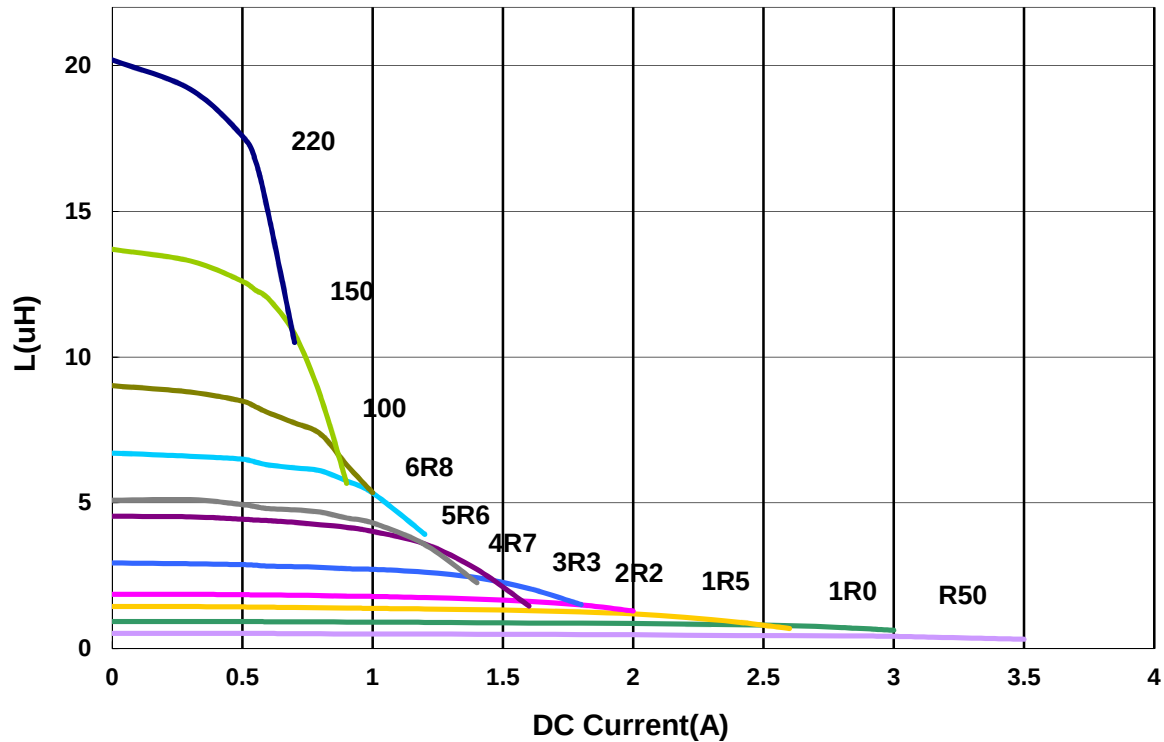
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temprature rise from 25°C ambient.
- Measure Equipment:
  - L: Agilent/HP4287A+Agilent/HP16197A
  - RDC: Digital Milliohm Meter Chroma 16502, or equivalent
  - Isat: Agilent/HP4284A
  - Irms: Agilent/HP4284A

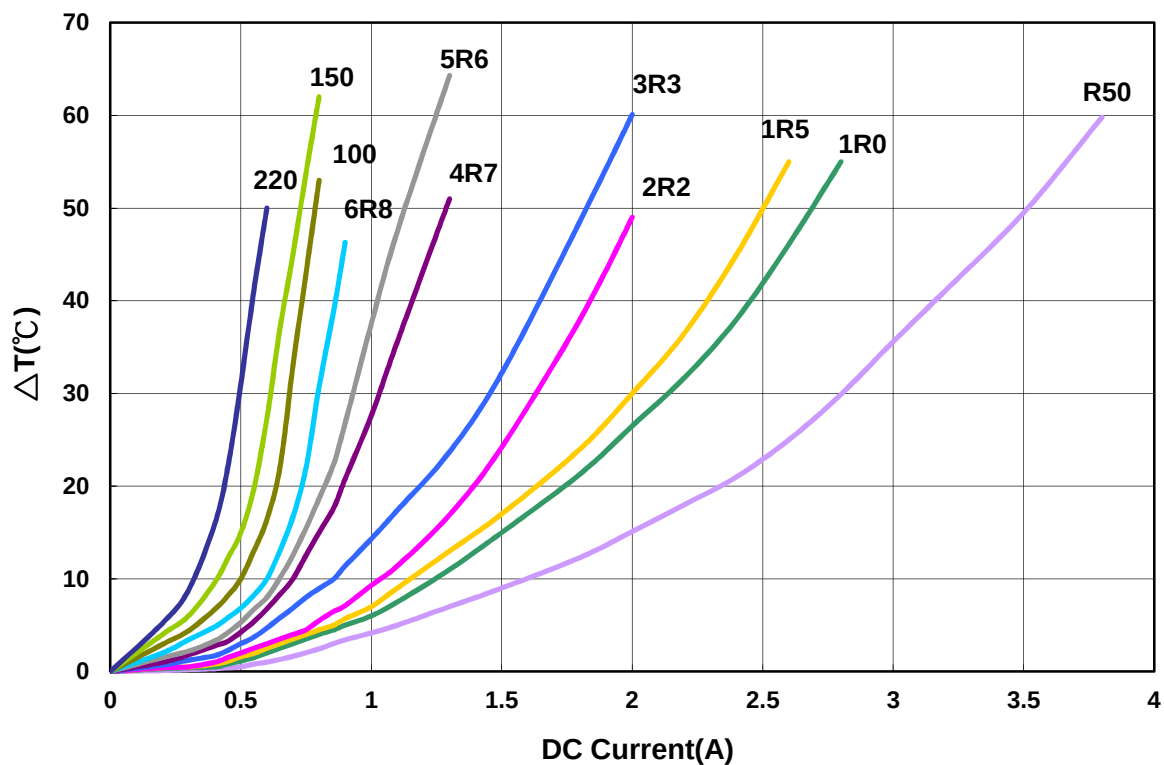
**AWVF00252012 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



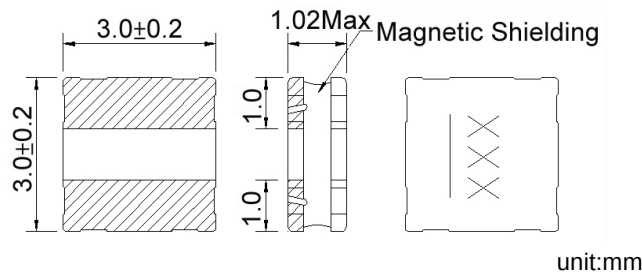
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## Power Inductor AWVF Series

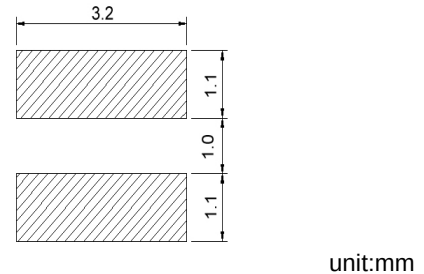
Automotive  
AEC-Q200

### AWVF00303010 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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%**

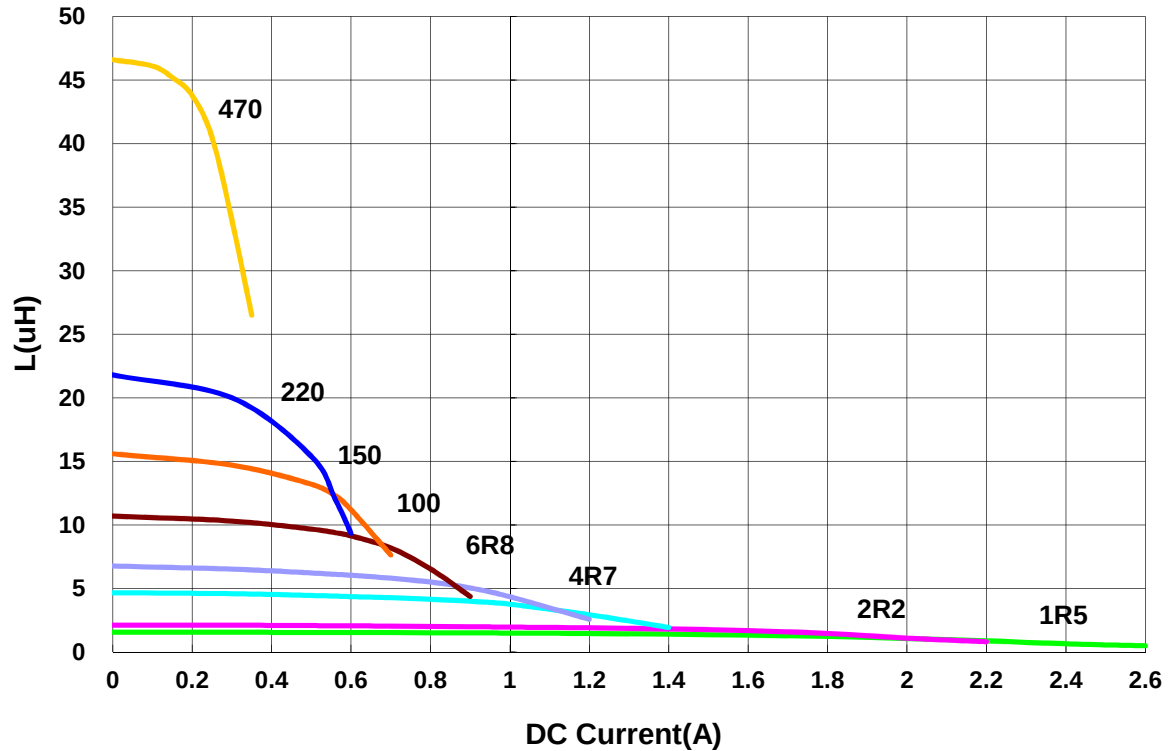
- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
  - L: Agilent HP4287A+Agilent HP16197A
  - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  - Isat: Agilent HP4284A
  - Irms: Agilent HP4284A



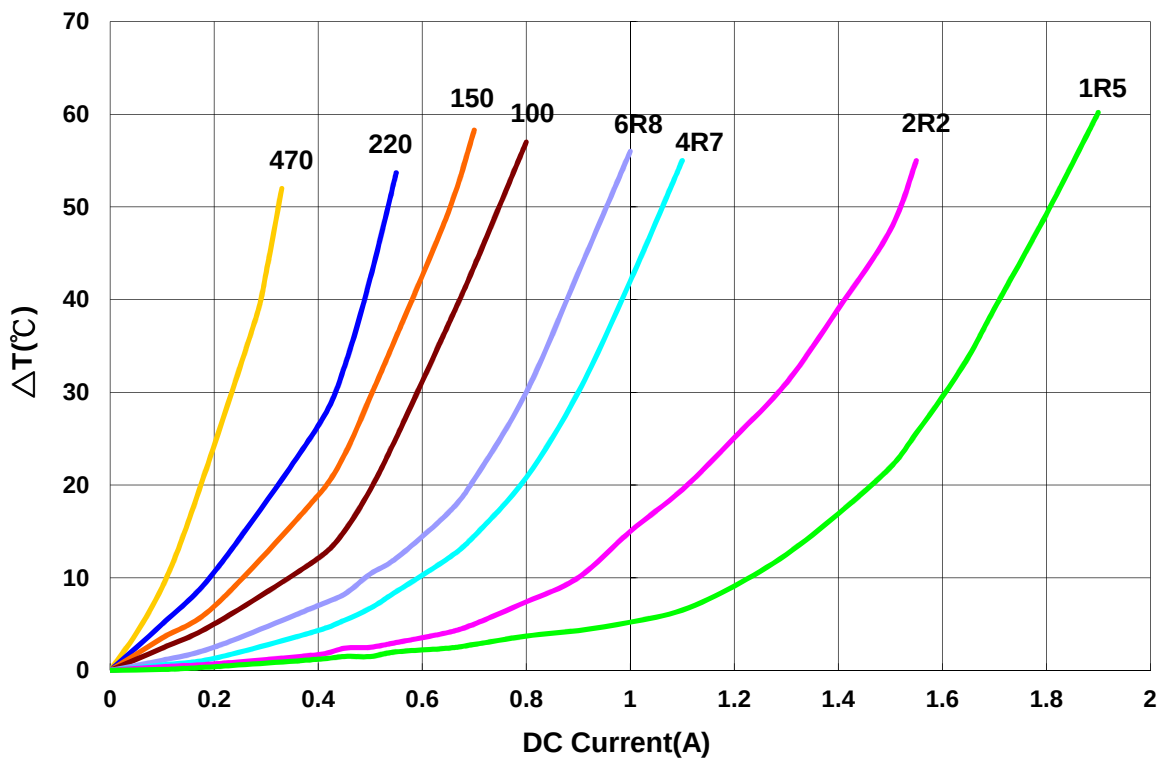
**AWVF00303010 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



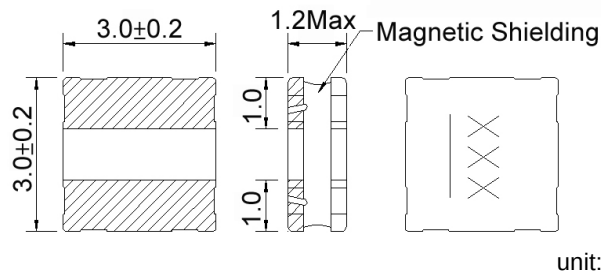
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## Power Inductor AWVF Series

Automotive  
AEC-Q200

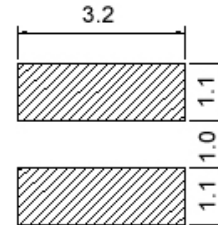
### AWVF00303012 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

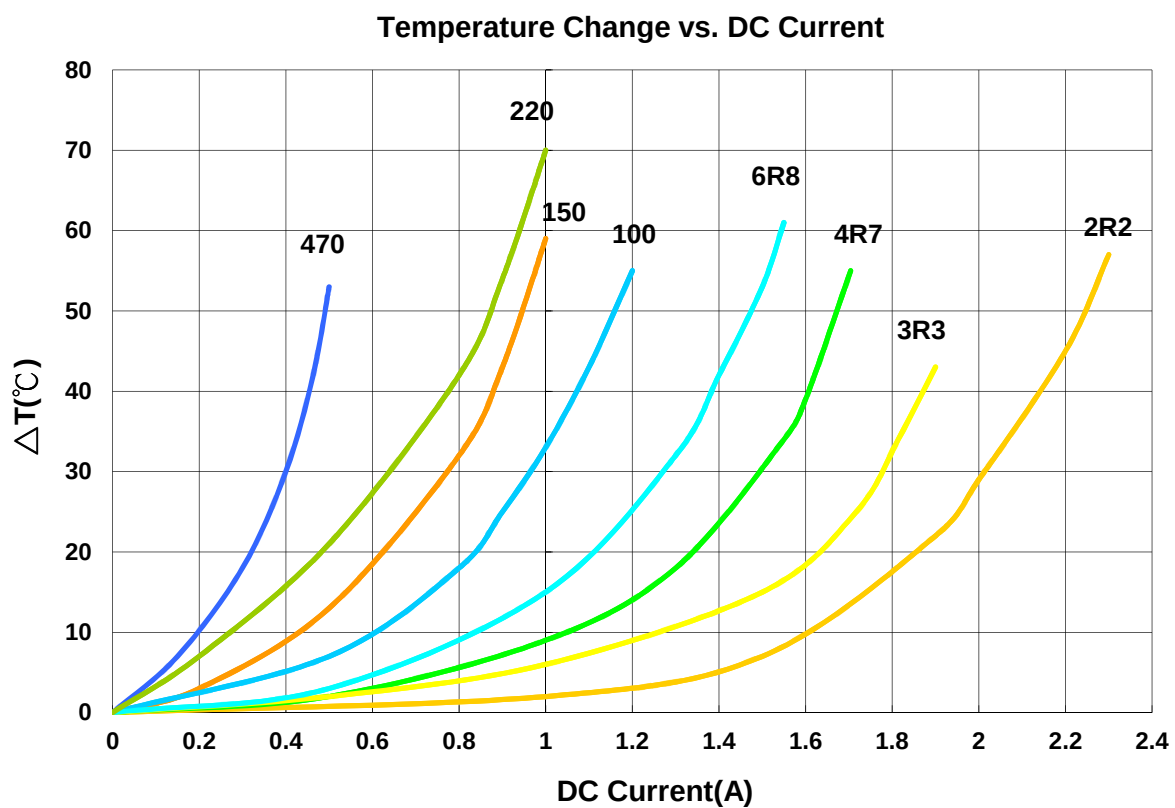
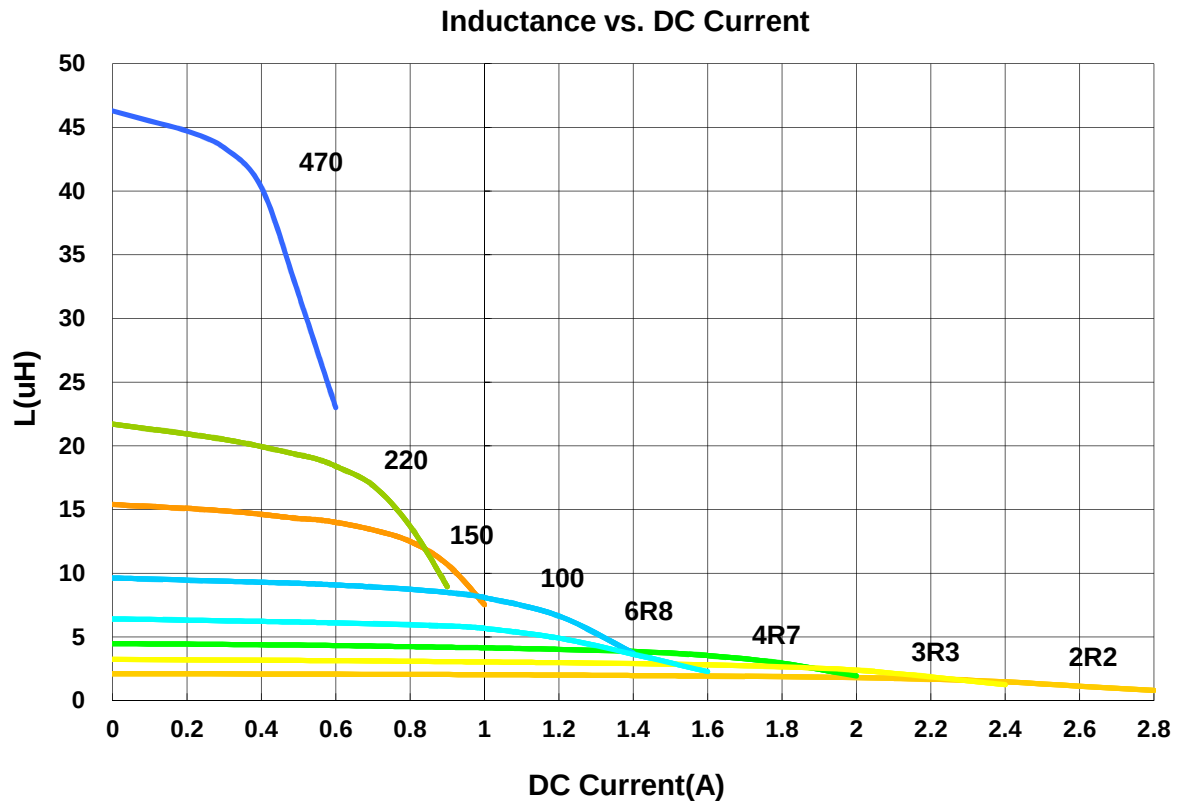
| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | Marking |
|--------------------|--------------------|------------|----------------|----------------------|----------------------|-------------------|---------|
| 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%**

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
  - L: Agilent HP4287A+Agilent HP16197A
  - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  - Isat: Agilent HP4284A
  - Irms: Agilent HP4284A

**AWVF00303012 Type**

**Characteristics Graph**



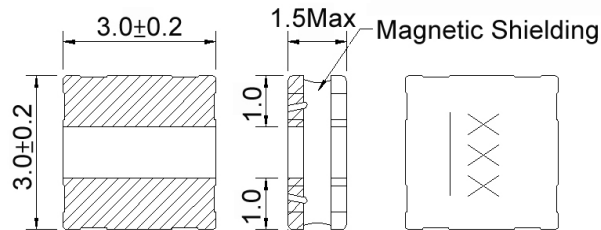
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## Power Inductor AWVF Series

Automotive  
AEC-Q200

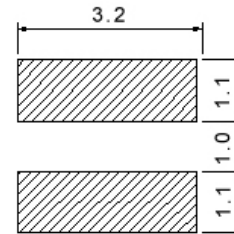
### AWVF00303015 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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%**

- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:

L: Agilent HP4287A+Agilent HP16197A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

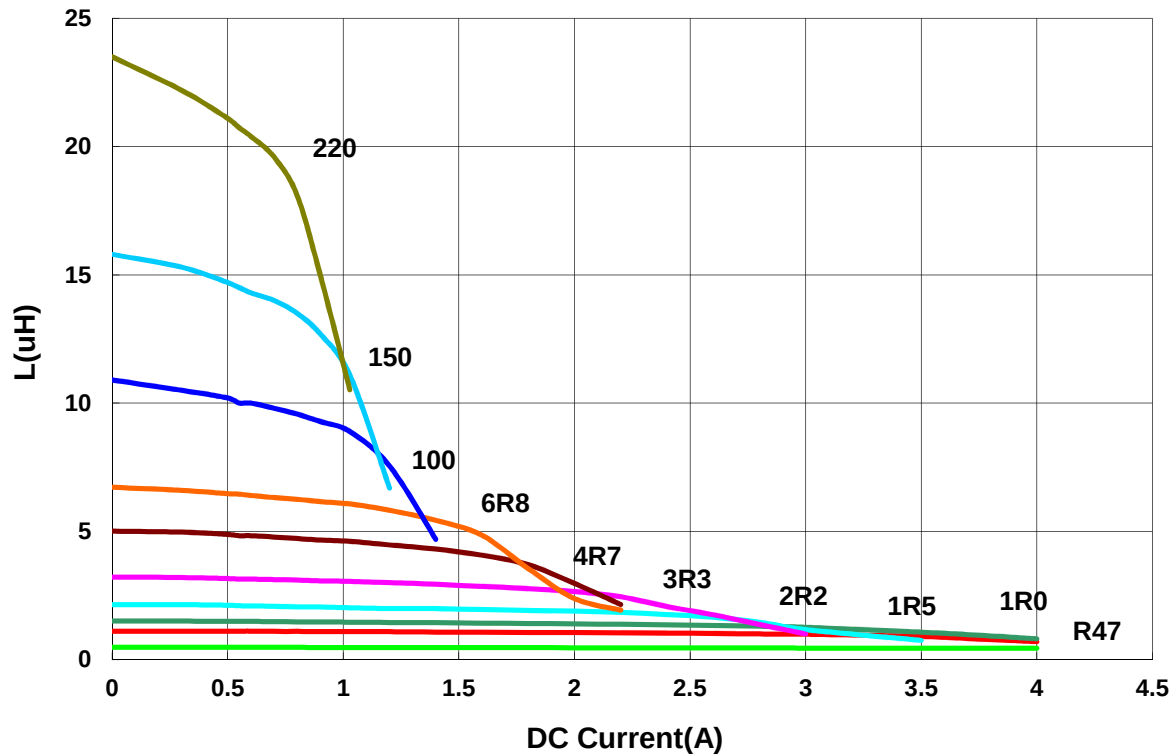
Isat: Agilent HP4284A

Irms: Agilent HP4284A

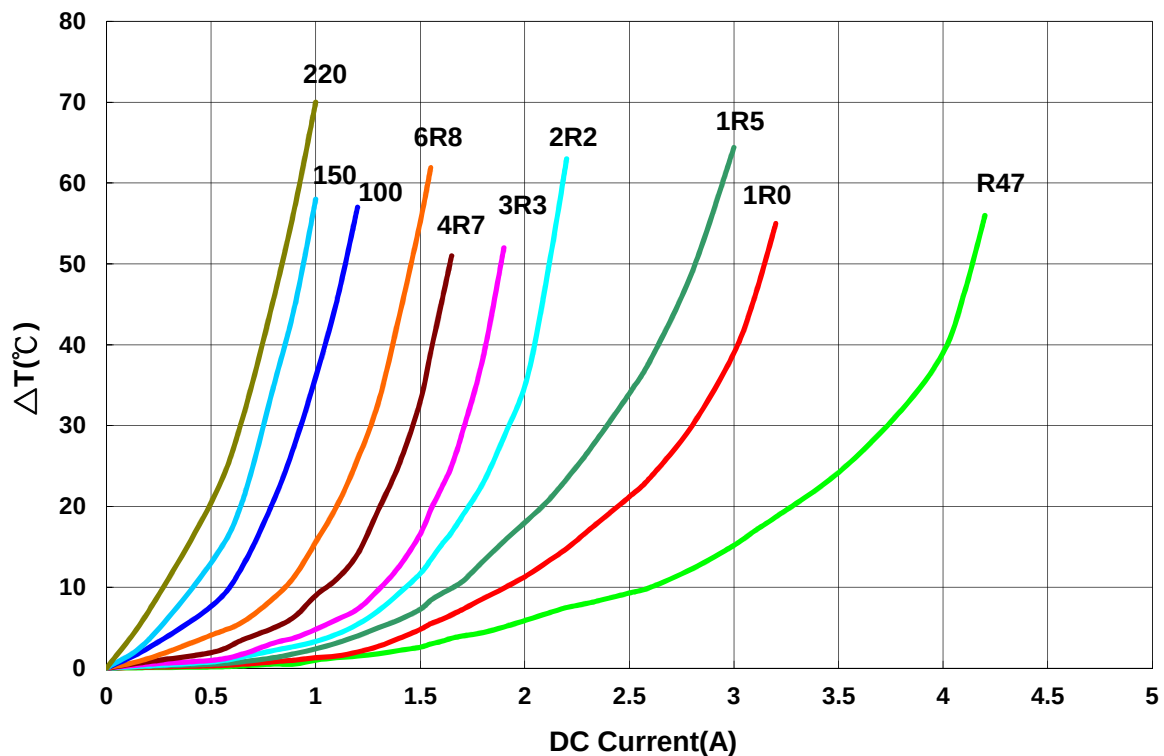
**AWVF00303015 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



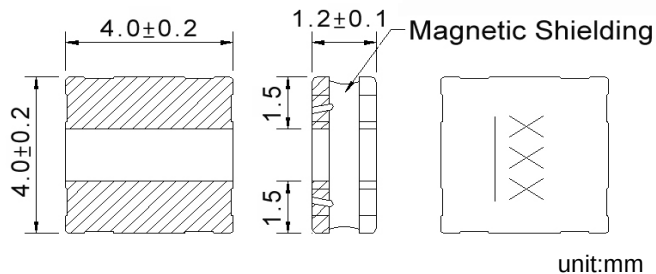
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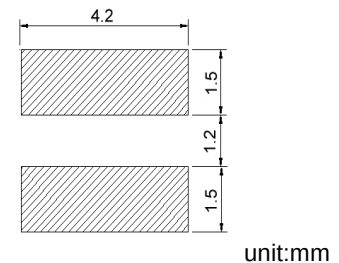
Automotive  
AEC-Q200

### AWVF00404012 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

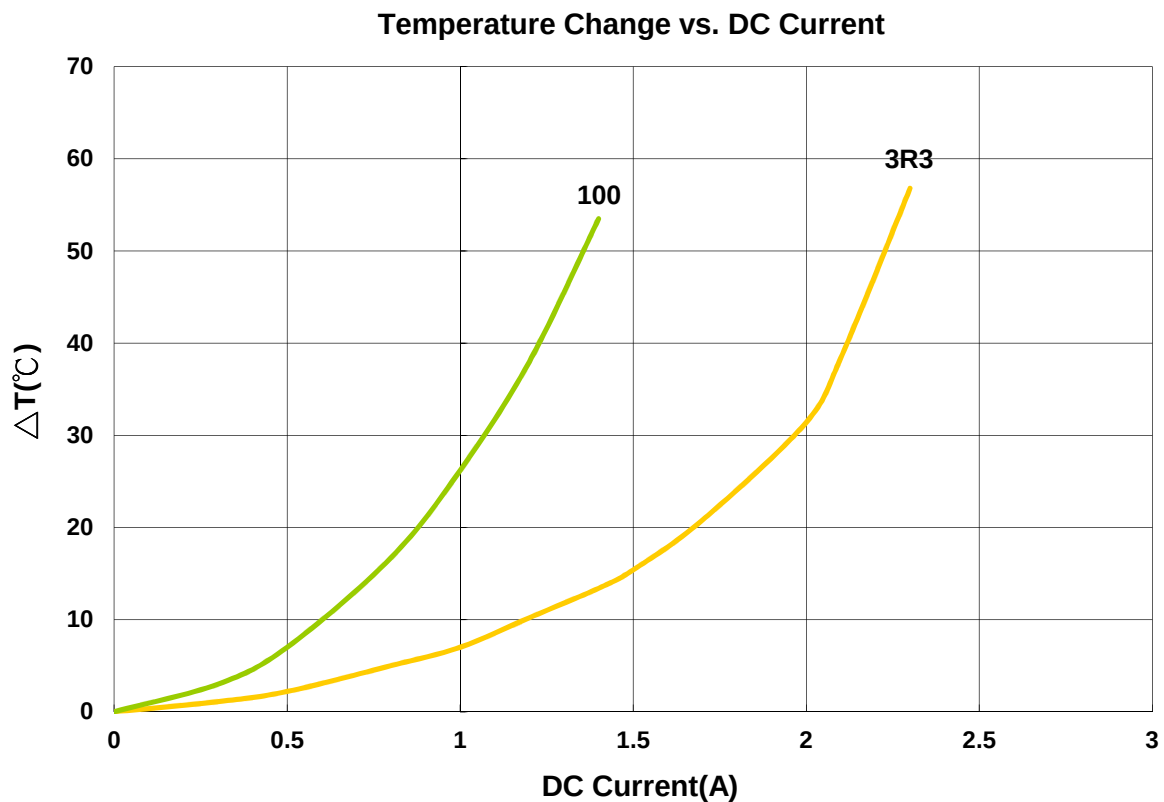
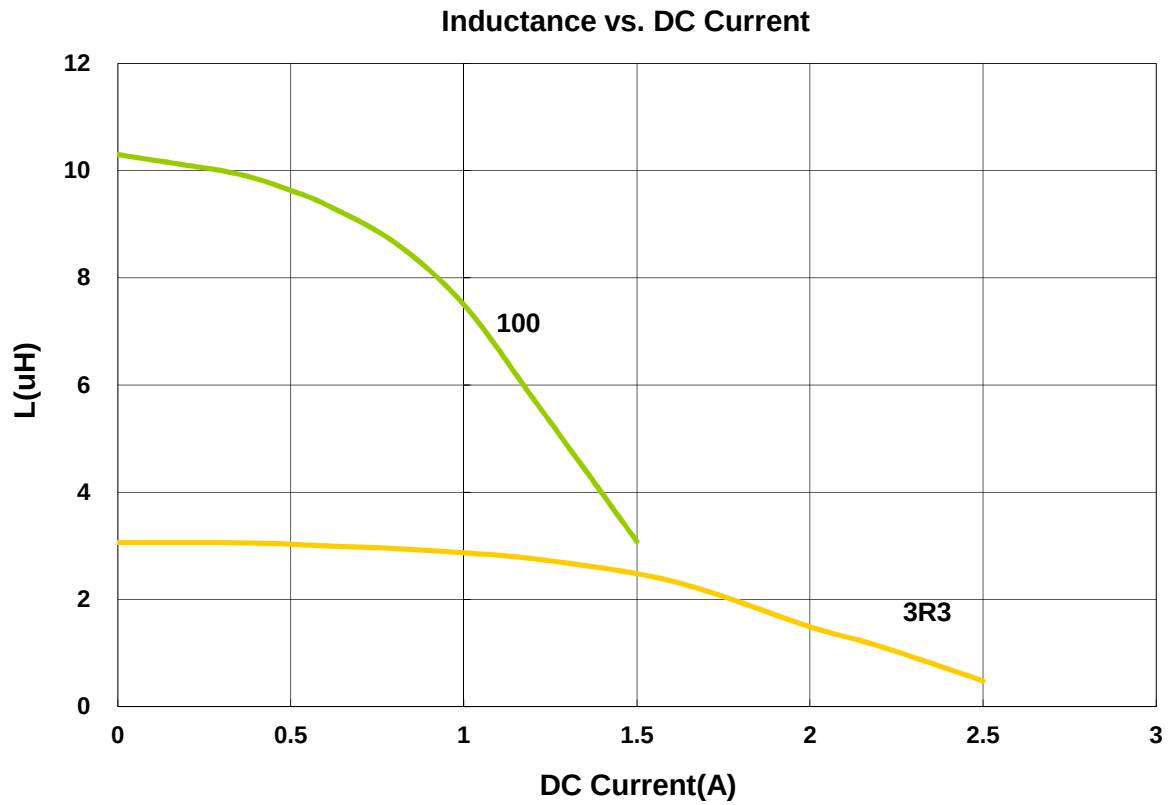
| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | Marking |
|--------------------|--------------------|------------|----------------|----------------------|----------------------|-------------------|---------|
| 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=±20% / T=±30%

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

**AWVF00404012 Type**

**■ Characteristics Graph**



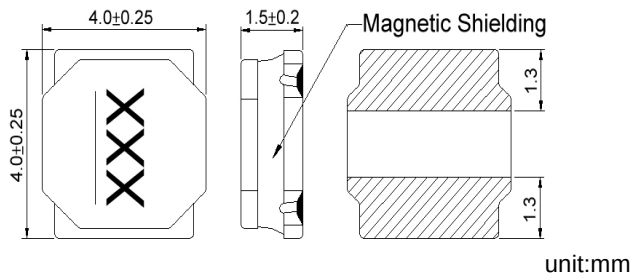
Please be sure to request approval specifications that provide further details of the products. Kindly note that the content of these specifications are subject to change or may be discontinued without prior notice. This product may not be designed/used in medical or high risk applications without Chilisin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

## Power Inductor AWVF Series

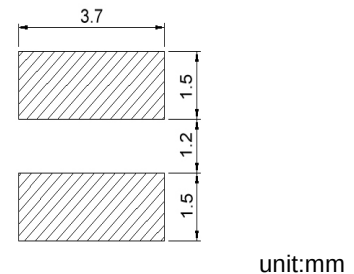
Automotive  
AEC-Q200

### AWVF00404015 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

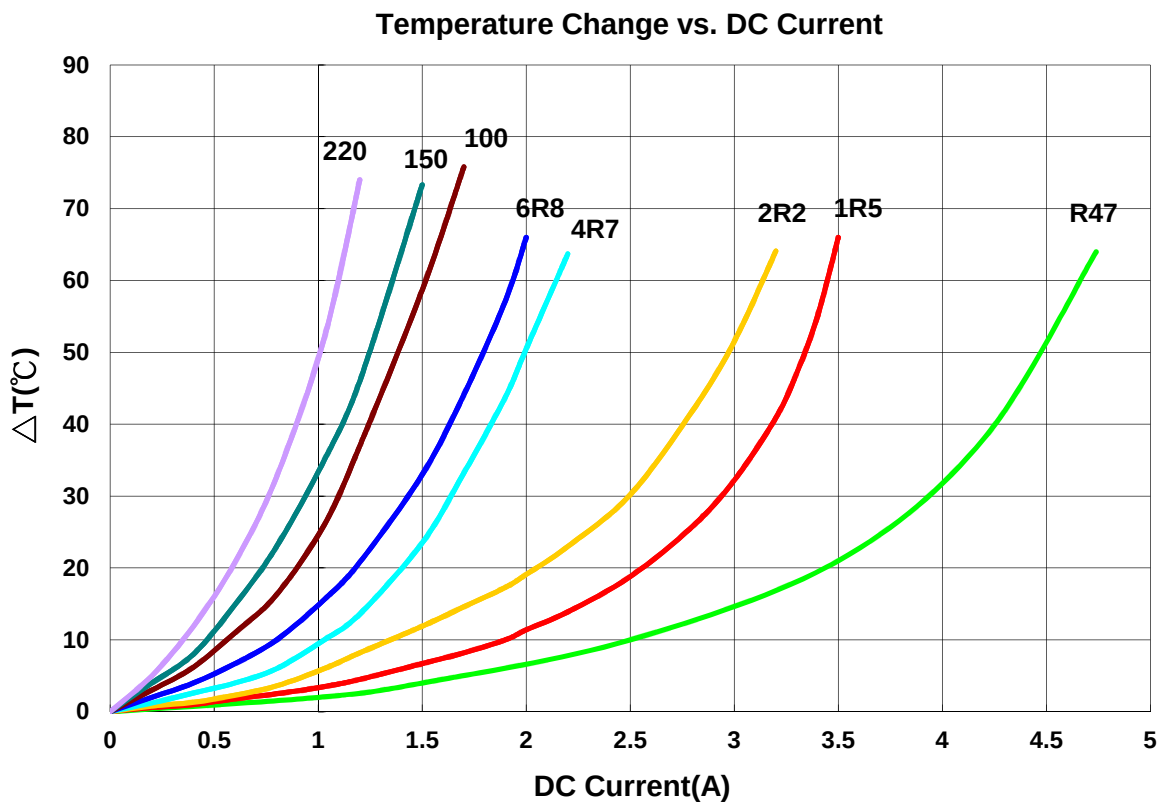
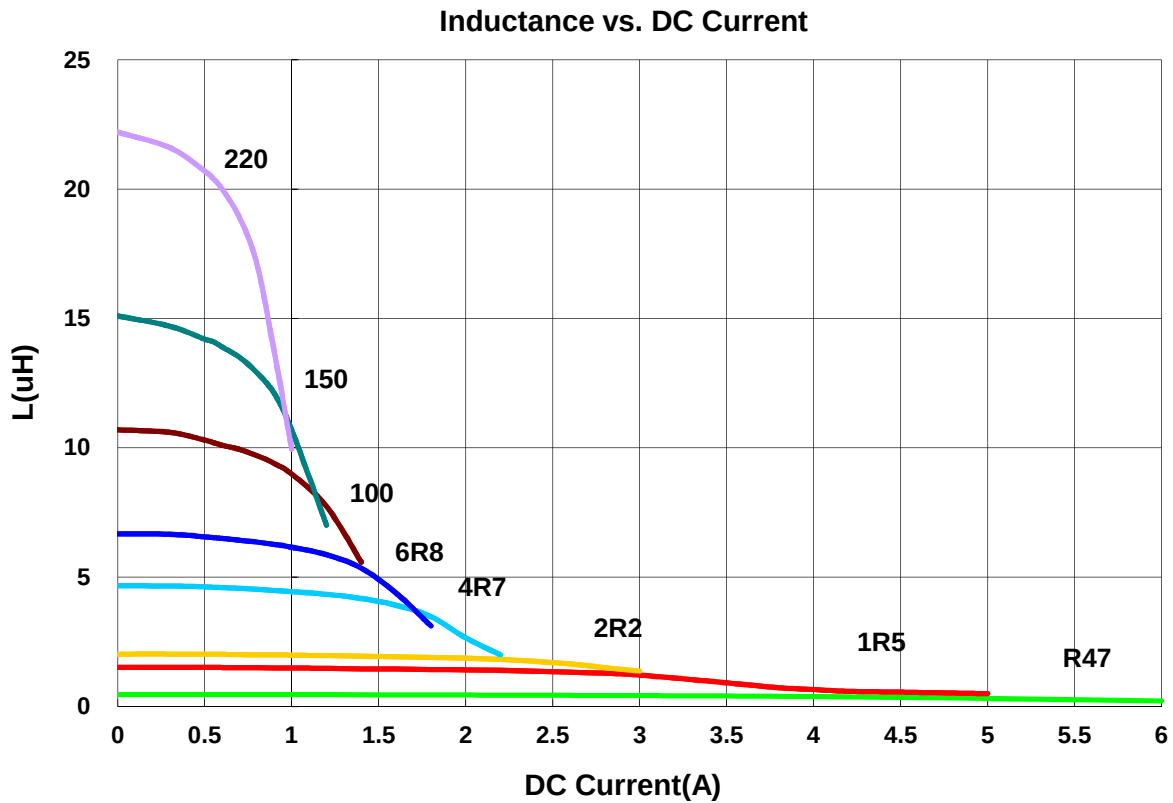
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

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



**AWVF00404015 Type**

**Characteristics Graph**



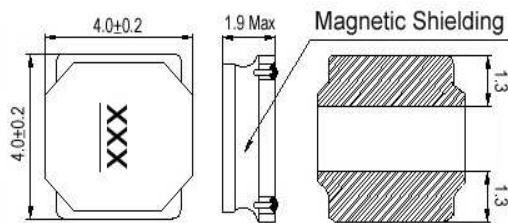
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## Power Inductor AWVF Series

Automotive  
AEC-Q200

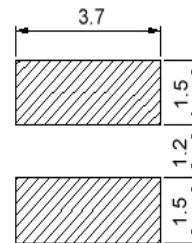
### AWVF00404018 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

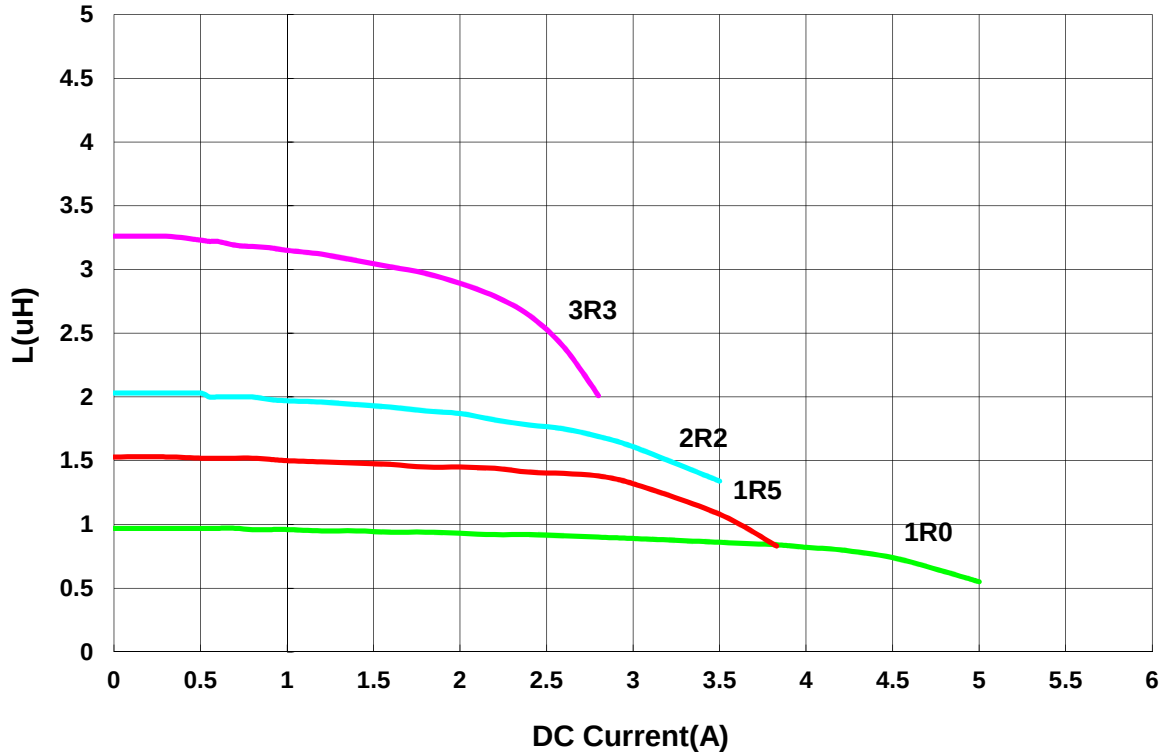
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

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

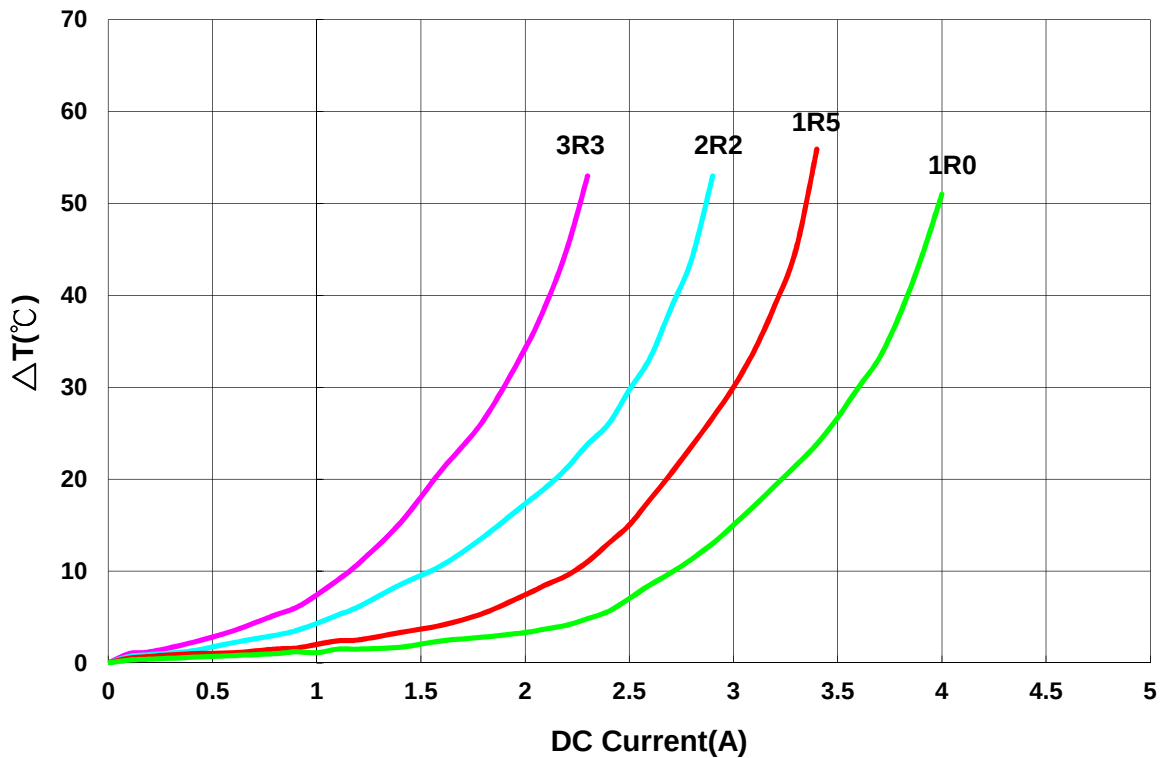
**AWVF00404018 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



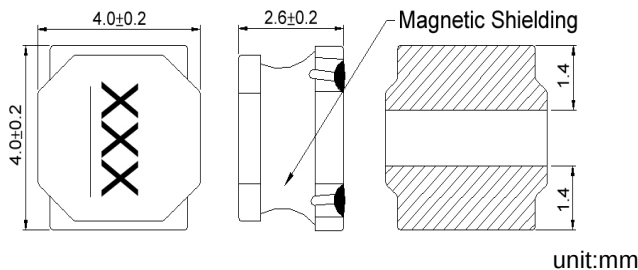
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## Power Inductor AWVF Series

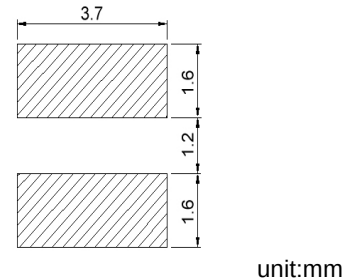
Automotive  
AEC-Q200

### AWVF00404026 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

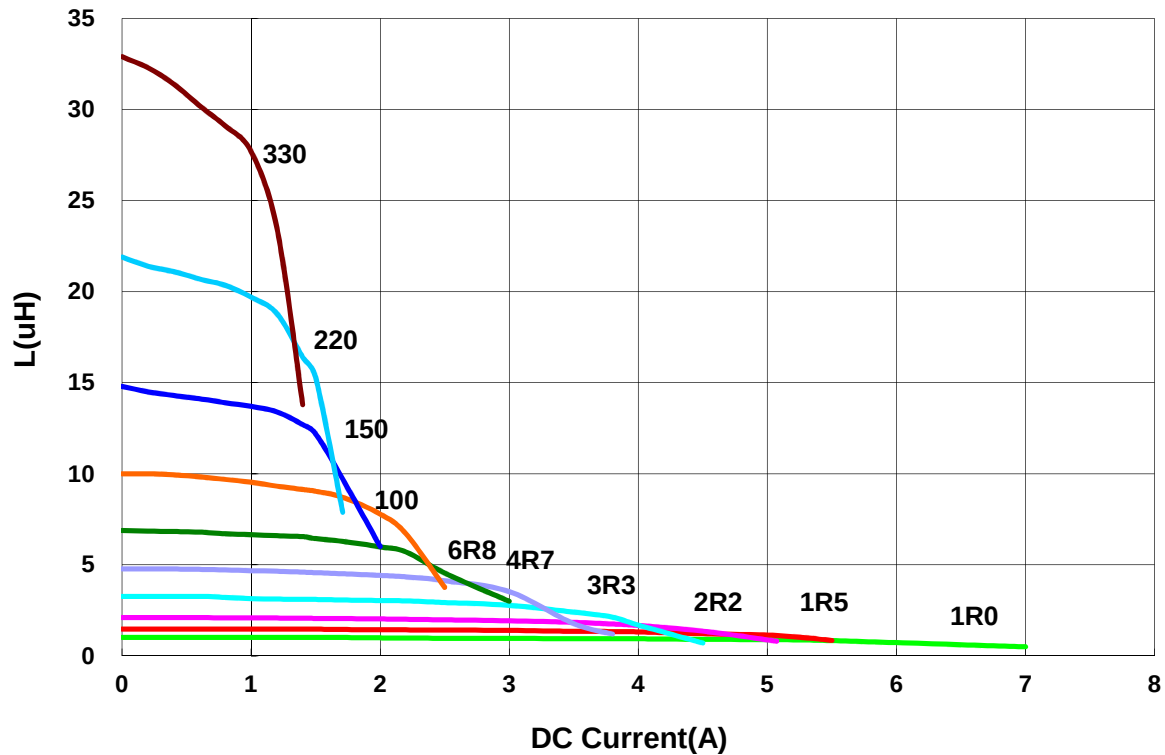
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

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

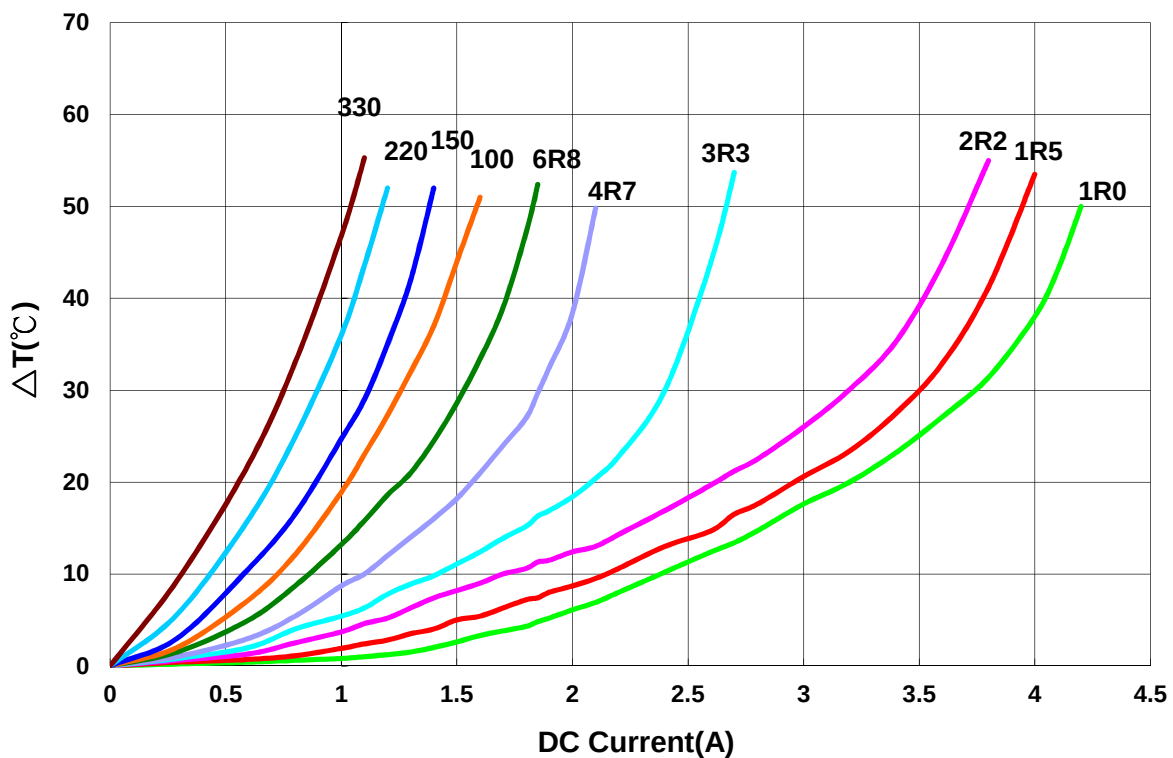
**AWVF00404026 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



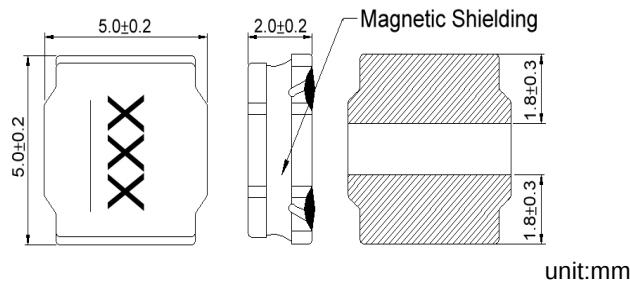
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## Power Inductor AWVF Series

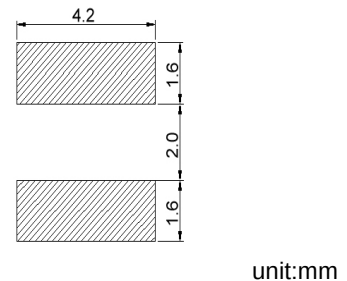
Automotive  
AEC-Q200

### AWVF00505020 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

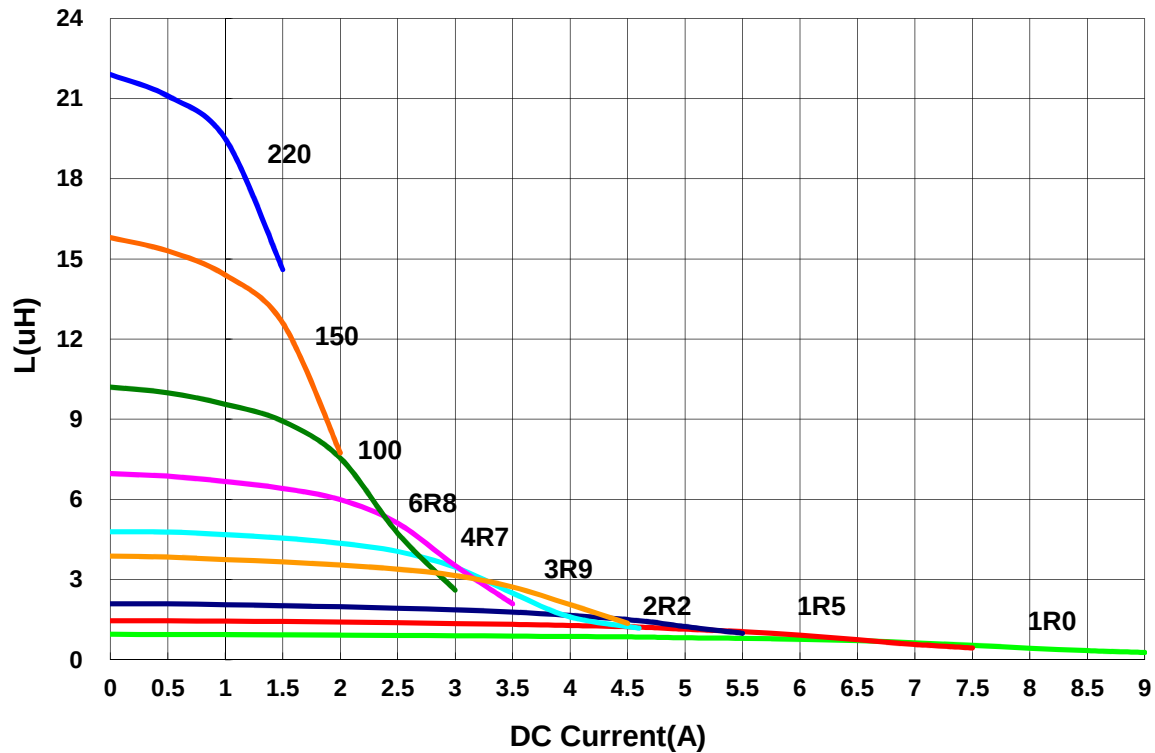
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

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

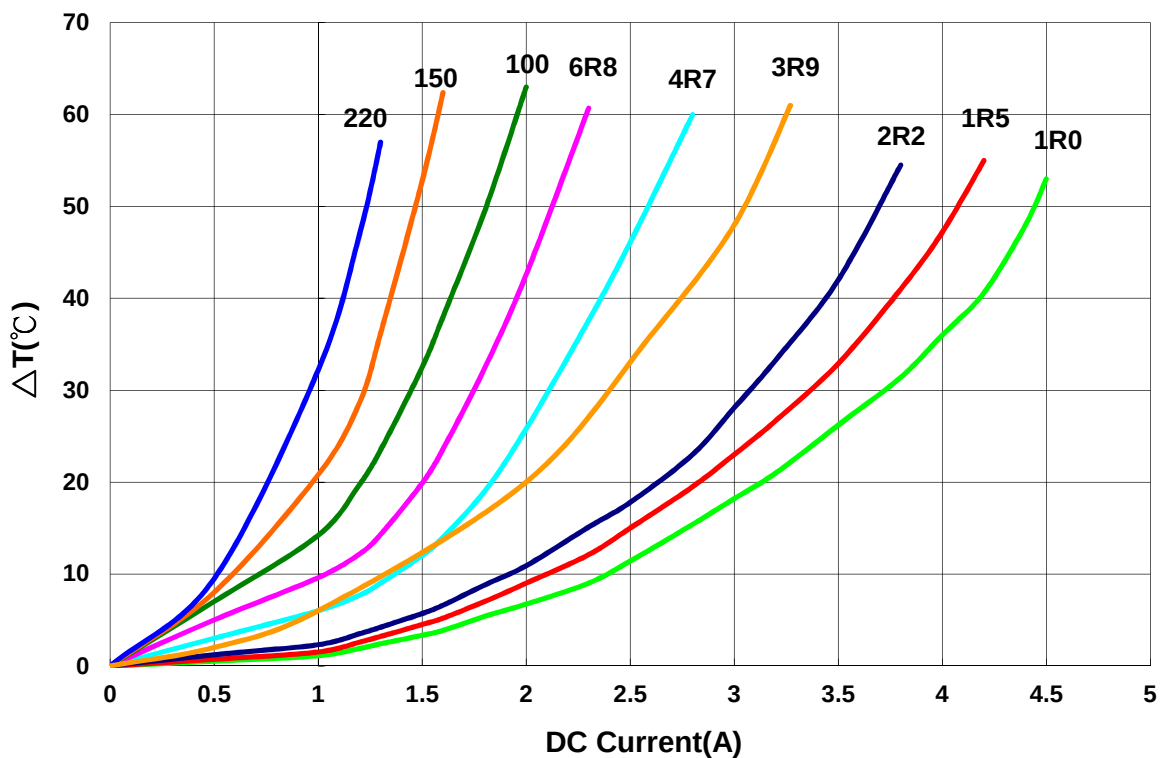
**AWVF00505020 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



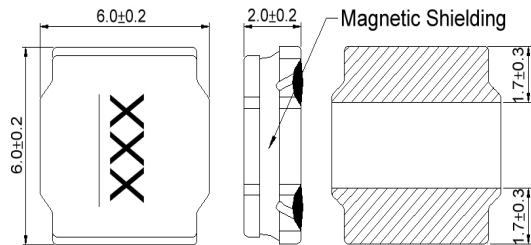
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# Power Inductor AWVF Series

**Automotive**  
**AEC-Q200**

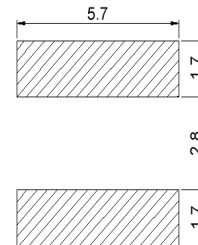
## AWVF00606020 Type

### ■ Dimensions



unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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%**

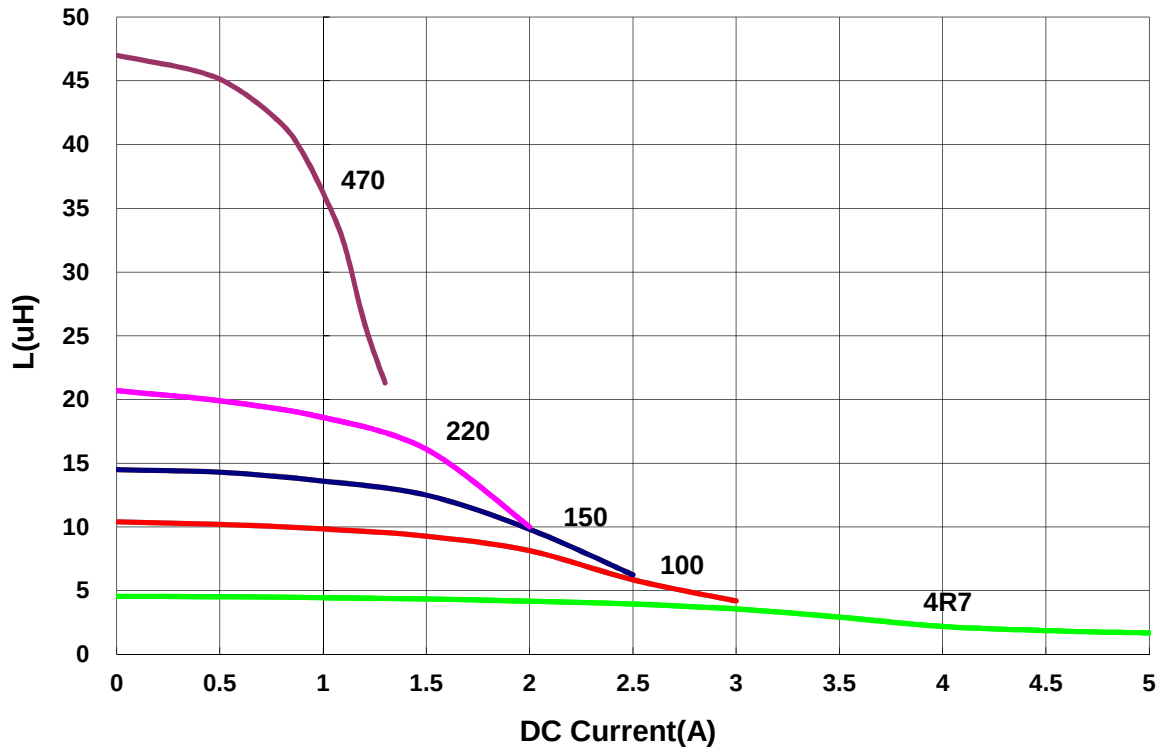
- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
  - L: Agilent HP4284A+Agilent HP42841A
  - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
  - Isat: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



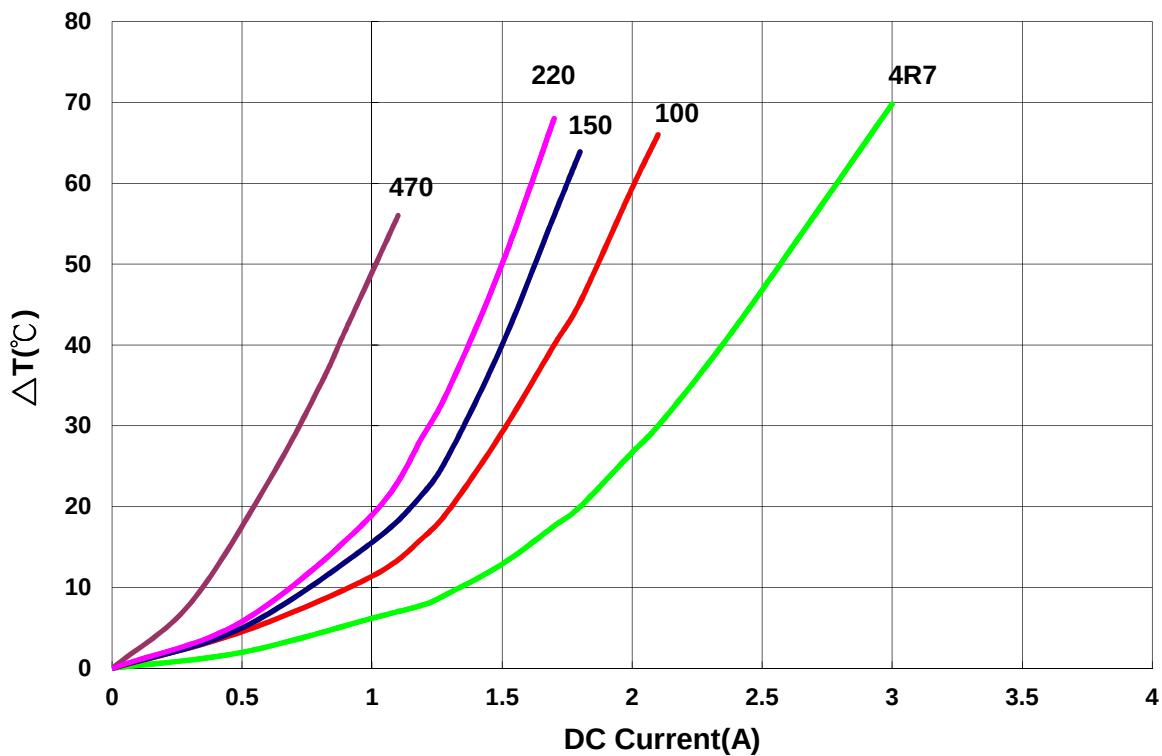
**AWVF00606020 Type**

**■ Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



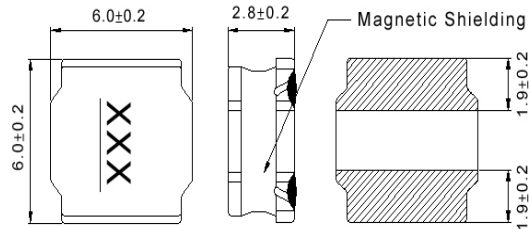
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# Power Inductor AWVF Series

Automotive  
AEC-Q200

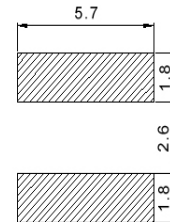
## AWVF00606028 Type

### ■ Dimensions



unit:mm

### ■ Recommended Land Pattern



unit:mm

### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

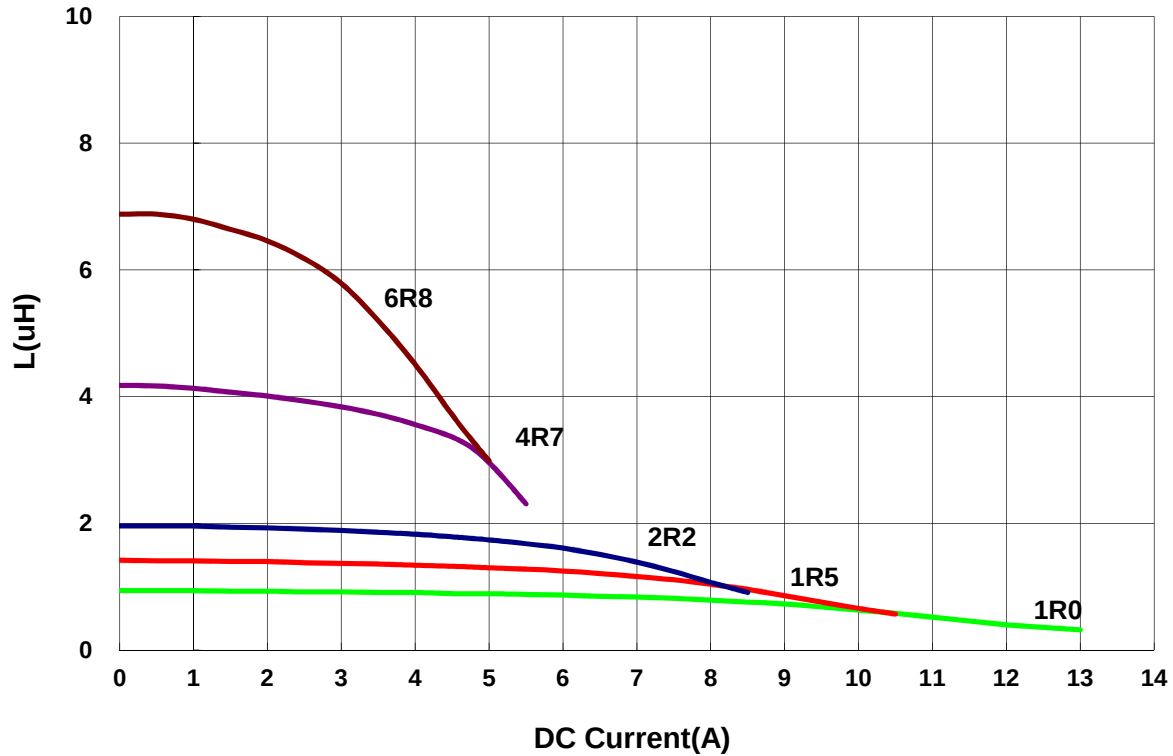
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C
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: Agilent HP4284A+Agilent HP42841A  
RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent  
Isat: Agilent HP4284A  
Irms: Agilent HP4284A

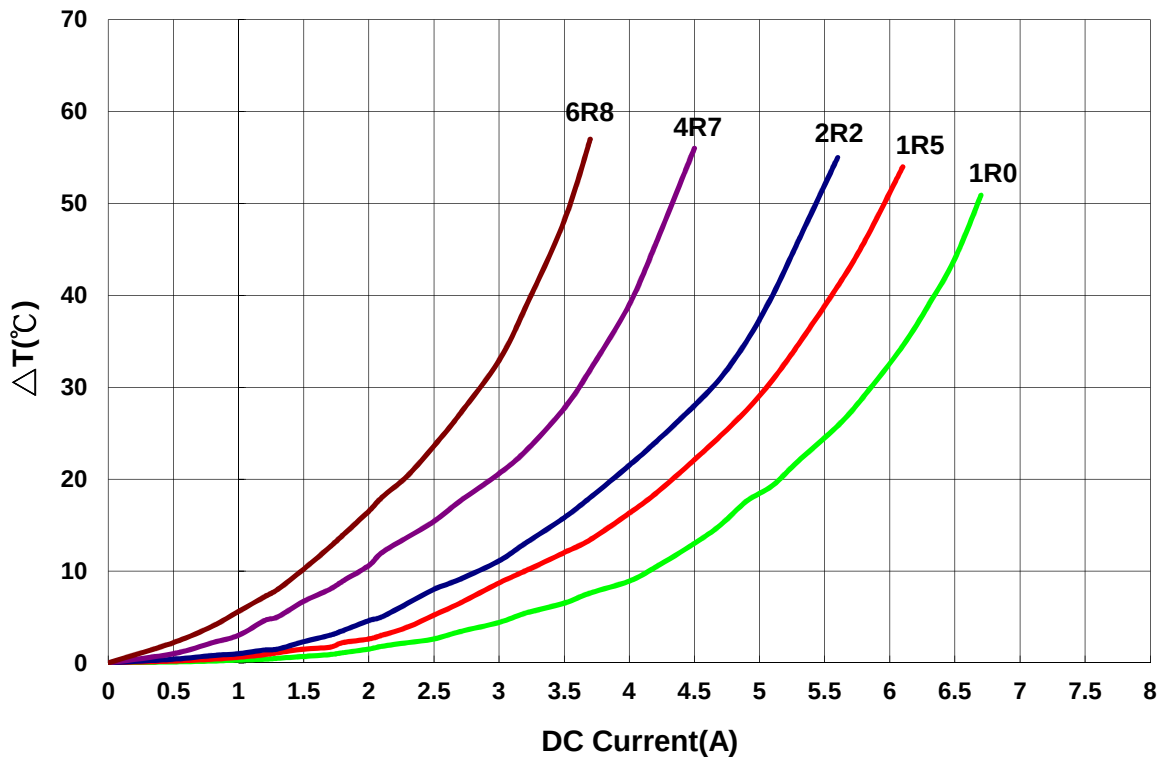
**AWVF00606028 Type**

**Characteristics Graph**

**Inductance vs. DC Current**



**Temperature Change vs. DC Current**



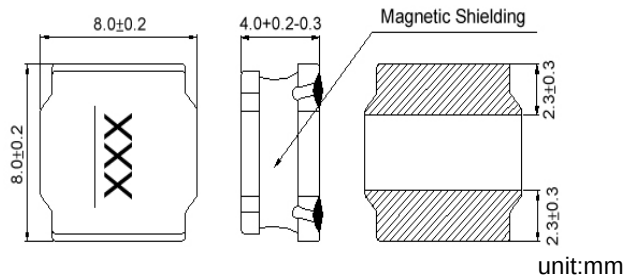
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## Power Inductor AWVF Series

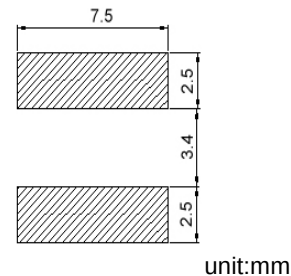
Automotive  
AEC-Q200

### AWVF00808040 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH) | Test Freq. | RDC<br>(Ω)±30% | Isat(A)<br>Typ.(Max) | Irms(A)<br>Typ.(Max) | Tolerance<br>(±%) | 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     |

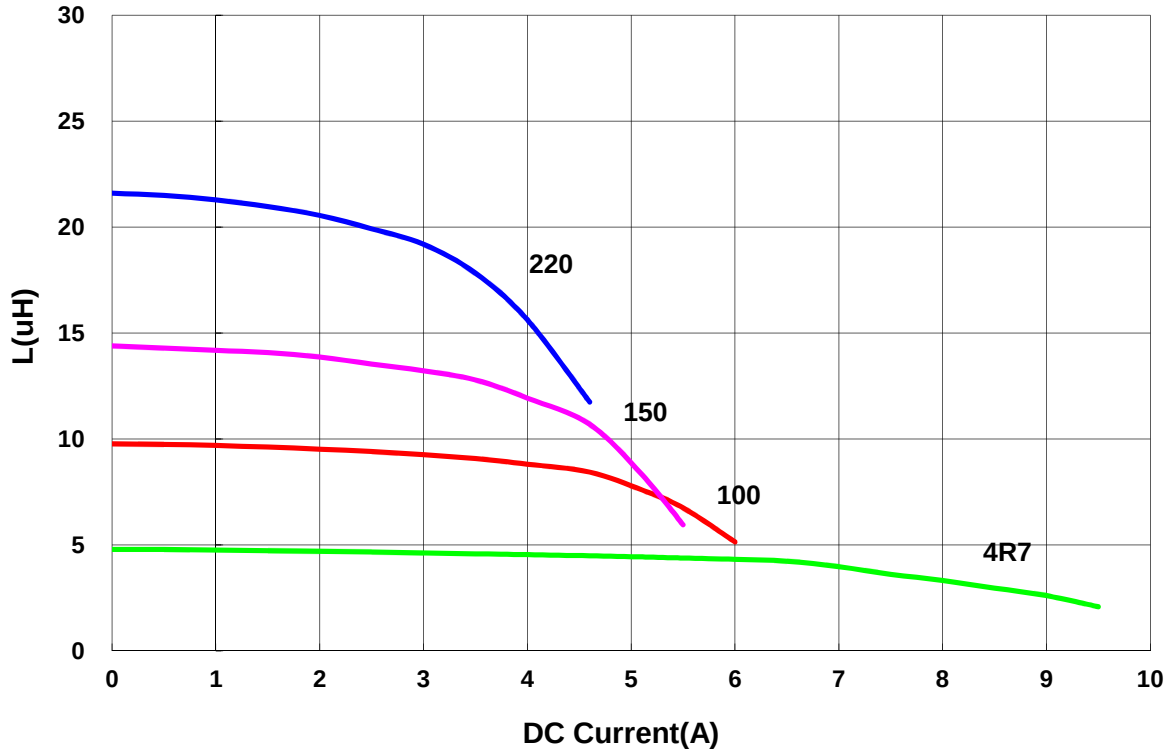
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

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

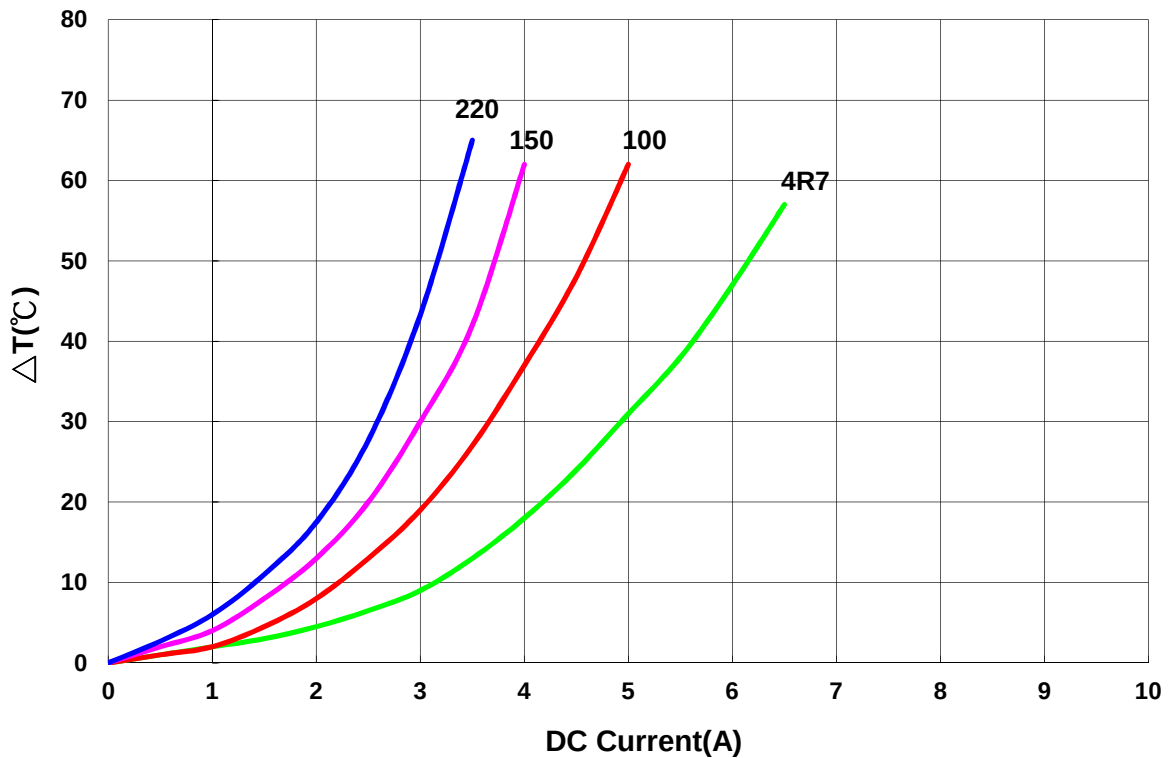
**AWVF00808040 Type**

**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.

## Power Inductor AWVF Series

Automotive  
AEC-Q200

### ■ Packaging

#### Tape Dimensions

Figure 1

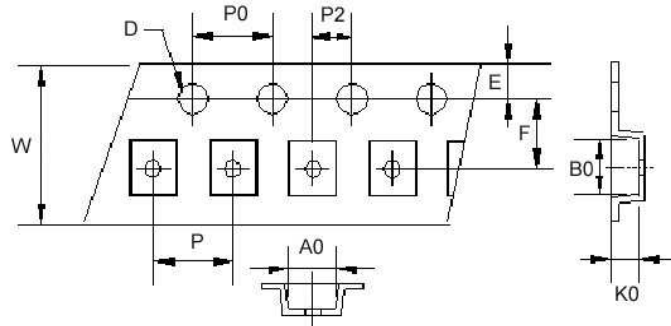
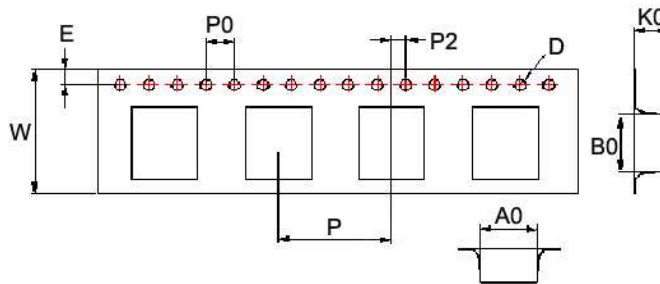


Figure 2



#### Reel Dimensions

Figure 1

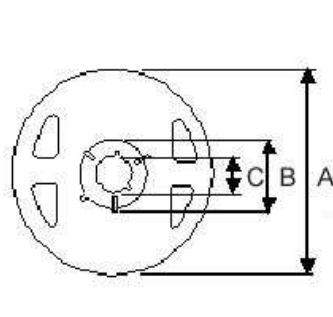
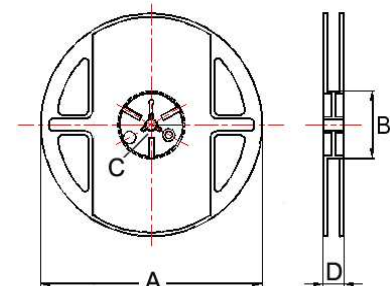


Figure 2



#### Dimensions in mm

| TYPE         | Fig | Tape Dimensions |      |      |      |      |     |    |    |    |    | Reel Dimensions |     |    |    |     | Quantity   |
|--------------|-----|-----------------|------|------|------|------|-----|----|----|----|----|-----------------|-----|----|----|-----|------------|
|              |     | A0              | B0   | K0   | D    | E    | F   | W  | P  | P0 | P2 | A               | B   | C  | D  | E   | PCS / Reel |
| AWVF00201612 | 1   | 1.9             | 2.2  | 1.3  | 1.55 | 1.75 | 3.5 | 8  | 4  | 4  | 2  | 180             | 60  | 13 | 14 | 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 | 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 | 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 | 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 | 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 | 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 | -   | 1000       |
| AWVF00404015 | 2   | 4.25            | 4.25 | 1.7  | 1.55 | 1.75 | 5.5 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13 | -   | 1000       |
| AWVF00404018 | 2   | 4.25            | 4.25 | 2.10 | 1.55 | 1.75 | 5.5 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13 | -   | 800        |
| AWVF00404026 | 2   | 4.25            | 4.25 | 3    | 1.55 | 1.75 | 5.5 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13 | -   | 500        |
| AWVF00505020 | 2   | 5.25            | 5.25 | 2.2  | 1.55 | 1.75 | 5.5 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13 | -   | 2000       |
| AWVF00606020 | 2   | 6.25            | 6.25 | 2.2  | 1.55 | 1.75 | 5.5 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13 | -   | 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       |

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