

**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



**Part Numbering**

| A     | PSC         | 00           | 131380               | 100             | M         | 00            |
|-------|-------------|--------------|----------------------|-----------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code (mm) | Inductance (uH) | Tolerance | Internal Code |
|       |             |              | 030316 3.2x3.2x1.55  | R47 0.5         | M ±20%    |               |
|       |             |              | 040418 4.0x4.0x1.8   | 2R2 2.2         | T ±30%    |               |
|       |             |              | 040430 4.0x4.0x3.0   | 101 100         |           |               |
|       |             |              | 050520 4.7x4.7x2.0   |                 |           |               |
|       |             |              | 050530 4.7x4.7x3.0   |                 |           |               |
|       |             |              | 050540 4.7x4.7x4.0   |                 |           |               |
|       |             |              | 060620 5.7x5.7x2.0   |                 |           |               |
|       |             |              | 060630 5.7x5.7x3.0   |                 |           |               |
|       |             |              | 070730 6.7x6.7x3.0   |                 |           |               |
|       |             |              | 070740 7.0x7.0x4.0   |                 |           |               |
|       |             |              | 101131 10.3x10.5x3.1 |                 |           |               |
|       |             |              | 101140 10.3x10.5x4.0 |                 |           |               |
|       |             |              | 101151 10.3x10.5x5.1 |                 |           |               |
|       |             |              | 080846 7.5x7.5x4.6   |                 |           |               |
|       |             |              | 131345 12.5x12.5x4.5 |                 |           |               |
|       |             |              | 131360 12.5x12.5x6.0 |                 |           |               |
|       |             |              | 131380 12.5x12.5x8.0 |                 |           |               |

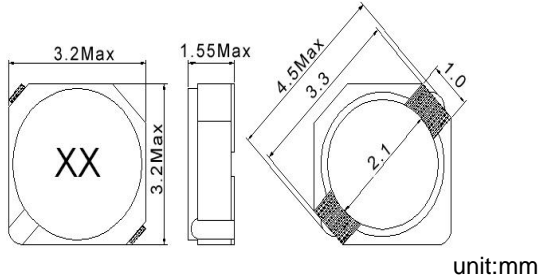
This specification applies to Power Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

**Power Inductor APSC Series**

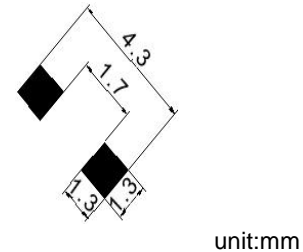
**Automotive  
AEC-Q200**

**APSC00030316 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) Max(Typ) | Irms (A)Typ. | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|-------------------|--------------|----------------|---------|
| APSC00030316R47□00 | 0.47            | 100 kHz,1 V | 0.04        | 2(2.8)            |              | 30             | AO      |
| APSC000303161R5□00 | 1.5             | 100 kHz,1 V | 0.063       | 1.4(1.8)          | 2            | 30             | BF      |
| APSC000303161R8□00 | 1.8             | 100 kHz,1 V | 0.075       | 1.3(1.7)          | 1.8          | 30             | BI      |
| APSC000303162R2□00 | 2.2             | 100 kHz,1 V | 0.094       | 1.2(1.6)          | 1.6          | 30             | CC      |
| APSC000303162R7□00 | 2.7             | 100 kHz,1 V | 0.106       | 1.1(1.4)          | 1.4          | 30             | CH      |
| APSC000303163R3□00 | 3.3             | 100 kHz,1 V | 0.125       | 0.95(1.2)         | 1.24         | 30             | DD      |
| APSC000303163R9□00 | 3.9             | 100 kHz,1 V | 0.138       | 0.92(1.1)         | 1.12         | 30             | DJ      |
| APSC000303164R1□00 | 4.1             | 100 kHz,1 V | 0.169       | 0.8(1)            | 1            | 30             | EA      |
| APSC000303164R7□00 | 4.7             | 100 kHz,1 V | 0.169       | 0.8(1)            | 1            | 30             | EH      |
| APSC000303165R6□00 | 5.6             | 100 kHz,1 V | 0.188       | 0.76(0.95)        | 0.98         | 30             | FG      |
| APSC000303166R8□00 | 6.8             | 100 kHz,1 V | 0.213       | 0.71(0.88)        | 0.92         | 30             | GI      |
| APSC000303168R2□00 | 8.2             | 100 kHz,1 V | 0.281       | 0.64(0.8)         | 0.8          | 30             | IC      |
| APSC00030316100□00 | 10              | 100 kHz,1 V | 0.294       | 0.57(0.72)        | 0.76         | 20,30          | KA      |
| APSC00030316120□00 | 12              | 100 kHz,1 V | 0.394       | 0.52(0.65)        | 0.64         | 20,30          | QA      |

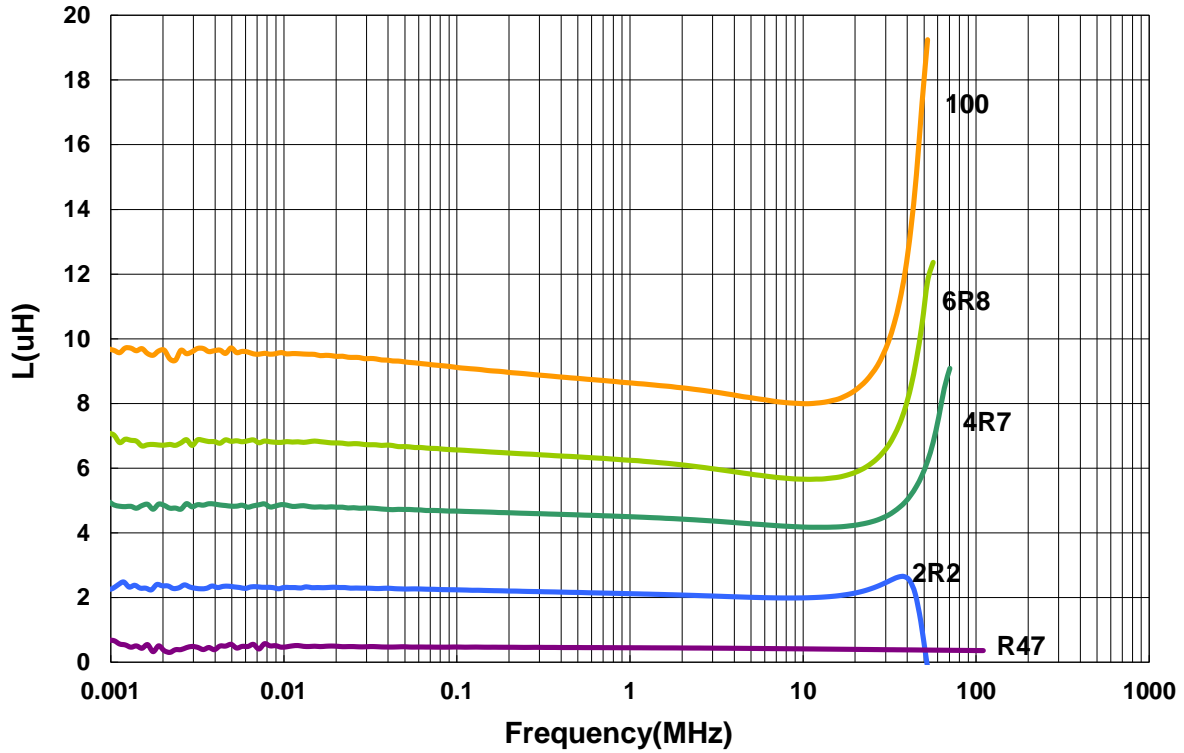
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Rated Current: Inductance drop = 35% typ.
3. I<sub>rms</sub> for a 40°C temperature rise from 25°C ambient with current
4. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate Current: HP4284+42841A or WK3260B+WK3265B

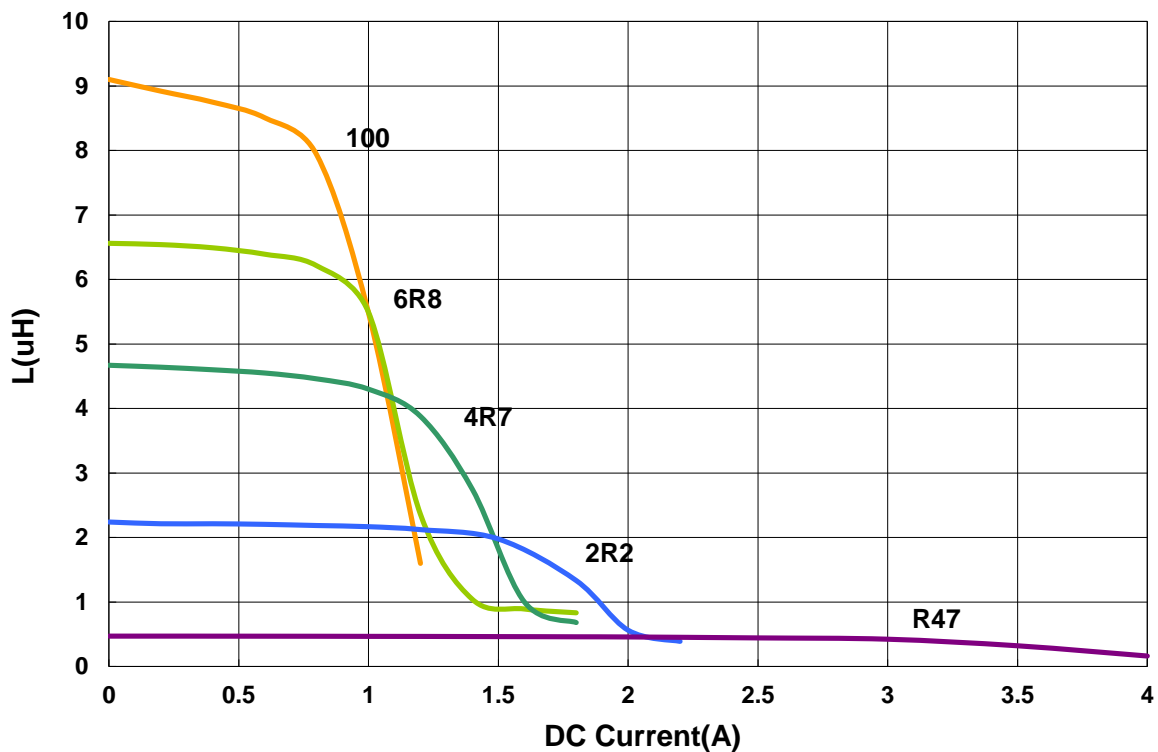
APSC00030316 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

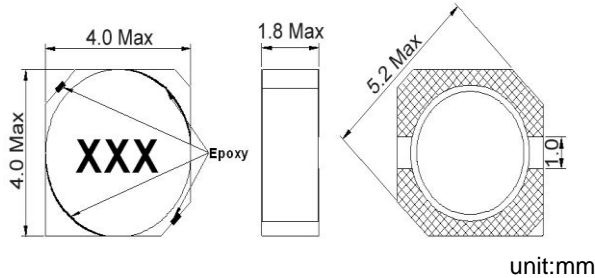


**Power Inductor APSC Series**

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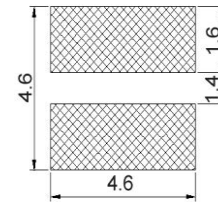
**APSC00040418 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.            | Inductance (uH) | Test Freq.    | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|---------------------|-----------------|---------------|-------------|------------------|----------------|---------|
| APSC0000404181R0□S0 | 1               | 100 kHz,0.1 V | 0.04        | 1.35(1.7)        | 30             | 1R0     |
| APSC0000404181R5□S0 | 1.5             | 100 kHz,0.1 V | 0.052       | 1.25(1.6)        | 30             | 1R5     |
| APSC0000404182R2□S0 | 2.2             | 100 kHz,0.1 V | 0.072       | 1.0(1.3)         | 30             | 2R2     |
| APSC0000404183R3□S0 | 3.3             | 100 kHz,0.1 V | 0.085       | 0.88(1.1)        | 30             | 3R3     |
| APSC0000404183R6□S0 | 3.6             | 100 kHz,0.1 V | 0.09        | 0.74(0.93)       | 30             | 3R6     |
| APSC0000404184R7□S0 | 4.7             | 100 kHz,0.1 V | 0.105       | 0.72(0.9)        | 30             | 4R7     |
| APSC0000404186R8□S0 | 6.8             | 100 kHz,0.1 V | 0.17        | 0.61(0.74)       | 30             | 6R8     |
| APSC000040418100□S0 | 10              | 100 kHz,0.1 V | 0.21        | 0.55(0.6)        | 20,30          | 100     |
| APSC000040418150□S0 | 15              | 100 kHz,0.1 V | 0.295       | 0.45(0.52)       | 20,30          | 150     |
| APSC000040418220□S0 | 22              | 100 kHz,0.1 V | 0.43        | 0.32(0.4)        | 20,30          | 220     |
| APSC000040418270□S0 | 27              | 100 kHz,0.1 V | 0.62        | 0.3(0.37)        | 30             | 270     |
| APSC000040418330□S0 | 33              | 100 kHz,0.1 V | 0.675       | 0.26(0.32)       | 30             | 330     |
| APSC000040418680□S0 | 68              | 100 kHz,0.1 V | 1.7         | 0.16(0.21)       | 30             | 680     |

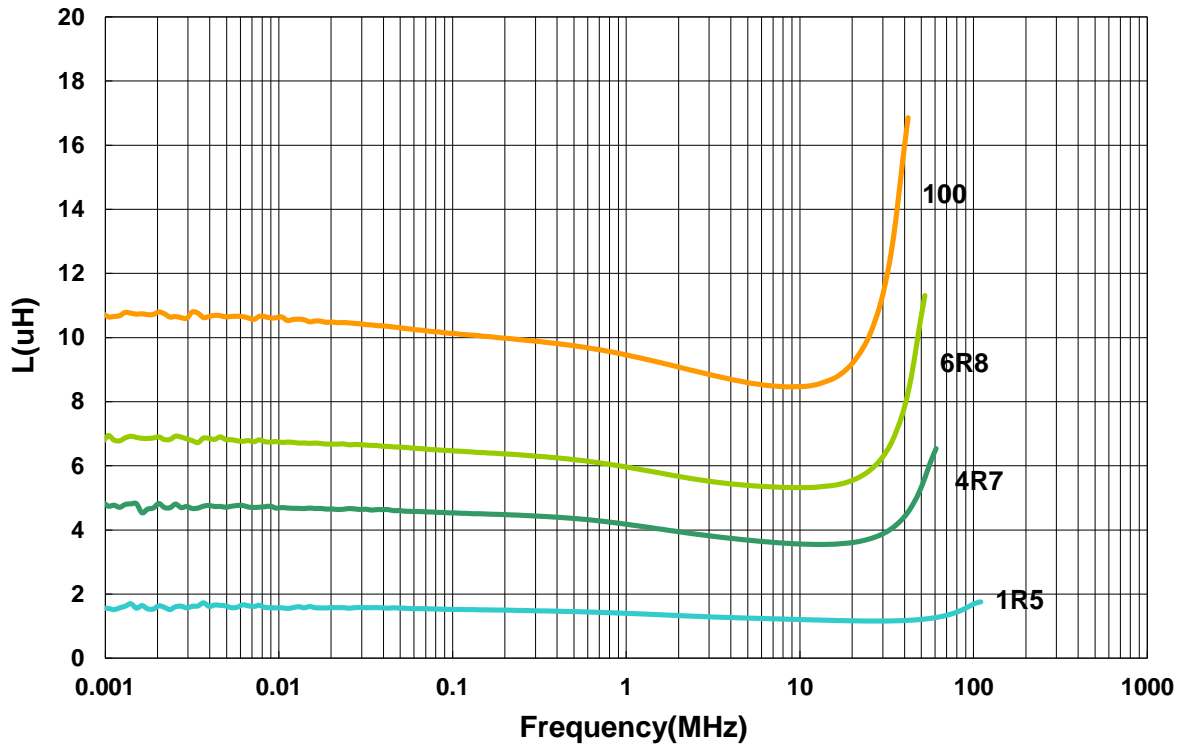
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B

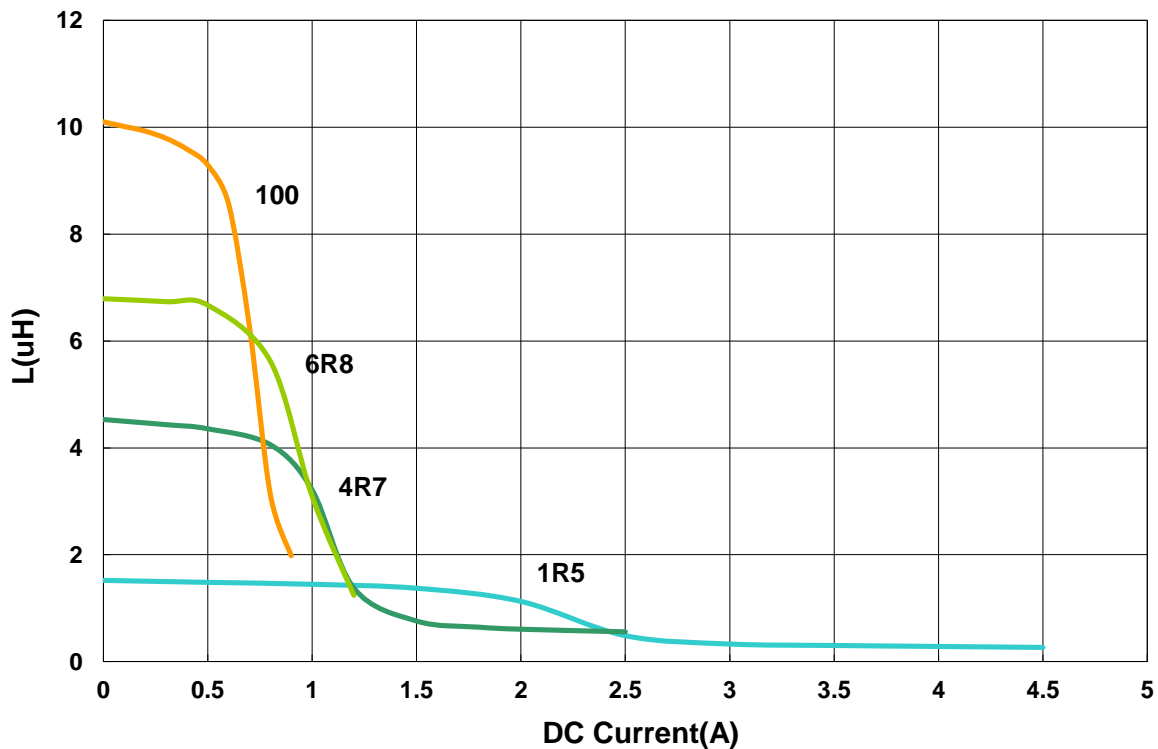
APSC00040418 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

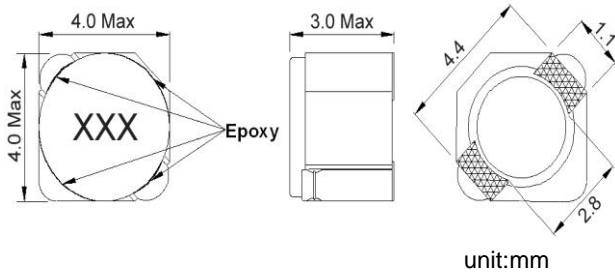


**Power Inductor APSC Series**

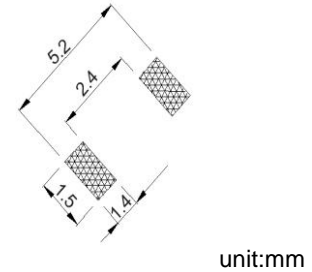
**Automotive  
AEC-Q200**

**APSC00040430 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.   | RDC (Ω)Max. | Isat (A) Max(Typ) | Irms (A)Typ. | Tolerance (±%) | Marking |
|--------------------|-----------------|--------------|-------------|-------------------|--------------|----------------|---------|
| APSC000404301R0□00 | 1.0             | 100 kHz, 1 V | 0.045       | 2.8(4.1)          | 2.50         | 30             | 1R0     |
| APSC000404303R3□00 | 3.3             | 100 kHz, 1 V | 0.0721      | 2(2.5)            | 1.85         | 30             | 3R3     |
| APSC000404304R7□00 | 4.7             | 100 kHz, 1 V | 0.0883      | 1.65(1.9)         | 1.62         | 30             | 4R7     |
| APSC000404306R8□00 | 6.8             | 100 kHz, 1 V | 0.119       | 1.24(1.6)         | 1.32         | 30             | 6R8     |
| APSC00040430100□00 | 10              | 100 kHz, 1 V | 0.145       | 1.05(1.4)         | 1.18         | 30             | 100     |
| APSC00040430150□00 | 15              | 100 kHz, 1 V | 0.213       | 0.9(1.1)          | 1.02         | 30             | 150     |
| APSC00040430220□00 | 22              | 100 kHz, 1 V | 0.335       | 0.76(0.95)        | 0.74         | 30             | 220     |
| APSC00040430330□00 | 33              | 100 kHz, 1 V | 0.481       | 0.58(0.74)        | 0.63         | 30             | 330     |
| APSC00040430470□00 | 47              | 100 kHz, 1 V | 0.599       | 0.48(0.6)         | 0.56         | 20,30          | 470     |

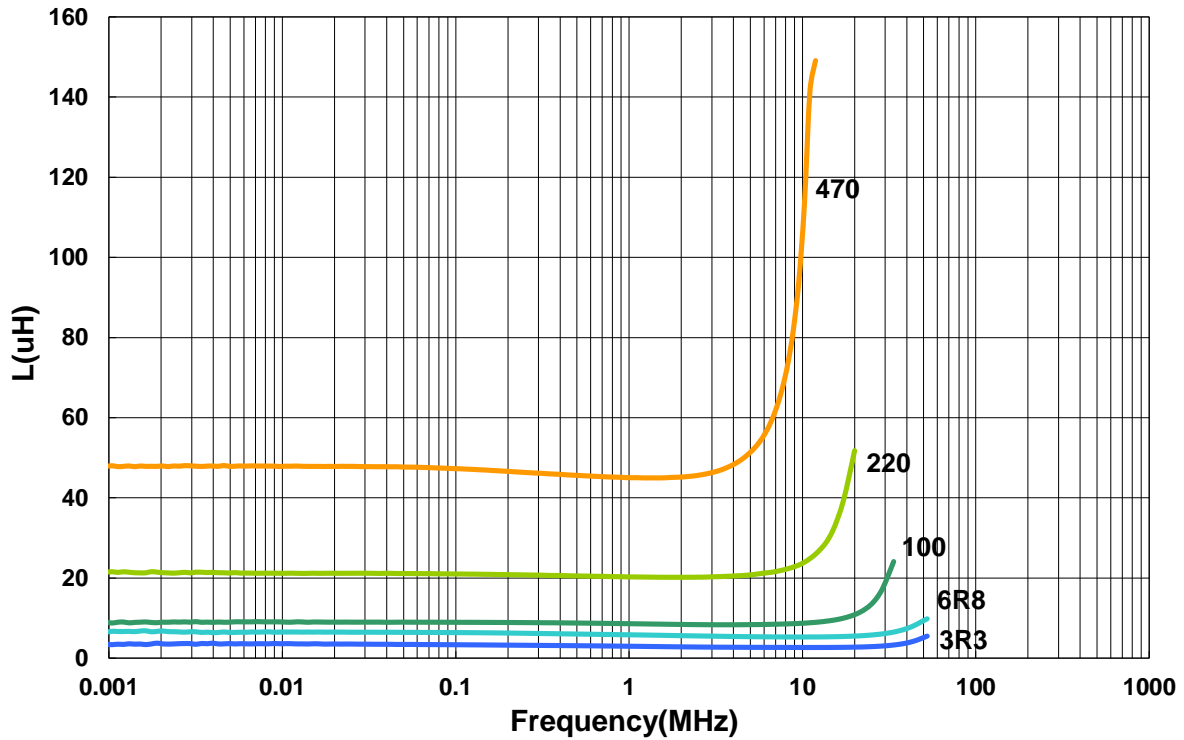
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Rate current: Inductance drop = 35% typ.
3. I rms for a 40°C temprature rise from 25°C ambient.
4. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B  
 I rms:HP4284A+HP42841A or WK3260B+WK3265B

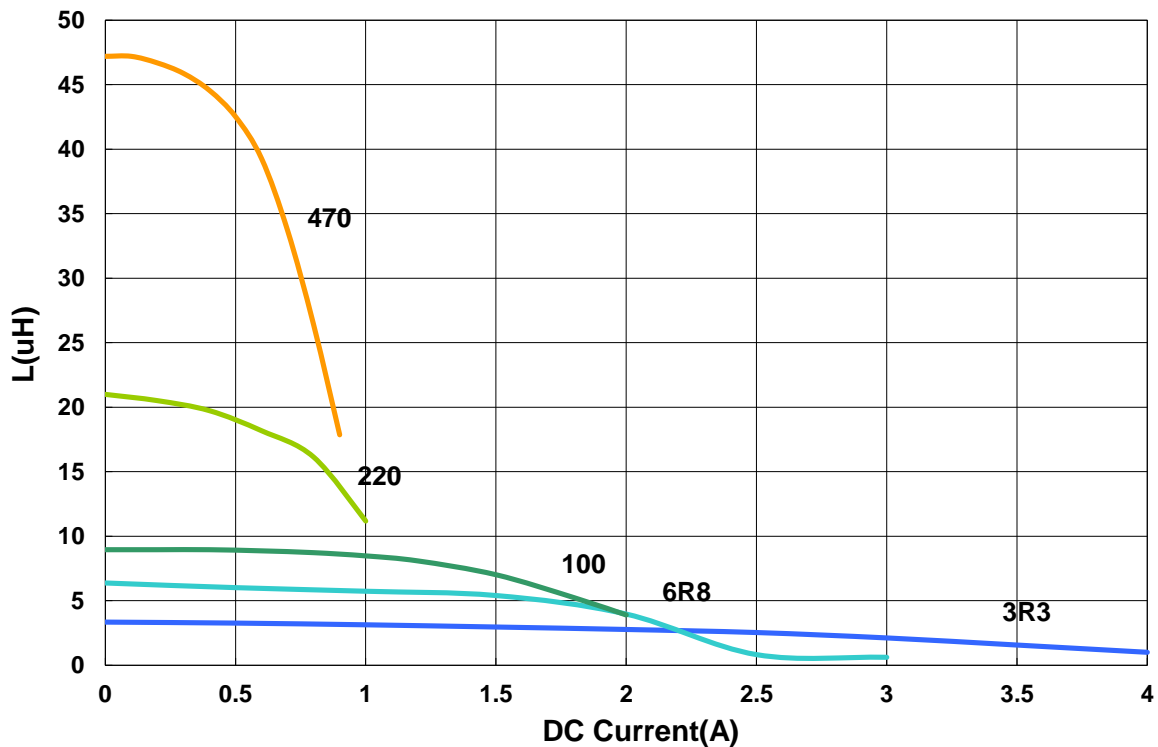
APSC00040430 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

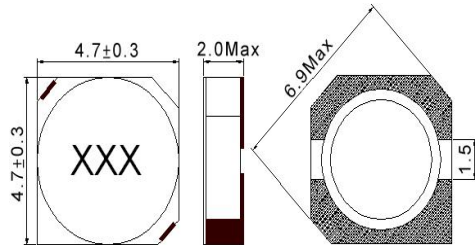


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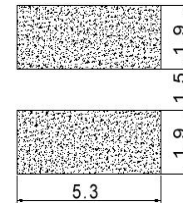
**APSC00050520 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.   | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|--------------|-------------|------------------|----------------|---------|
| APSC000505201R0□S0 | 1               | 7.96 MHz,1 V | 0.045       | 1.72(2.5)        | 30             | 1R0     |
| APSC000505201R5□S0 | 1.5             | 7.96 MHz,1 V | 0.060       | 1.5(1.8)         | 30             | 1R5     |
| APSC000505201R8□S0 | 1.8             | 7.96 MHz,1 V | 0.070       | 1.35(1.7)        | 30             | 1R8     |
| APSC000505202R2□S0 | 2.2             | 7.96 MHz,1 V | 0.075       | 1.3(1.6)         | 30             | 2R2     |
| APSC000505202R7□S0 | 2.7             | 7.96 MHz,1 V | 0.105       | 1.2(1.5)         | 30             | 2R7     |
| APSC000505203R3□S0 | 3.3             | 7.96 MHz,1 V | 0.110       | 1.04(1.3)        | 30             | 3R3     |
| APSC000505203R9□S0 | 3.9             | 7.96 MHz,1 V | 0.155       | 0.88(1.2)        | 30             | 3R9     |
| APSC000505204R7□S0 | 4.7             | 7.96 MHz,1 V | 0.162       | 0.84(1.1)        | 30             | 4R7     |
| APSC000505205R6□S0 | 5.6             | 7.96 MHz,1 V | 0.170       | 0.8(1.0)         | 30             | 5R6     |
| APSC000505206R3□S0 | 6.3             | 7.96 MHz,1 V | 0.180       | 0.78(0.95)       | 30             | 6R3     |
| APSC000505206R8□S0 | 6.8             | 7.96 MHz,1 V | 0.200       | 0.76(0.85)       | 30             | 6R8     |
| APSC000505208R2□S0 | 8.2             | 7.96 MHz,1 V | 0.245       | 0.68(0.8)        | 30             | 8R2     |
| APSC00050520100□S0 | 10              | 100 kHz,1 V  | 0.280       | 0.61(0.75)       | 20,30          | 100     |
| APSC00050520120□S0 | 12              | 100 kHz,1 V  | 0.320       | 0.56(0.7)        | 30             | 120     |
| APSC00050520150□S0 | 15              | 100 kHz,1 V  | 0.360       | 0.5(0.65)        | 30             | 150     |
| APSC00050520180□S0 | 18              | 100 kHz,1 V  | 0.400       | 0.48(0.6)        | 30             | 180     |
| APSC00050520220□S0 | 22              | 100 kHz,1 V  | 0.480       | 0.41(0.55)       | 20,30          | 220     |
| APSC00050520270□S0 | 27              | 100 kHz,1 V  | 0.570       | 0.35(0.5)        | 30             | 270     |
| APSC00050520330□S0 | 33              | 100 kHz,1 V  | 0.694       | 0.32(0.45)       | 30             | 330     |
| APSC00050520390□S0 | 39              | 100 kHz,1 V  | 0.80        | 0.3(0.4)         | 30             | 390     |
| APSC00050520470□S0 | 47              | 100 kHz,1 V  | 0.95        | 0.28(0.38)       | 30             | 470     |
| APSC00050520560□S0 | 56              | 100 kHz,1 V  | 1.08        | 0.26(0.35)       | 30             | 560     |
| APSC00050520680□S0 | 68              | 100 kHz,1 V  | 1.30        | 0.24(0.34)       | 30             | 680     |
| APSC00050520101□S0 | 100             | 100 kHz,1 V  | 2           | 0.2(0.3)         | 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 35% from its value without current
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B



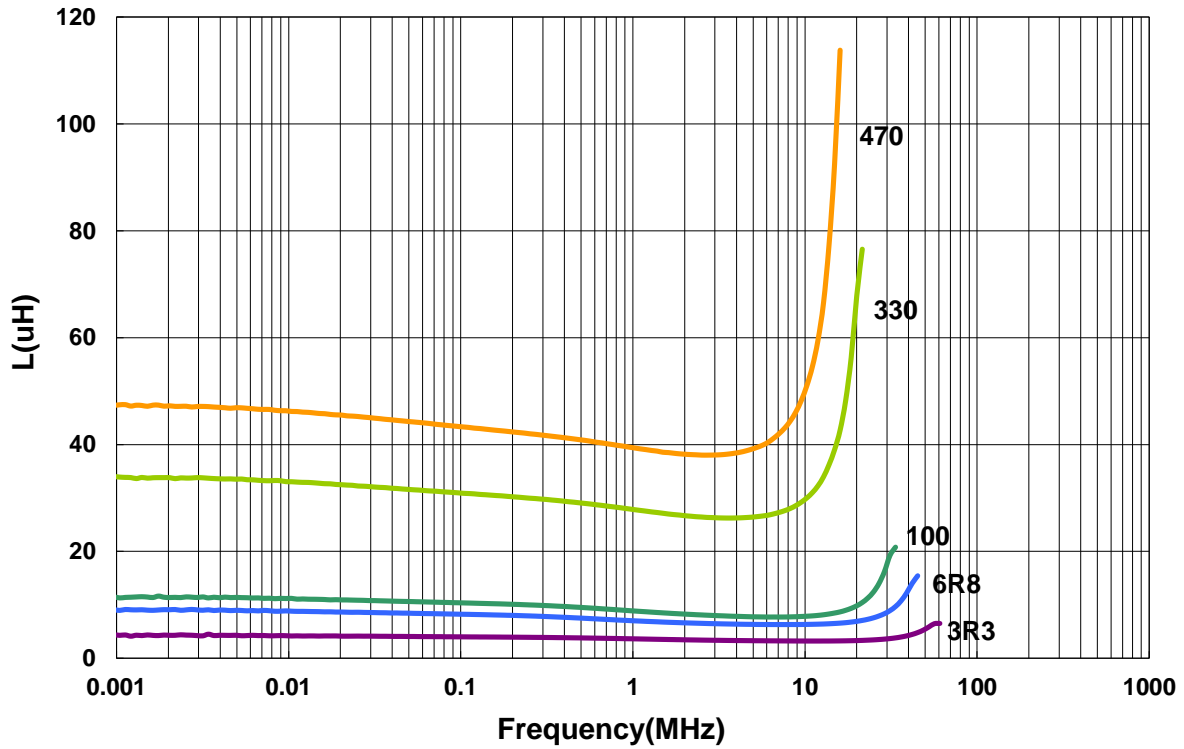
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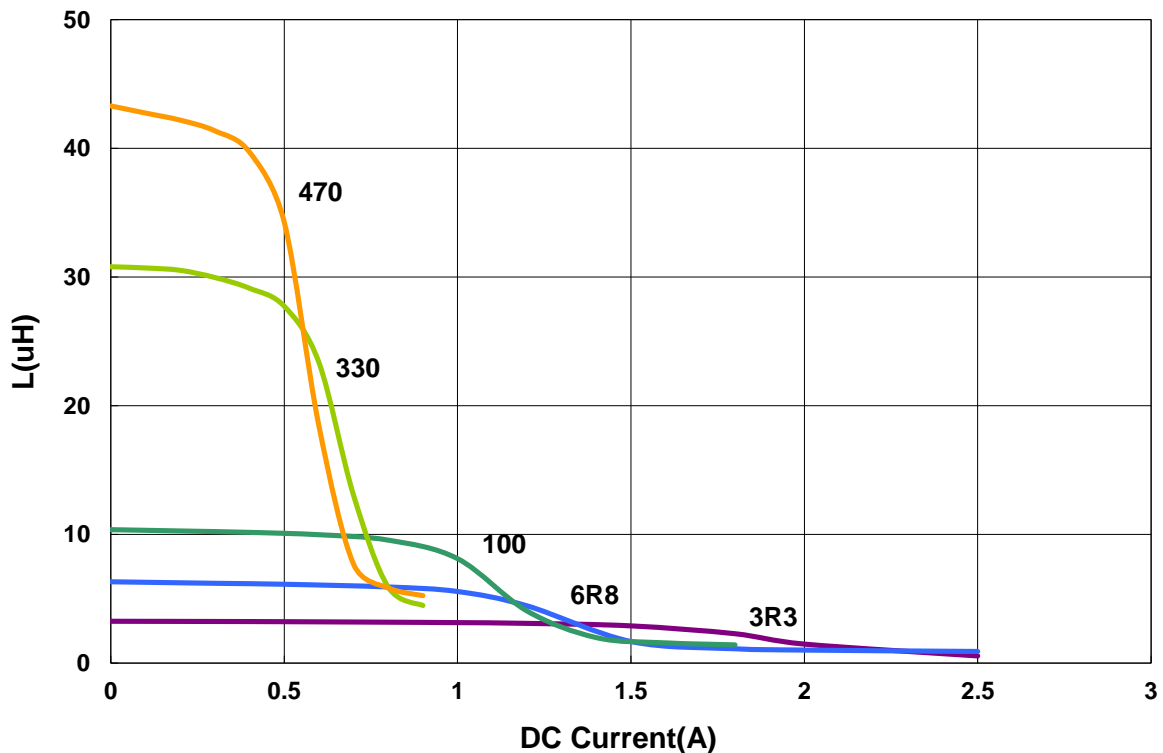
**APSC00050520 Type**

**Characteristics Graph**

**Inductance vs. Frequency Charateristics**



**Inductance vs. DC Current**

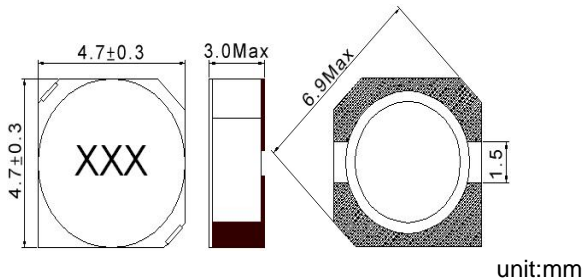


**Power Inductor APSC Series**

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AEC-Q200**

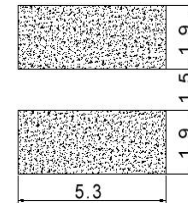
**APSC00050530 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|------------------|----------------|---------|
| APSC000505301R2□S0 | 1.2             | 100 kHz,1 V | 0.0236      | 2.56(4.1)        | 30             | 1R2     |
| APSC000505301R8□S0 | 1.8             | 100 kHz,1 V | 0.035       | 2.2(3.2)         | 30             | 1R8     |
| APSC000505302R0□S0 | 2               | 100 kHz,1 V | 0.030       | 2.1(3.0)         | 30             | 2R0     |
| APSC000505302R2□S0 | 2.2             | 100 kHz,1 V | 0.0313      | 2.04(2.9)        | 30             | 2R2     |
| APSC000505302R7□S0 | 2.7             | 100 kHz,1 V | 0.0433      | 1.6(2.8)         | 30             | 2R7     |
| APSC000505303R3□S0 | 3.3             | 100 kHz,1 V | 0.0492      | 1.57(2.3)        | 30             | 3R3     |
| APSC000505303R9□S0 | 3.9             | 100 kHz,1 V | 0.0648      | 1.44(2.1)        | 30             | 3R9     |
| APSC000505304R7□S0 | 4.7             | 100 kHz,1 V | 0.072       | 1.32(2.0)        | 20,30          | 4R7     |
| APSC000505305R6□S0 | 5.6             | 100 kHz,1 V | 0.1009      | 1.17(1.7)        | 30             | 5R6     |
| APSC000505306R8□S0 | 6.8             | 100 kHz,1 V | 0.1089      | 1.12(1.6)        | 30             | 6R8     |
| APSC000505308R2□S0 | 8.2             | 100 kHz,1 V | 0.1175      | 1.04(1.5)        | 30             | 8R2     |
| APSC0005053010□S0  | 10              | 100 kHz,1 V | 0.1283      | 1.0(1.3)         | 20,30          | 100     |
| APSC00050530120□S0 | 12              | 100 kHz,1 V | 0.1316      | 0.84(1.1)        | 30             | 120     |
| APSC00050530150□S0 | 15              | 100 kHz,1 V | 0.149       | 0.76(1.0)        | 30             | 150     |
| APSC00050530180□S0 | 18              | 100 kHz,1 V | 0.166       | 0.72(0.99)       | 30             | 180     |
| APSC00050530220□S0 | 22              | 100 kHz,1 V | 0.235       | 0.7(0.93)        | 20,30          | 220     |
| APSC00050530270□S0 | 27              | 100 kHz,1 V | 0.261       | 0.58(0.83)       | 30             | 270     |
| APSC00050530330□S0 | 33              | 100 kHz,1 V | 0.3313      | 0.56(0.64)       | 30             | 330     |
| APSC00050530390□S0 | 39              | 100 kHz,1 V | 0.3837      | 0.5(0.7)         | 20,30          | 390     |
| APSC00050530470□S0 | 47              | 100 kHz,1 V | 0.587       | 0.48(0.61)       | 30             | 470     |
| APSC00050530560□S0 | 56              | 100 kHz,1 V | 0.6245      | 0.41(0.54)       | 30             | 560     |
| APSC00050530680□S0 | 68              | 100 kHz,1 V | 0.699       | 0.35(0.49)       | 30             | 680     |
| APSC00050530820□S0 | 82              | 100 kHz,1 V | 0.9148      | 0.32(0.49)       | 30             | 820     |
| APSC00050530101□S0 | 100             | 100 kHz,1 V | 1.02        | 0.29(0.45)       | 20,30          | 101     |
| APSC00050530121□S0 | 120             | 100 kHz,1 V | 1.27        | 0.27(0.4)        | 30             | 121     |
| APSC00050530151□S0 | 150             | 100 kHz,1 V | 1.35        | 0.24(0.34)       | 30             | 151     |
| APSC00050530181□S0 | 180             | 100 kHz,1 V | 1.54        | 0.22(0.32)       | 30             | 181     |
| APSC00050530221□S0 | 220             | 100 kHz,1 V | 2.0         | 0.2(0.29)        | 30             | 221     |
| APSC00050530331□S0 | 330             | 100 kHz,1 V | 3.4         | 0.19(0.24)       | 20,30          | 331     |
| APSC00050530391□S0 | 390             | 100 kHz,1 V | 3.56        | 0.18(0.22)       | 20,30          | 391     |
| APSC00050530681□S0 | 680             | 100 kHz,1 V | 5.2         | 0.1(0.17)        | 20,30          | 681     |

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- Measure Equipment:

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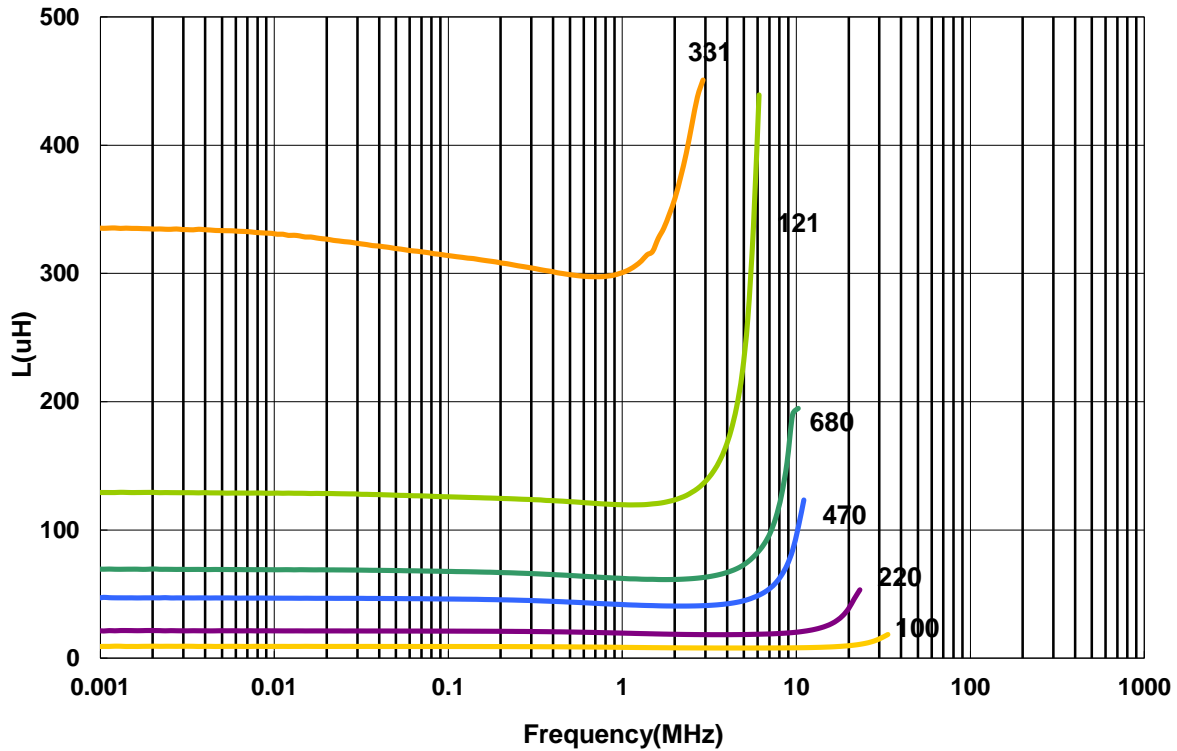
RDC: CH502BC

Rate current: HP4284+42841A or WK3260B+WK3265B

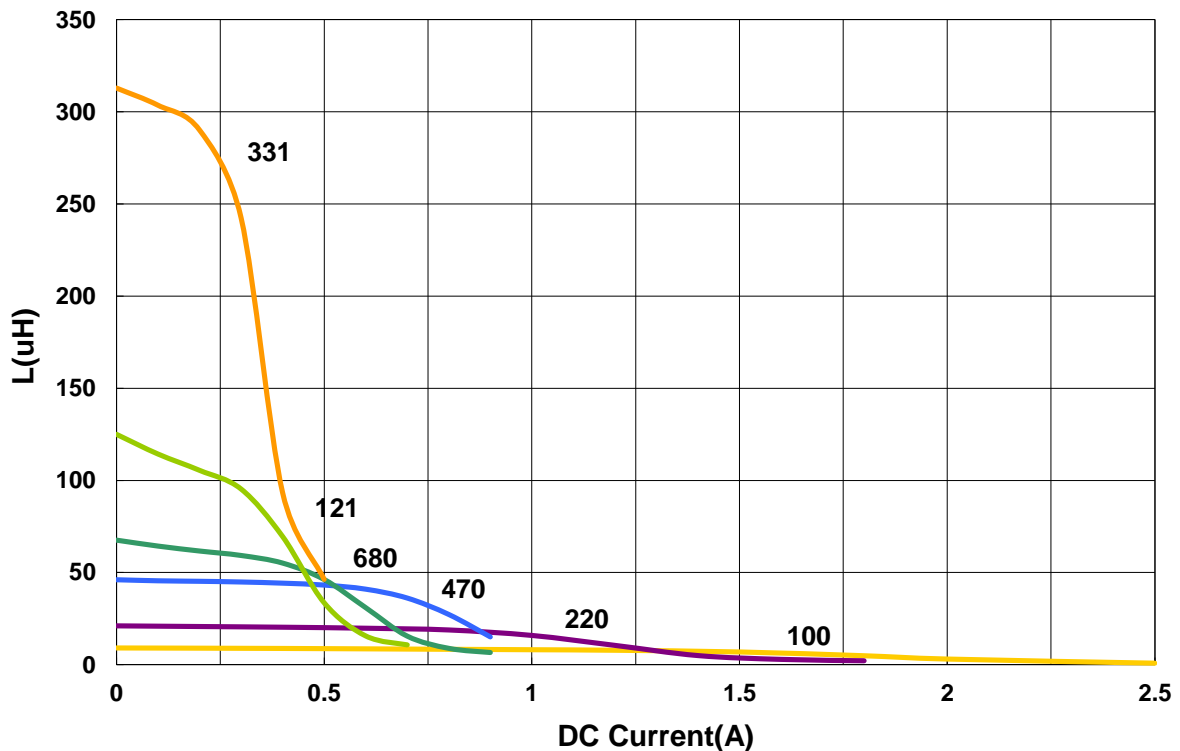
APSC00050530 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

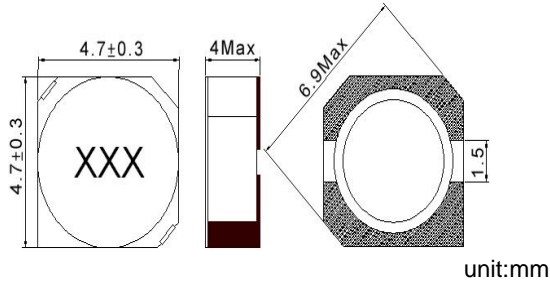


**Power Inductor APSC Series**

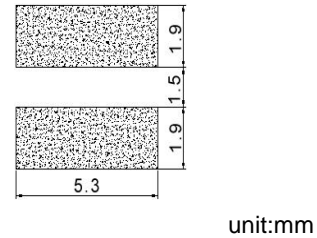
**Automotive  
AEC-Q200**

**APSC00050540 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.   | RDC (Ω)Max. | Isat(A) Max(Typ) | Irms (A)Typ. | Tolerance (±%) | Marking |
|--------------------|-----------------|--------------|-------------|------------------|--------------|----------------|---------|
| APSC000505402R2□S0 | 2.2             | 100 kHz, 1 V | 0.033       | 3.5(4.6)         | 4.3          | 30             | 2R2     |
| APSC000505403R3□S0 | 3.3             | 100 kHz, 1 V | 0.039       | 2.7(3.4)         | 3.6          | 30             | 3R3     |
| APSC000505404R7□S0 | 4.7             | 100 kHz, 1 V | 0.053       | 2.4(3.0)         | 3            | 30             | 4R7     |
| APSC000505406R8□S0 | 6.8             | 100 kHz, 1 V | 0.06        | 2.0(2.6)         | 2.8          | 30             | 6R8     |
| APSC00050540100□S0 | 10              | 100 kHz, 1 V | 0.15        | 1.5(2.0)         | 1.6          | 20,30          | 100     |
| APSC00050540150□S0 | 15              | 100 kHz, 1 V | 0.21        | 1.2(1.6)         | 1.35         | 20,30          | 150     |
| APSC00050540220□S0 | 22              | 100 kHz, 1 V | 0.27        | 1.0(1.4)         | 1            | 20,30          | 220     |

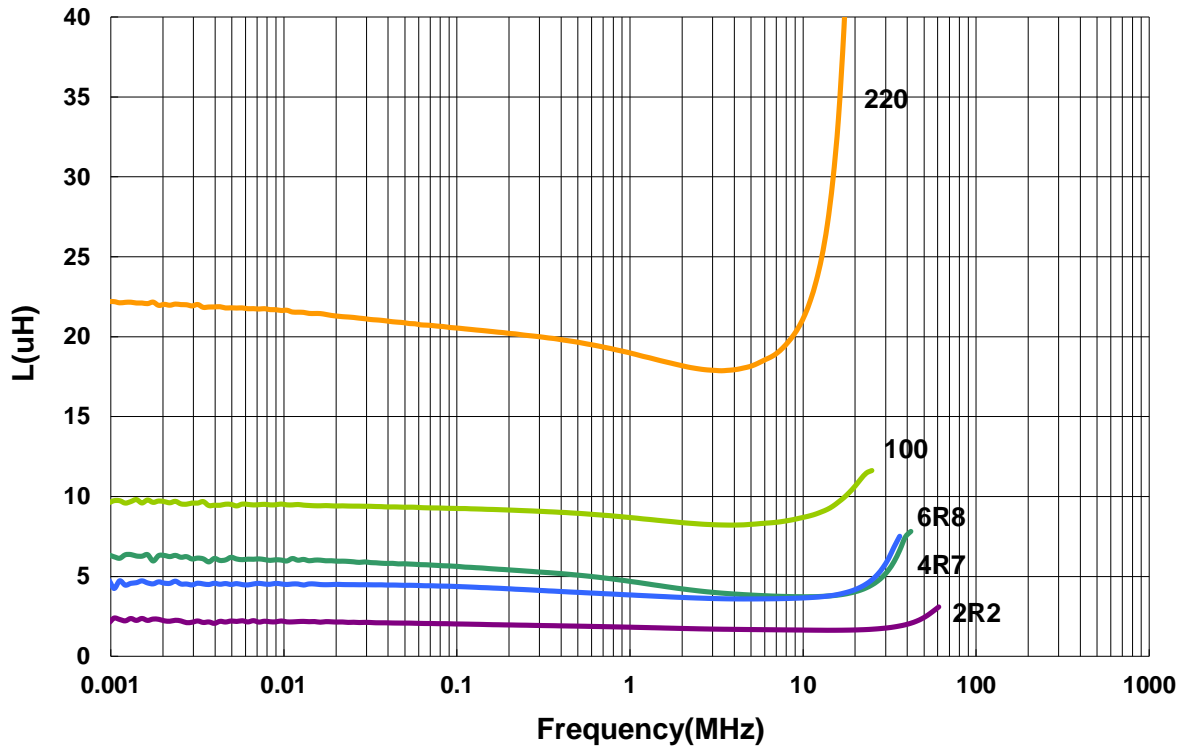
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B

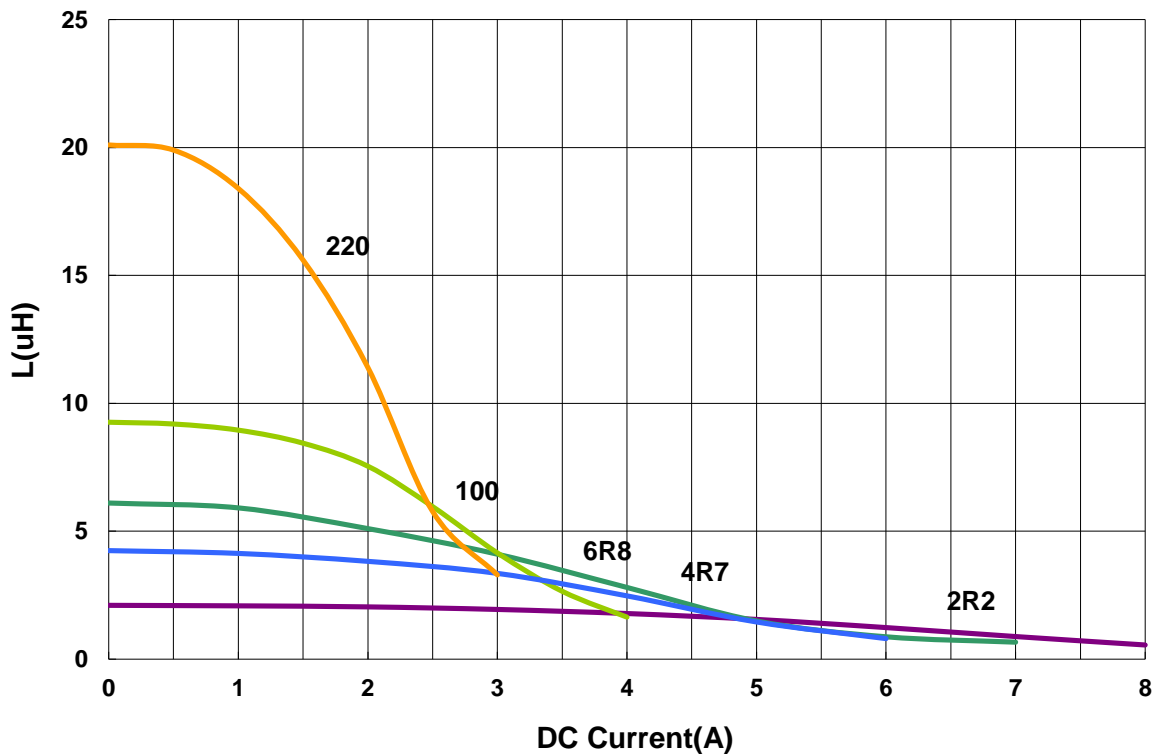
APSC00050540 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

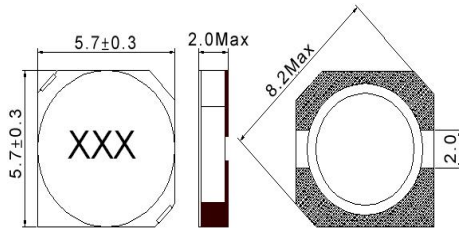


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

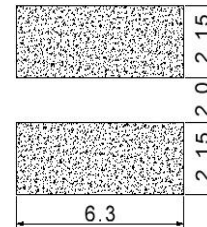
**APSC00060620 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq. | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|------------------|----------------|---------|
| APSC000606201R0□S0 | 1               | 10 kHz,1 V | 0.038       | 2.8(3.5)         | 30             | 1R0     |
| APSC000606201R5□S0 | 1.5             | 10 kHz,1 V | 0.038       | 2.5(3.0)         | 30             | 1R5     |
| APSC000606202R0□S0 | 2               | 10 kHz,1 V | 0.045       | 2.1(2.6)         | 30             | 2R0     |
| APSC000606202R2□S0 | 2.2             | 10 kHz,1 V | 0.048       | 2.0(2.5)         | 30             | 2R2     |
| APSC000606203R3□S0 | 3.3             | 10 kHz,1 V | 0.056       | 1.7(2.0)         | 30             | 3R3     |
| APSC000606204R1□S0 | 4.1             | 10 kHz,1 V | 0.057       | 1.55(1.9)        | 30             | 4R1     |
| APSC000606204R7□S0 | 4.7             | 10 kHz,1 V | 0.076       | 1.35(1.7)        | 30             | 4R7     |
| APSC000606205R4□S0 | 5.4             | 10 kHz,1 V | 0.076       | 1.2(1.5)         | 30             | 5R4     |
| APSC000606206R2□S0 | 6.2             | 10 kHz,1 V | 0.096       | 1.1(1.4)         | 30             | 6R2     |
| APSC000606206R8□S0 | 6.8             | 10 kHz,1 V | 0.100       | 1.0(1.3)         | 30             | 6R8     |
| APSC000606208R9□S0 | 8.9             | 10 kHz,1 V | 0.116       | 0.95(1.25)       | 30             | 8R9     |
| APSC00060620100□S0 | 10              | 10 kHz,1 V | 0.124       | 0.9(1.2)         | 20,30          | 100     |
| APSC00060620120□S0 | 12              | 10 kHz,1 V | 0.153       | 0.9(1.0)         | 30             | 120     |
| APSC00060620150□S0 | 15              | 10 kHz,1 V | 0.196       | 0.8(0.91)        | 20,30          | 150     |
| APSC00060620180□S0 | 18              | 10 kHz,1 V | 0.210       | 0.75(0.9)        | 30             | 180     |
| APSC00060620220□S0 | 22              | 10 kHz,1 V | 0.290       | 0.65(0.8)        | 20,30          | 220     |
| APSC00060620270□S0 | 27              | 10 kHz,1 V | 0.330       | 0.6(0.7)         | 30             | 270     |
| APSC00060620330□S0 | 33              | 10 kHz,1 V | 0.386       | 0.55(0.65)       | 20,30          | 330     |
| APSC00060620390□S0 | 39              | 10 KHz,1 V | 0.520       | 0.48(0.6)        | 30             | 390     |
| APSC00060620470□S0 | 47              | 10 kHz,1 V | 0.595       | 0.44(0.51)       | 20,30          | 470     |
| APSC00060620560□S0 | 56              | 10 kHz,1 V | 0.665       | 0.4(0.5)         | 30             | 560     |
| APSC00060620680□S0 | 68              | 10 kHz,1 V | 0.840       | 0.33(0.43)       | 30             | 680     |
| APSC00060620820□S0 | 82              | 10 kHz,1 V | 0.978       | 0.3(0.41)        | 30             | 820     |
| APSC00060620101□S0 | 100             | 10 kHz,1 V | 1.2         | 0.25(0.36)       | 20,30          | 101     |

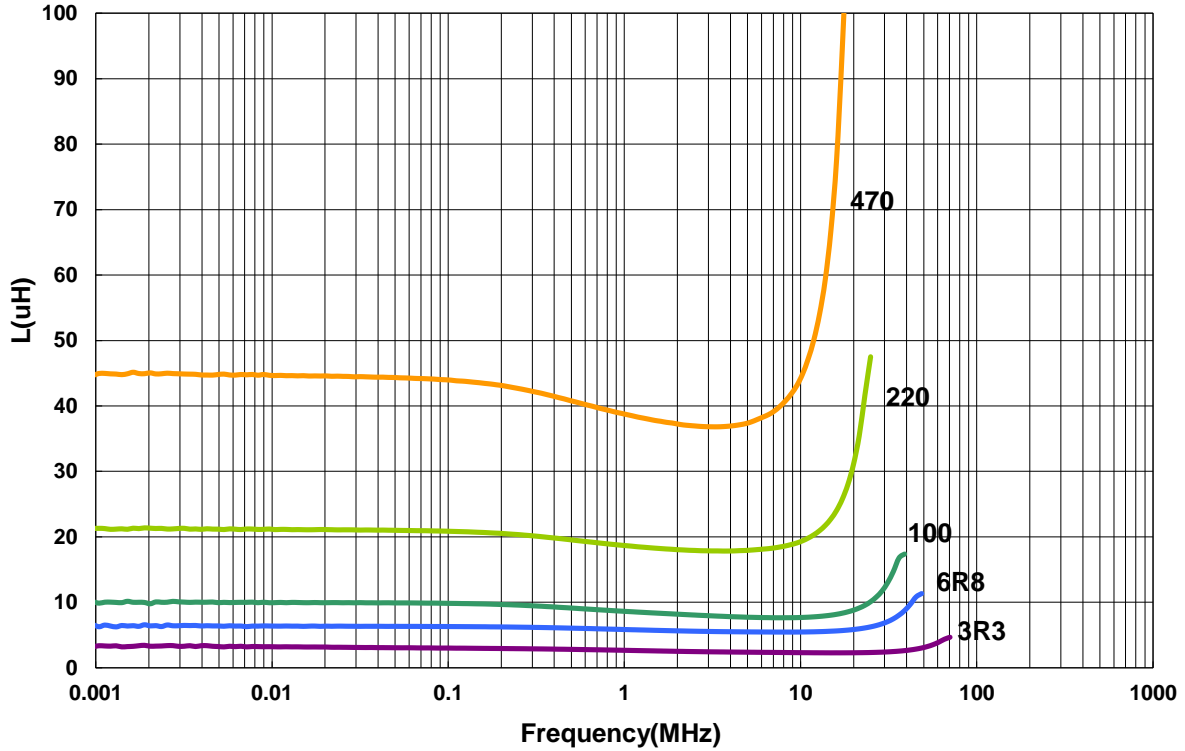
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B

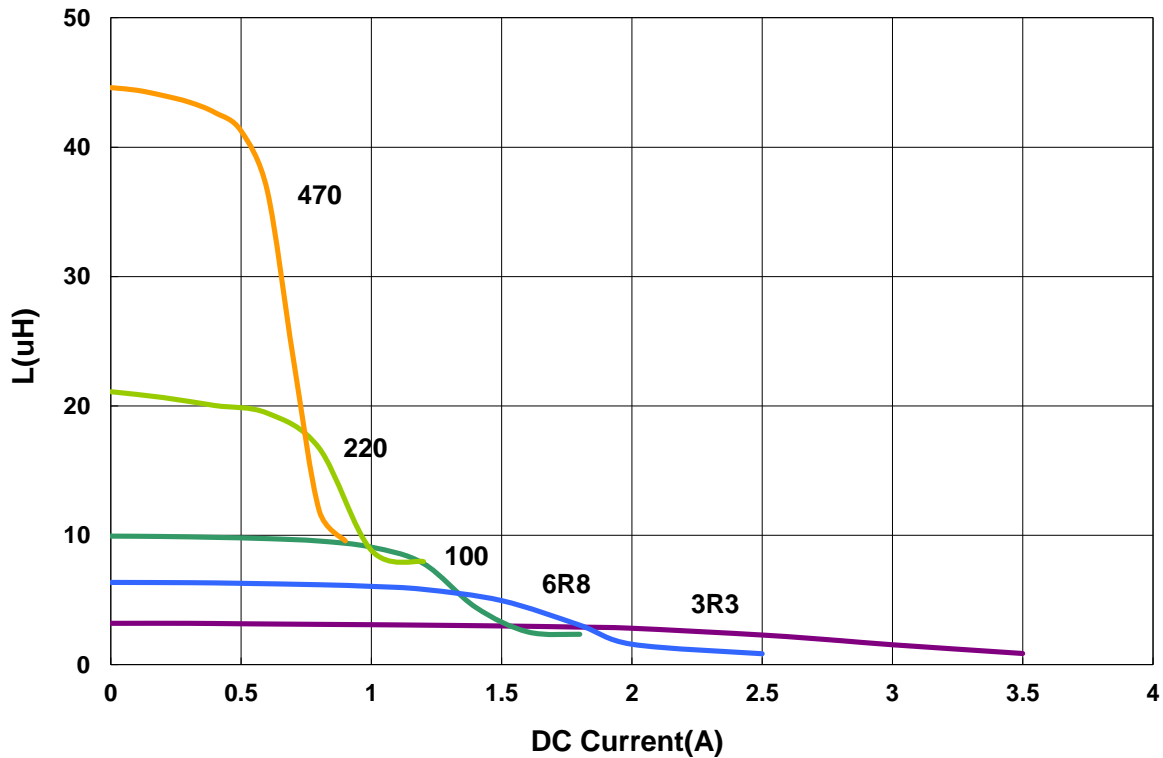
APSC00060620 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

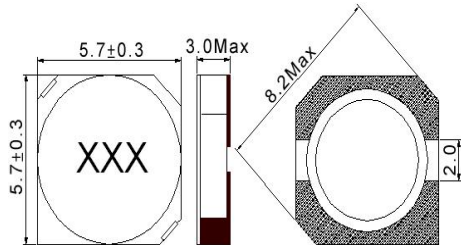


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

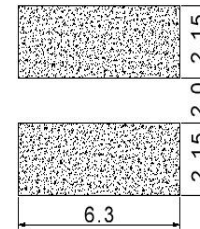
**APSC00060630 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq. | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|------------------|----------------|---------|
| APSC000606301R0□S0 | 1               | 10 kHz,1 V | 0.015       | 3.5(4.2)         | 30             | 1R0     |
| APSC000606301R5□S0 | 1.5             | 10 kHz,1 V | 0.015       | 2.8(3.7)         | 30             | 1R5     |
| APSC000606302R2□S0 | 2.2             | 10 kHz,1 V | 0.018       | 2.4(3.1)         | 30             | 2R2     |
| APSC000606302R5□S0 | 2.5             | 10 kHz,1 V | 0.022       | 2.3(2.7)         | 30             | 2R5     |
| APSC000606302R6□S0 | 2.6             | 10 kHz,1 V | 0.022       | 2.2(2.6)         | 30             | 2R6     |
| APSC000606302R7□S0 | 2.7             | 10 kHz,1 V | 0.024       | 2.2(2.6)         | 30             | 2R7     |
| APSC000606303R0□S0 | 3               | 10 kHz,1 V | 0.024       | 2.2(2.5)         | 30             | 3R0     |
| APSC000606303R3□S0 | 3.3             | 10 kHz,1 V | 0.027       | 2.1(2.5)         | 30             | 3R3     |
| APSC000606304R2□S0 | 4.2             | 10 kHz,1 V | 0.031       | 2.0(2.2)         | 30             | 4R2     |
| APSC000606304R3□S0 | 4.3             | 10 kHz,1 V | 0.041       | 1.8(2.1)         | 30             | 4R3     |
| APSC000606304R7□S0 | 4.7             | 10 kHz,1 V | 0.038       | 1.6(2.0)         | 30             | 4R7     |
| APSC000606305R0□S0 | 5               | 10 kHz,1 V | 0.038       | 1.5(1.9)         | 30             | 5R0     |
| APSC000606305R3□S0 | 5.3             | 10 kHz,1 V | 0.038       | 1.5(1.9)         | 30             | 5R3     |
| APSC000606306R2□S0 | 6.2             | 10 kHz,1 V | 0.045       | 1.2(1.8)         | 30             | 6R2     |
| APSC000606306R8□S0 | 6.8             | 10 kHz,1 V | 0.050       | 1.2(1.6)         | 30             | 6R8     |
| APSC000606308R2□S0 | 8.2             | 10 kHz,1 V | 0.053       | 1.0(1.5)         | 30             | 8R2     |
| APSC00060630100□S0 | 10              | 10 kHz,1 V | 0.065       | 0.95(1.4)        | 20,30          | 100     |
| APSC00060630120□S0 | 12              | 10 kHz,1 V | 0.076       | 0.9(1.3)         | 20,30          | 120     |
| APSC00060630150□S0 | 15              | 10 kHz,1 V | 0.103       | 0.85(1.1)        | 20,30          | 150     |
| APSC00060630180□S0 | 18              | 10 kHz,1 V | 0.110       | 0.8(1.0)         | 30             | 180     |
| APSC00060630220□S0 | 22              | 10 kHz,1 V | 0.122       | 0.75(0.92)       | 20,30          | 220     |
| APSC00060630270□S0 | 27              | 10 kHz,1 V | 0.175       | 0.65(0.82)       | 30             | 270     |
| APSC00060630330□S0 | 33              | 10 kHz,1 V | 0.189       | 0.6(0.75)        | 30             | 330     |
| APSC00060630390□S0 | 39              | 10 kHz,1 V | 0.212       | 0.55(0.7)        | 30             | 390     |
| APSC00060630470□S0 | 47              | 10 kHz,1 V | 0.250       | 0.5(0.62)        | 20,30          | 470     |
| APSC00060630560□S0 | 56              | 10 kHz,1 V | 0.305       | 0.48(0.59)       | 30             | 560     |
| APSC00060630680□S0 | 68              | 10 kHz,1 V | 0.355       | 0.42(0.52)       | 30             | 680     |
| APSC00060630820□S0 | 82              | 10 kHz,1 V | 0.463       | 0.39(0.46)       | 30             | 820     |

**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. Rate current: The rate current indicates the current when the inductance decreases to 65% over of it's nominal value or D.C.current when the temperature rising  $\Delta T=40^{\circ}C$  lower, whichever is lower
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B

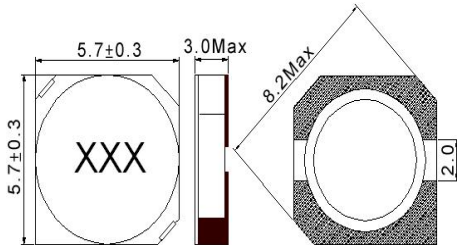


**Power Inductor SCDS Series**

**Automotive  
AEC-Q200**

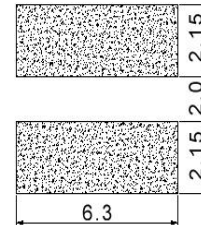
**APSC00060630 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq. | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|------------------|----------------|---------|
| APSC00060630101□S0 | 100             | 10 kHz,1 V | 0.52        | 0.35(0.42)       | 20,30          | 101     |
| APSC00060630181□S0 | 180             | 10 kHz,1 V | 1.05        | 0.21(0.31)       | 30             | 181     |
| APSC00060630221□S0 | 220             | 10 kHz,1 V | 1.2         | 0.20(0.30)       | 30             | 221     |
| APSC00060630331□S0 | 330             | 10 kHz,1 V | 1.7         | 0.15(0.24)       | 20,30          | 331     |
| APSC00060630391□S0 | 390             | 10 kHz,1 V | 1.8         | 0.13(0.22)       | 30             | 391     |
| APSC00060630471□S0 | 470             | 10 kHz,1 V | 2.5         | 0.11(0.21)       | 20,30          | 471     |
| APSC00060630561□S0 | 560             | 10 kHz,1 V | 3.2         | 0.10(0.17)       | 20,30          | 561     |

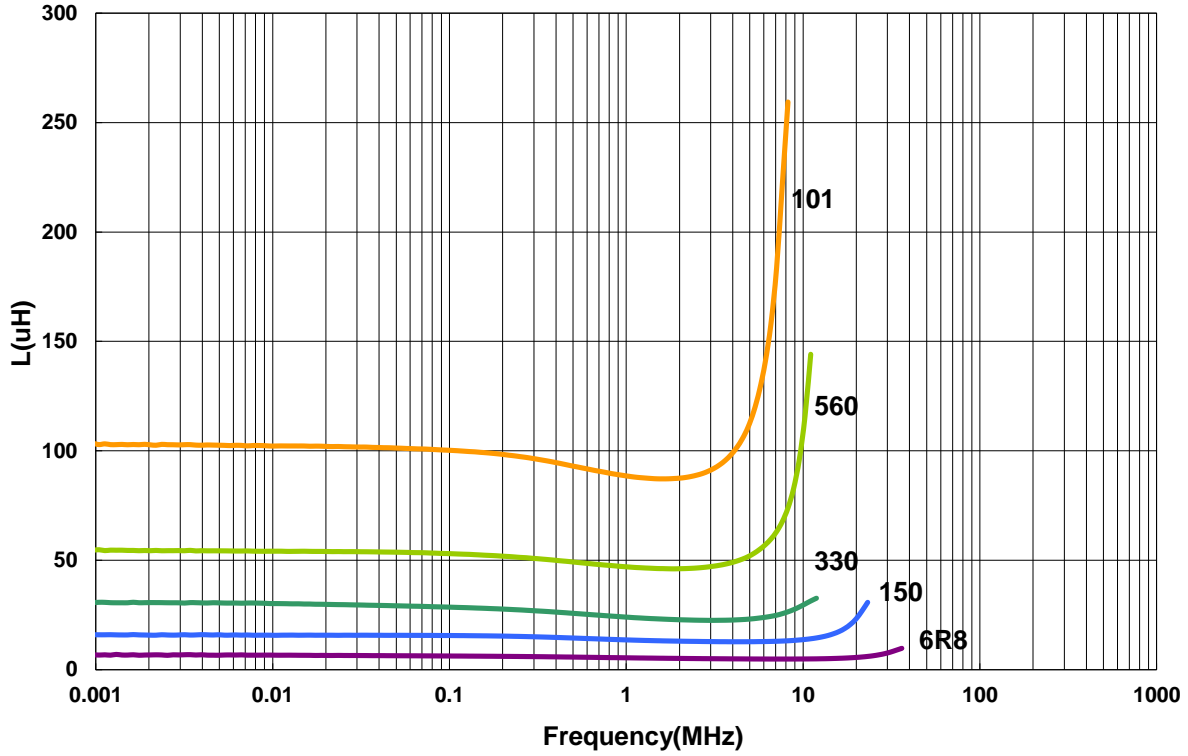
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40 °C ~ 125 °C (Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate current: HP4284+42841A or WK3260B+WK3265B

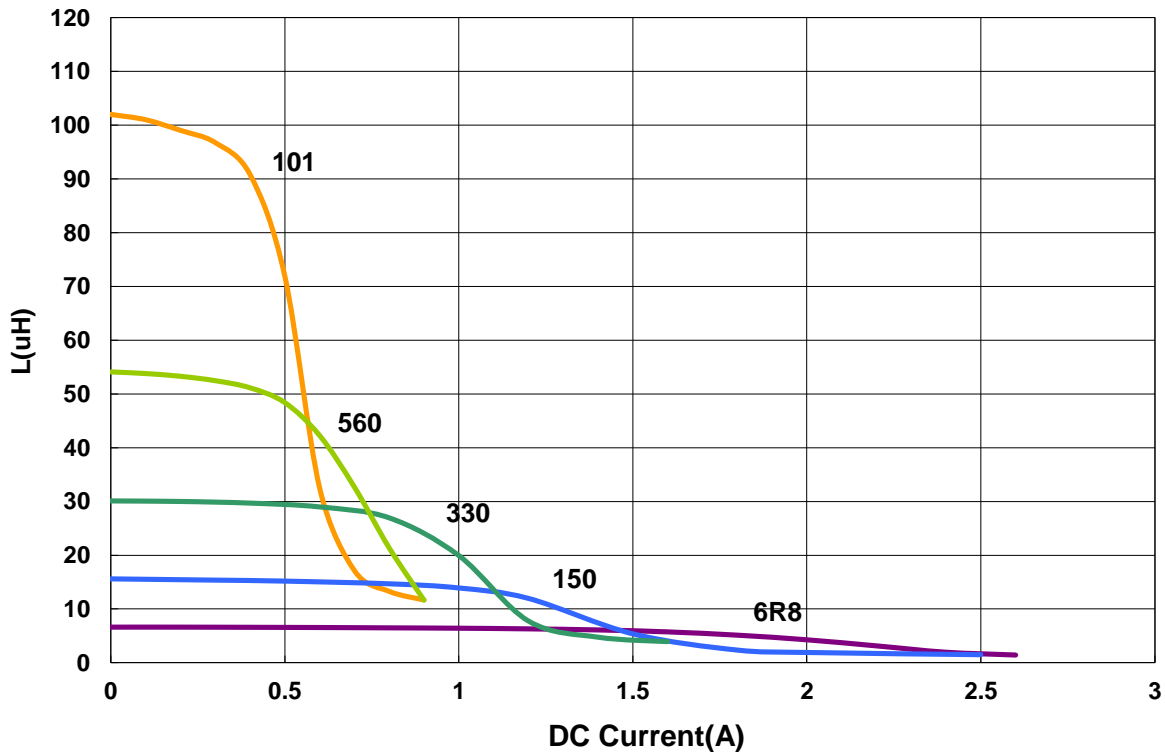
APSC00060630 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

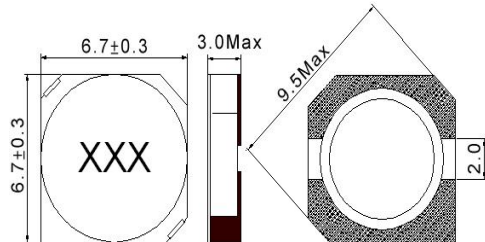


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

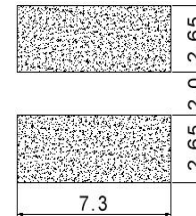
**APSC00070730 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq. | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|------------------|----------------|---------|
| APSC000707301R0□S0 | 1               | 10 kHz,1 V | 0.024       | 3.5(5.3)         | 30             | 1R0     |
| APSC000707301R5□S0 | 1.5             | 10 kHz,1 V | 0.0195      | 3.4(4.5)         | 30             | 1R5     |
| APSC000707302R2□S0 | 2.2             | 10 kHz,1 V | 0.035       | 3.0(3.4)         | 30             | 2R2     |
| APSC000707303R0□S0 | 3               | 10 kHz,1 V | 0.024       | 2.6(3.2)         | 30             | 3R0     |
| APSC000707303R3□S0 | 3.3             | 10 kHz,1 V | 0.025       | 2.5(3.1)         | 30             | 3R3     |
| APSC000707303R9□S0 | 3.9             | 10 kHz,1 V | 0.027       | 2.3(2.9)         | 30             | 3R9     |
| APSC000707304R7□S0 | 4.7             | 10 kHz,1 V | 0.031       | 1.92(2.4)        | 30             | 4R7     |
| APSC000707305R0□S0 | 5               | 10 kHz,1 V | 0.031       | 1.74(2.4)        | 30             | 5R0     |
| APSC000707306R0□S0 | 6               | 10 kHz,1 V | 0.035       | 1.7(2.25)        | 30             | 6R0     |
| APSC000707306R2□S0 | 6.2             | 10 kHz,1 V | 0.051       | 1.4(2.2)         | 30             | 6R2     |
| APSC000707306R8□S0 | 6.8             | 10 kHz,1 V | 0.050       | 1.3(2.15)        | 30             | 6R8     |
| APSC000707307R3□S0 | 7.3             | 10 kHz,1 V | 0.054       | 1.25(2.1)        | 30             | 7R3     |
| APSC000707308R6□S0 | 8.6             | 10 kHz,1 V | 0.058       | 1.2(1.85)        | 30             | 8R6     |
| APSC00070730100□S0 | 10              | 10 kHz,1 V | 0.065       | 1.15(1.7)        | 20,30          | 100     |
| APSC00070730120□S0 | 12              | 10 kHz,1 V | 0.070       | 1.14(1.5)        | 20,30          | 120     |
| APSC00070730150□S0 | 15              | 10 kHz,1 V | 0.084       | 1.12(1.4)        | 20,30          | 150     |
| APSC00070730180□S0 | 18              | 10 kHz,1 V | 0.095       | 1.02(1.32)       | 30             | 180     |
| APSC00070730220□S0 | 22              | 10 kHz,1 V | 0.128       | 0.87(1.2)        | 30             | 220     |
| APSC00070730270□S0 | 27              | 10 kHz,1 V | 0.142       | 0.82(1.05)       | 30             | 270     |
| APSC00070730330□S0 | 33              | 10 kHz,1 V | 0.165       | 0.8(0.97)        | 30             | 330     |
| APSC00070730390□S0 | 39              | 10 kHz,1 V | 0.210       | 0.79(0.9)        | 30             | 390     |
| APSC00070730470□S0 | 47              | 10 kHz,1 V | 0.238       | 0.7(0.8)         | 20,30          | 470     |
| APSC00070730560□S0 | 56              | 10 kHz,1 V | 0.277       | 0.6(0.73)        | 30             | 560     |
| APSC00070730680□S0 | 68              | 10 kHz,1 V | 0.304       | 0.55(0.65)       | 30             | 680     |
| APSC00070730820□S0 | 82              | 10 kHz,1 V | 0.390       | 0.48(0.6)        | 30             | 820     |
| APSC00070730101□S0 | 100             | 10 kHz,1 V | 0.535       | 0.43(0.54)       | 30             | 101     |
| APSC00070730121□S0 | 120             | 10 kHz,1 V | 0.60        | 0.36(0.45)       | 20,30          | 121     |
| APSC00070730221□S0 | 220             | 10 kHz,1 V | 1.3         | 0.27(0.34)       | 20,30          | 221     |

**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 35% from its value without current
3. Measure Equipment:

L: Agilent E4980 or HP4284A

RDC: CH502BC

Rate current: HP4284+42841A or WK3260B+WK3265B

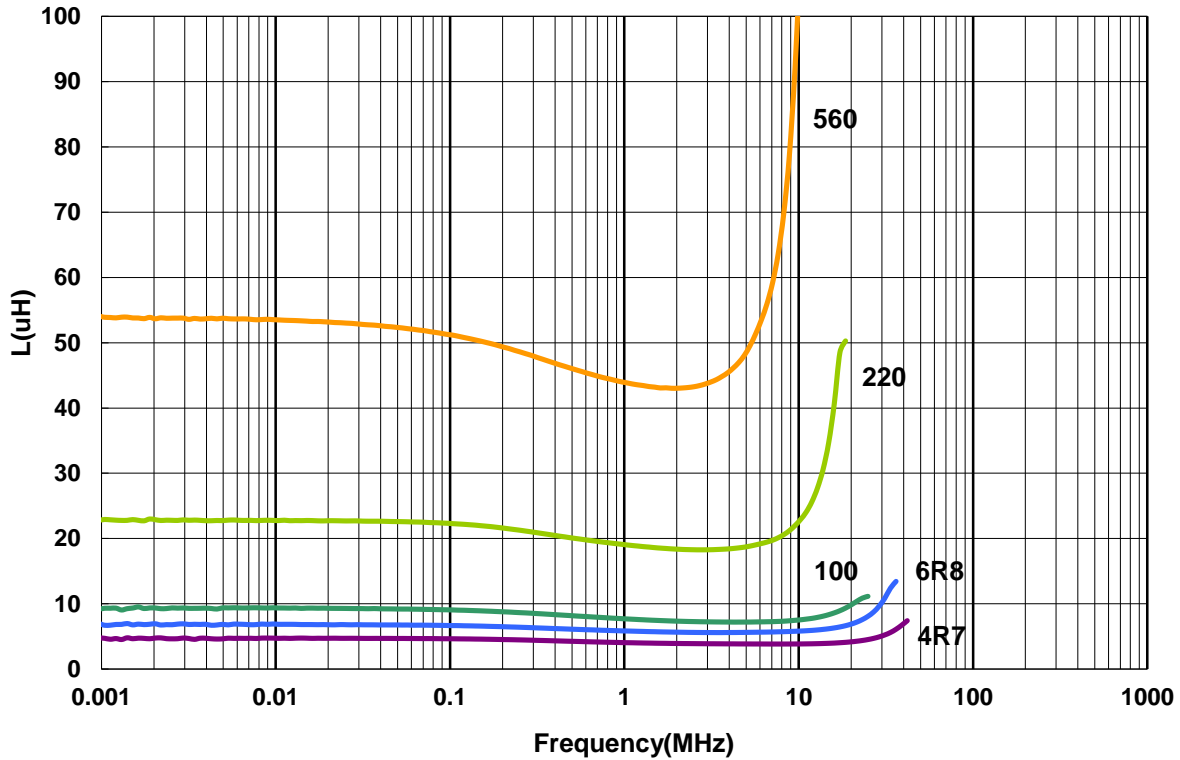
**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

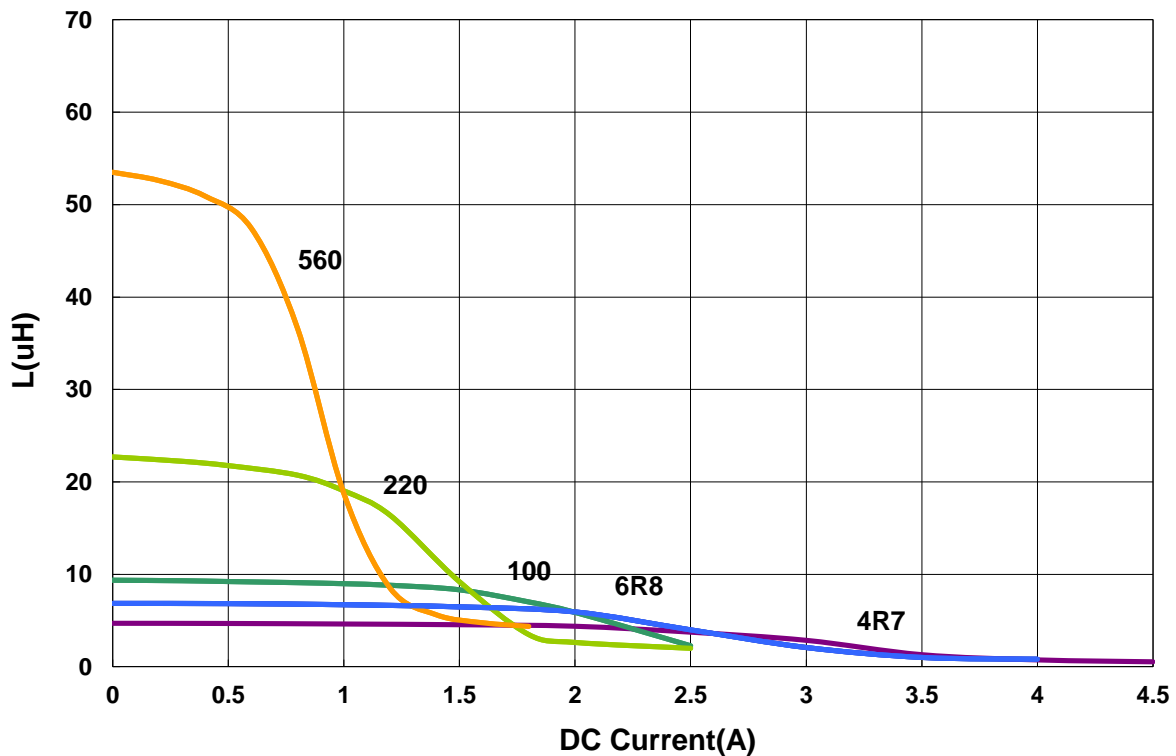
**APSC00070730 Type**

**Characteristics Graph**

**Inductance vs. Frequency Characteristics**



**Inductance vs. DC Current**

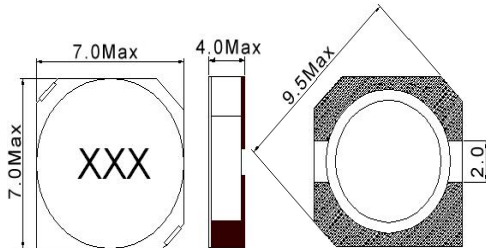


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

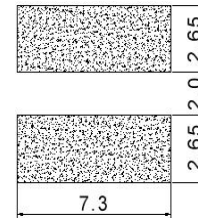
**APSC00070740 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.   | RDC (Ω)Max. | Isat(A) Max(Typ) | Tolerance (±%) | Marking |
|--------------------|-----------------|--------------|-------------|------------------|----------------|---------|
| APSC000707402R2□S0 | 2.2             | 10 kHz,0.1 V | 0.018       | 3.8(4.7)         | 30             | 2R2     |
| APSC000707402R7□S0 | 2.7             | 10 kHz,0.1 V | 0.002       | 3.2(4.0)         | 30             | 2R7     |
| APSC000707403R3□S0 | 3.3             | 10 kHz,0.1 V | 0.023       | 3.0(3.8)         | 30             | 3R3     |
| APSC000707404R7□S0 | 4.7             | 10 kHz,0.1 V | 0.025       | 2.7(3.4)         | 30             | 4R7     |
| APSC000707405R0□S0 | 5               | 10 kHz,0.1 V | 0.026       | 2.5(3.1)         | 30             | 5R0     |
| APSC000707405R6□S0 | 5.6             | 10 kHz,0.1 V | 0.027       | 2.3(3.0)         | 30             | 5R6     |
| APSC000707406R2□S0 | 6.2             | 10 kHz,0.1 V | 0.027       | 1.8(2.8)         | 30             | 6R2     |
| APSC000707406R8□S0 | 6.8             | 10 kHz,0.1 V | 0.032       | 1.7(2.7)         | 30             | 6R8     |
| APSC000707407R4□S0 | 7.4             | 10 kHz,0.1 V | 0.032       | 1.7(2.5)         | 30             | 7R4     |
| APSC000707408R7□S0 | 8.7             | 10 kHz,0.1 V | 0.034       | 1.7(2.4)         | 30             | 8R7     |
| APSC00070740100□S0 | 10              | 10 kHz,0.1 V | 0.041       | 1.6(2.2)         | 20,30          | 100     |
| APSC00070740120□S0 | 12              | 10 kHz,0.1 V | 0.053       | 1.5(1.9)         | 30             | 120     |
| APSC00070740150□S0 | 15              | 10 kHz,0.1 V | 0.057       | 1.4(1.8)         | 20,30          | 150     |
| APSC00070740180□S0 | 18              | 10 kHz,0.1 V | 0.092       | 1.25(1.6)        | 30             | 180     |
| APSC00070740220□S0 | 22              | 10 kHz,0.1 V | 0.096       | 1.1(1.5)         | 20,30          | 220     |
| APSC00070740270□S0 | 27              | 10 kHz,0.1 V | 0.109       | 0.9(1.2)         | 30             | 270     |
| APSC00070740330□S0 | 33              | 10 kHz,0.1 V | 0.124       | 0.85(1.1)        | 20,30          | 330     |
| APSC00070740390□S0 | 39              | 10 kHz,0.1 V | 0.138       | 0.8(1.1)         | 20,30          | 390     |
| APSC00070740470□S0 | 47              | 10 kHz,0.1 V | 0.150       | 0.7(1.0)         | 20,30          | 470     |
| APSC00070740560□S0 | 56              | 10 kHz,0.1 V | 0.202       | 0.65(0.9)        | 30             | 560     |
| APSC00070740680□S0 | 68              | 10 kHz,0.1 V | 0.234       | 0.6(0.8)         | 20,30          | 680     |
| APSC00070740820□S0 | 82              | 10 kHz,0.1 V | 0.324       | 0.55(0.7)        | 30             | 820     |
| APSC00070740101□S0 | 100             | 10 kHz,0.1 V | 0.358       | 0.5(0.65)        | 20,30          | 101     |
| APSC00070740561□S0 | 560             | 10 kHz,0.1 V | 1.8         | 0.2(0.25)        | 30             | 561     |

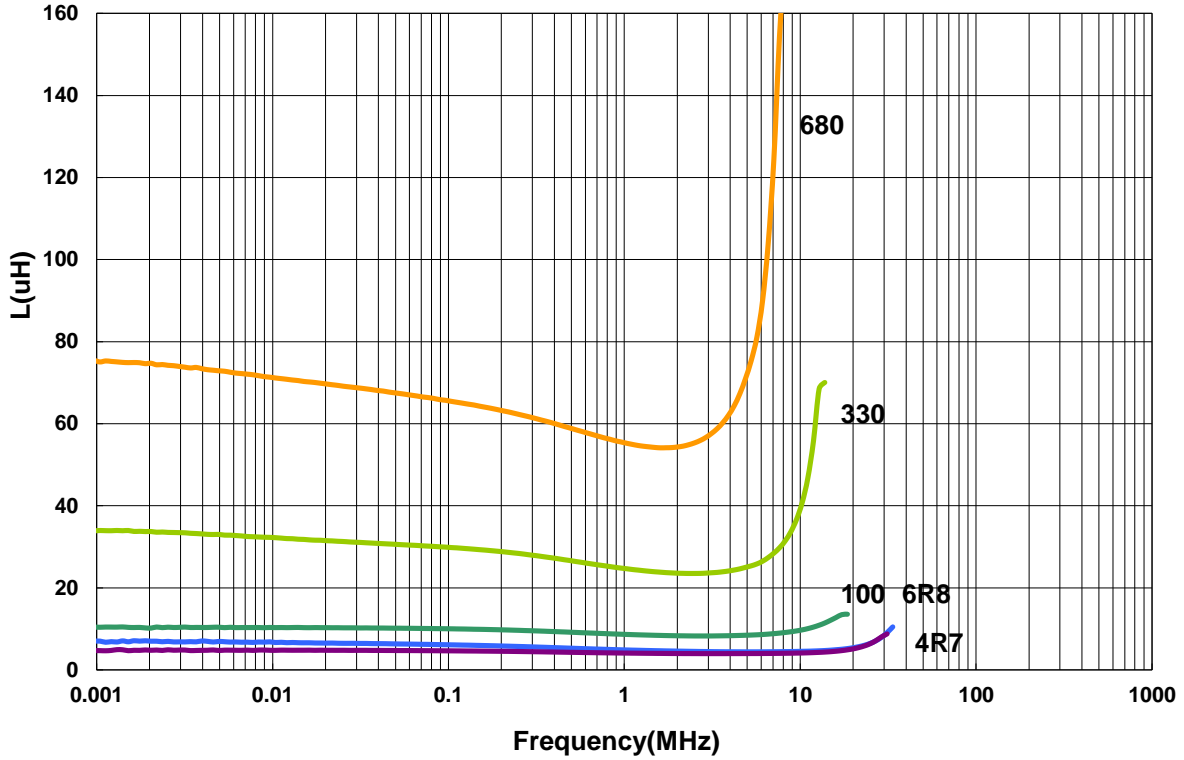
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Rate Current: HP4284+42841A or WK3260B+WK3265B

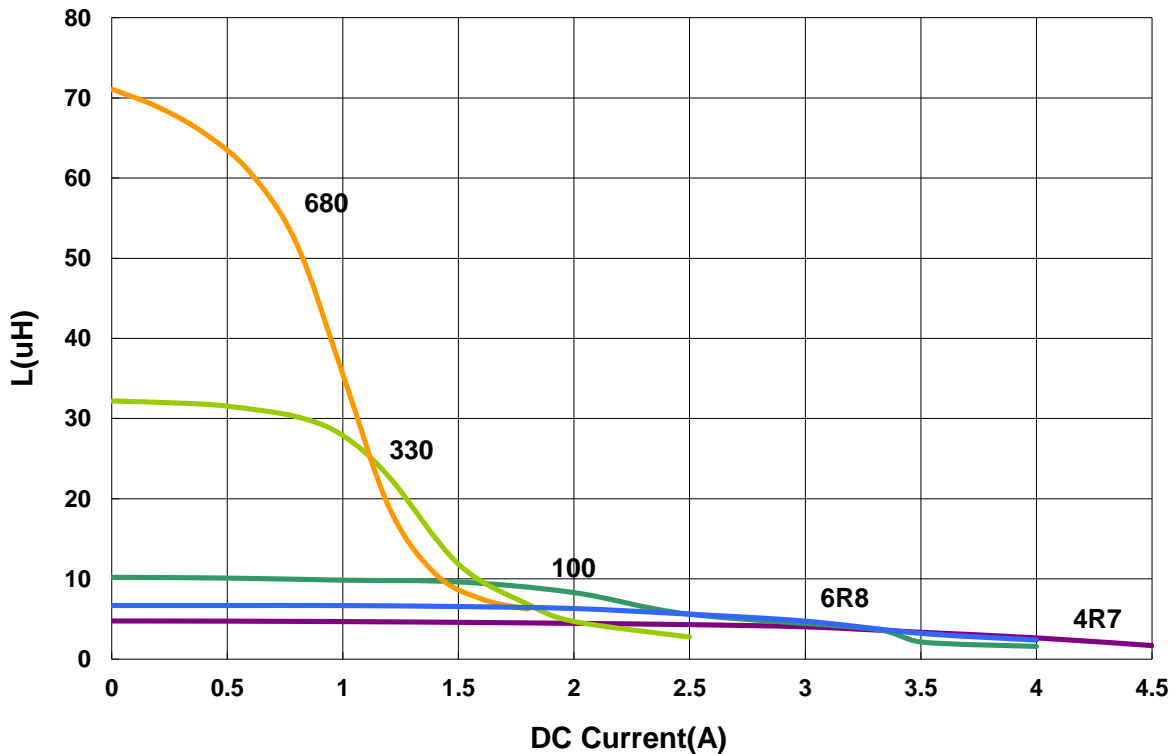
APSC00070740 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

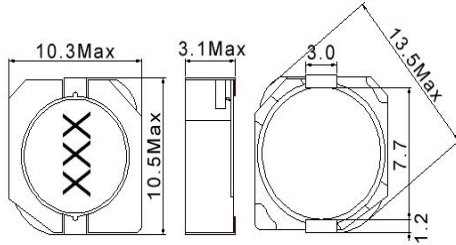


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

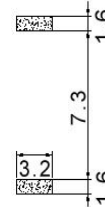
**APSC00101131 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|----------|----------------|---------|
| APSC001011314R7□00 | 4.7             | 100 kHz,1 V | 0.03        | 4.65     | 30             | 4R7     |
| APSC001011316R8□00 | 6.8             | 100 kHz,1 V | 0.035       | 3.84     | 30             | 6R8     |
| APSC00101131100□00 | 10              | 100 kHz,1 V | 0.059       | 3.18     | 20,30          | 100     |
| APSC00101131150□00 | 15              | 100 kHz,1 V | 0.091       | 2.6      | 20,30          | 150     |
| APSC00101131330□00 | 33              | 100 kHz,1 V | 0.202       | 1.74     | 20,30          | 330     |
| APSC00101131470□00 | 47              | 100 kHz,1 V | 0.299       | 1.43     | 20,30          | 470     |
| APSC00101131560□00 | 56              | 100 kHz,1 V | 0.325       | 0.9      | 20,30          | 560     |

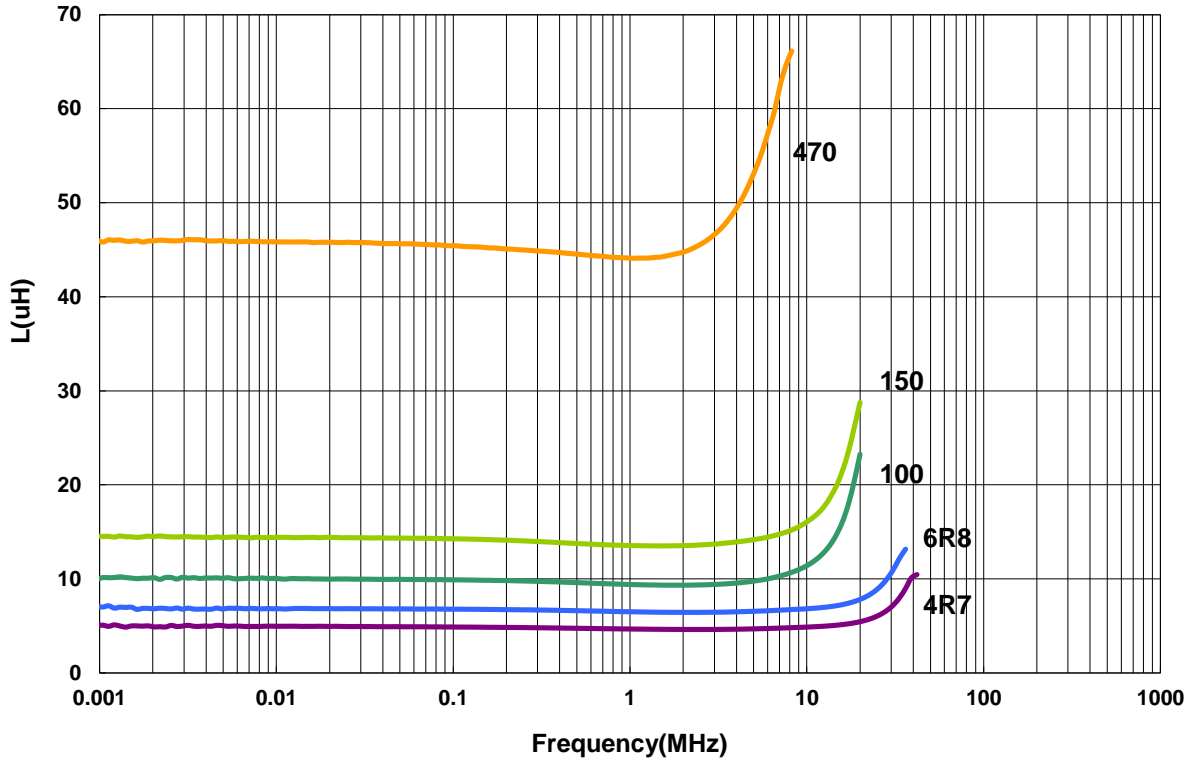
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

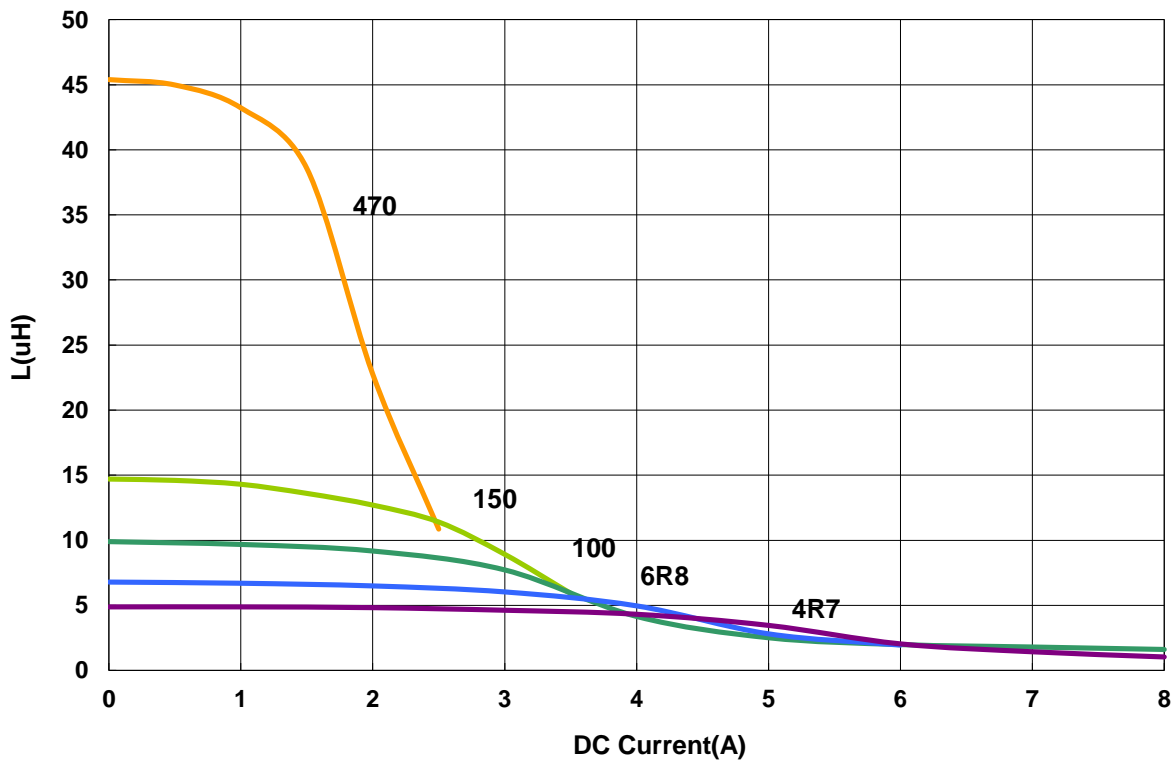
APSC00101131 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



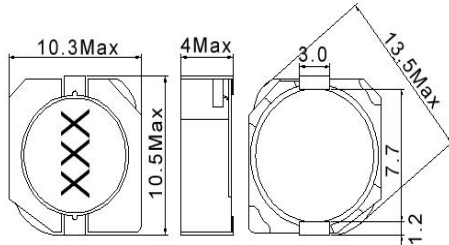


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

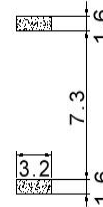
**APSC00101140 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|----------|----------------|---------|
| APSC001011401R5□00 | 1.5             | 100 kHz,1 V | 0.0081      | 10       | 30             | 1R5     |
| APSC001011402R2□00 | 2.2             | 100 kHz,1 V | 0.0105      | 7.5      | 20,30          | 2R2     |
| APSC001011402R5□00 | 2.5             | 100 kHz,1 V | 0.0105      | 7.5      | 30             | 2R5     |
| APSC001011403R3□00 | 3.3             | 100 kHz,1 V | 0.013       | 6        | 20,30          | 3R3     |
| APSC001011403R8□00 | 3.8             | 100 kHz,1 V | 0.013       | 6        | 20,30          | 3R8     |
| APSC001011404R7□00 | 4.7             | 100 kHz,1 V | 0.018       | 5.7      | 20,30          | 4R7     |
| APSC001011405R2□00 | 5.2             | 100 kHz,1 V | 0.022       | 5.5      | 30             | 5R2     |
| APSC001011405R6□00 | 5.6             | 100 kHz,1 V | 0.027       | 5        | 30             | 5R6     |
| APSC001011406R8□00 | 6.8             | 100 kHz,1 V | 0.027       | 5        | 20,30          | 6R8     |
| APSC001011407R0□00 | 7               | 100 kHz,1 V | 0.027       | 4.8      | 20,30          | 7R0     |
| APSC001011408R2□00 | 8.2             | 100 kHz,1 V | 0.033       | 4.5      | 20,30          | 8R2     |
| APSC00101140100□00 | 10              | 100 kHz,1 V | 0.035       | 4.4      | 20,30          | 100     |
| APSC00101140150□00 | 15              | 100 kHz,1 V | 0.05        | 3.6      | 20,30          | 150     |
| APSC00101140180□00 | 18              | 100 kHz,1 V | 0.07        | 3.5      | 20,30          | 180     |
| APSC00101140220□00 | 22              | 100 kHz,1 V | 0.073       | 2.9      | 20,30          | 220     |
| APSC00101140270□00 | 27              | 100 kHz,1 V | 0.09        | 2.5      | 20,30          | 270     |
| APSC00101140330□00 | 33              | 100 kHz,1 V | 0.093       | 2.3      | 20,30          | 330     |
| APSC00101140390□00 | 39              | 100 kHz,1 V | 0.128       | 2.1      | 20,30          | 390     |
| APSC00101140470□00 | 47              | 100 kHz,1 V | 0.128       | 2.1      | 20,30          | 470     |
| APSC00101140560□00 | 56              | 100 kHz,1 V | 0.213       | 1.6      | 20,30          | 560     |
| APSC00101140680□00 | 68              | 100 kHz,1 V | 0.213       | 1.5      | 20,30          | 680     |
| APSC00101140820□00 | 82              | 100 kHz,1 V | 0.28        | 1.35     | 20,30          | 820     |
| APSC00101140101□00 | 100             | 100 kHz,1 V | 0.304       | 1.35     | 20,30          | 101     |
| APSC00101140151□00 | 150             | 100 kHz,1 V | 0.506       | 1.15     | 20,30          | 151     |
| APSC00101140201□00 | 200             | 100 kHz,1 V | 0.756       | 0.92     | 20,30          | 201     |
| APSC00101140221□00 | 220             | 100 kHz,1 V | 0.756       | 0.92     | 20,30          | 221     |
| APSC00101140331□00 | 330             | 100 kHz,1 V | 1.09        | 0.7      | 20,30          | 331     |
| APSC00101140471□00 | 470             | 100 kHz,1 V | 1.6         | 0.5      | 20,30          | 471     |
| APSC00101140561□00 | 560             | 100 kHz,1 V | 2.1         | 0.4      | 20,30          | 561     |

**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 35% from its value without current
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

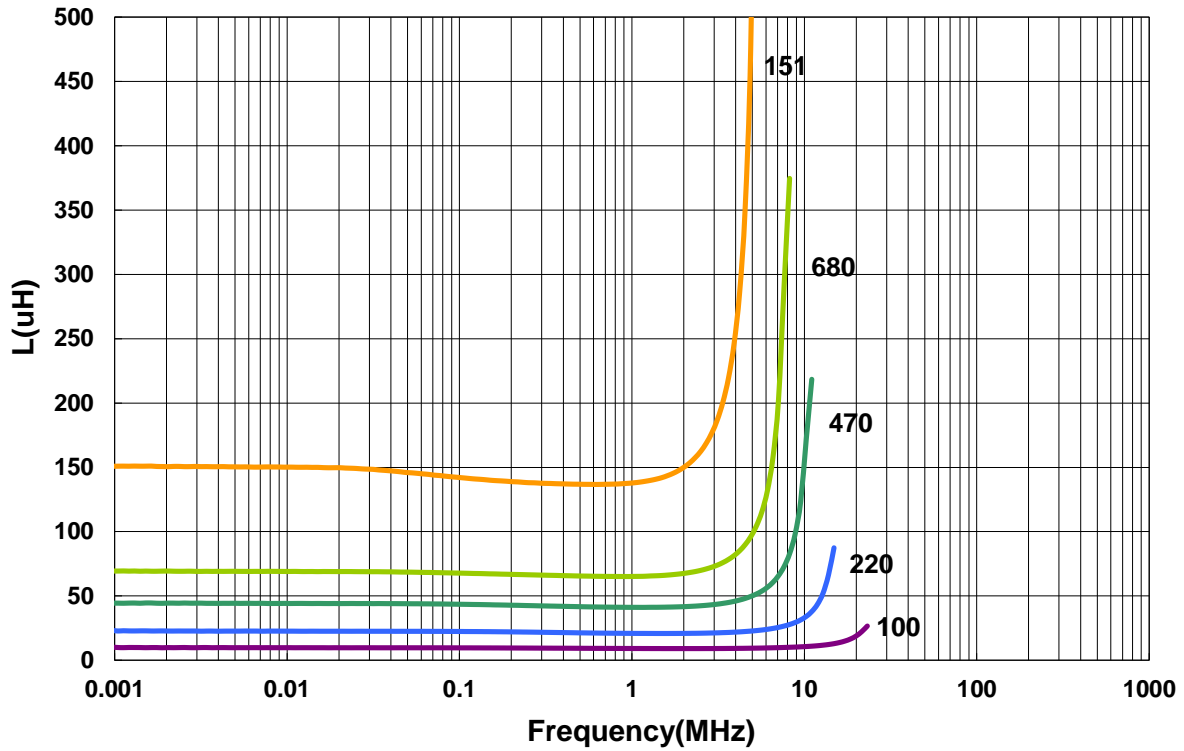
**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

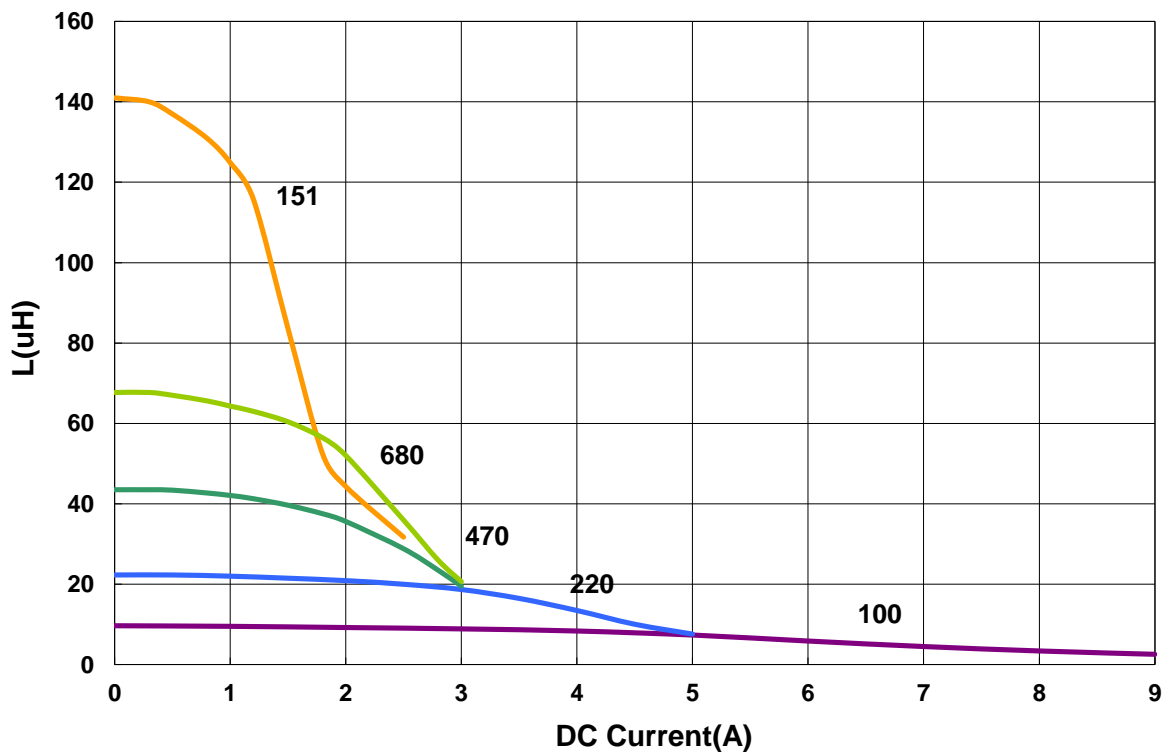
**APSC00101140 Type**

**Characteristics Graph**

**Inductance vs. Frequency Charateristics**



**Inductance vs. DC Current**

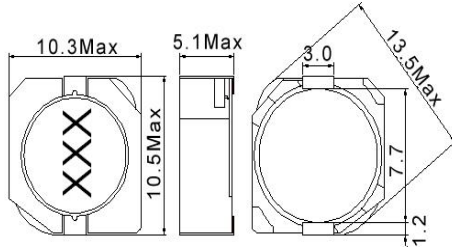


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

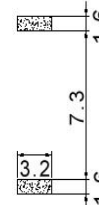
**APSC00101151 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|----------|----------------|---------|
| APSC00101151R80□00 | 0.8             | 100 kHz,1 V | 0.0043      | 13.5     | 30             | R80     |
| APSC001011511R5□00 | 1.5             | 100 kHz,1 V | 0.0058      | 10.5     | 30             | 1R5     |
| APSC001011512R2□00 | 2.2             | 100 kHz,1 V | 0.011       | 9.25     | 30             | 2R2     |
| APSC001011513R3□00 | 3.3             | 100 kHz,1 V | 0.0104      | 7.8      | 30             | 3R3     |
| APSC001011514R7□00 | 4.7             | 100 kHz,1 V | 0.0123      | 6.4      | 30             | 4R7     |
| APSC001011516R8□00 | 6.8             | 100 kHz,1 V | 0.018       | 5.4      | 30             | 6R8     |
| APSC001011518R2□00 | 8.2             | 100 kHz,1 V | 0.02        | 4.85     | 30             | 8R2     |
| APSC00101151100□00 | 10              | 100 kHz,1 V | 0.026       | 4.45     | 20,30          | 100     |
| APSC00101151120□00 | 12              | 100 kHz,1 V | 0.033       | 4        | 20,30          | 120     |
| APSC00101151150□00 | 15              | 100 kHz,1 V | 0.041       | 3.6      | 20,30          | 150     |
| APSC00101151180□00 | 18              | 100 kHz,1 V | 0.046       | 3.2      | 20,30          | 180     |
| APSC00101151220□00 | 22              | 100 kHz,1 V | 0.061       | 2.95     | 20,30          | 220     |
| APSC00101151270□00 | 27              | 100 kHz,1 V | 0.069       | 2.7      | 20,30          | 270     |
| APSC00101151330□00 | 33              | 100 kHz,1 V | 0.084       | 2.5      | 20,30          | 330     |
| APSC00101151390□00 | 39              | 100 kHz,1 V | 0.106       | 2.3      | 20,30          | 390     |
| APSC00101151470□00 | 47              | 100 kHz,1 V | 0.13        | 2        | 20,30          | 470     |
| APSC00101151560□00 | 56              | 100 kHz,1 V | 0.149       | 1.9Typ   | 20,30          | 560     |
| APSC00101151680□00 | 68              | 100 kHz,1 V | 0.201       | 1.65     | 20,30          | 680     |
| APSC00101151820□00 | 82              | 100 kHz,1 V | 0.227       | 1.5      | 20,30          | 820     |
| APSC00101151101□00 | 100             | 100 kHz,1 V | 0.253       | 1.35     | 20,30          | 101     |
| APSC00101151121□00 | 120             | 100 kHz,1 V | 0.303       | 1.28     | 20,30          | 121     |
| APSC00101151151□00 | 150             | 100 kHz,1 V | 0.37        | 1.12     | 20,30          | 151     |
| APSC00101151181□00 | 180             | 100 kHz,1 V | 0.419       | 1.04     | 20,30          | 181     |
| APSC00101151221□00 | 220             | 100 kHz,1 V | 0.5         | 0.94     | 20,30          | 221     |
| APSC00101151271□00 | 270             | 100 kHz,1 V | 0.672       | 0.84     | 20,30          | 271     |
| APSC00101151331□00 | 330             | 100 kHz,1 V | 0.812       | 0.75     | 20,30          | 331     |
| APSC00101151391□00 | 390             | 100 kHz,1 V | 0.953       | 0.7      | 20,30          | 391     |
| APSC00101151471□00 | 470             | 100 kHz,1 V | 1.29        | 0.6      | 20,30          | 471     |
| APSC00101151561□00 | 560             | 100 kHz,1 V | 1.43        | 0.54     | 20,30          | 561     |
| APSC00101151681□00 | 680             | 100 kHz,1 V | 1.6         | 0.52     | 20,30          | 681     |
| APSC00101151821□00 | 820             | 100 kHz,1 V | 1.77        | 0.5      | 20,30          | 821     |
| APSC00101151102□00 | 1000            | 100 kHz,1 V | 1.99        | 0.48     | 20,30          | 102     |

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

- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

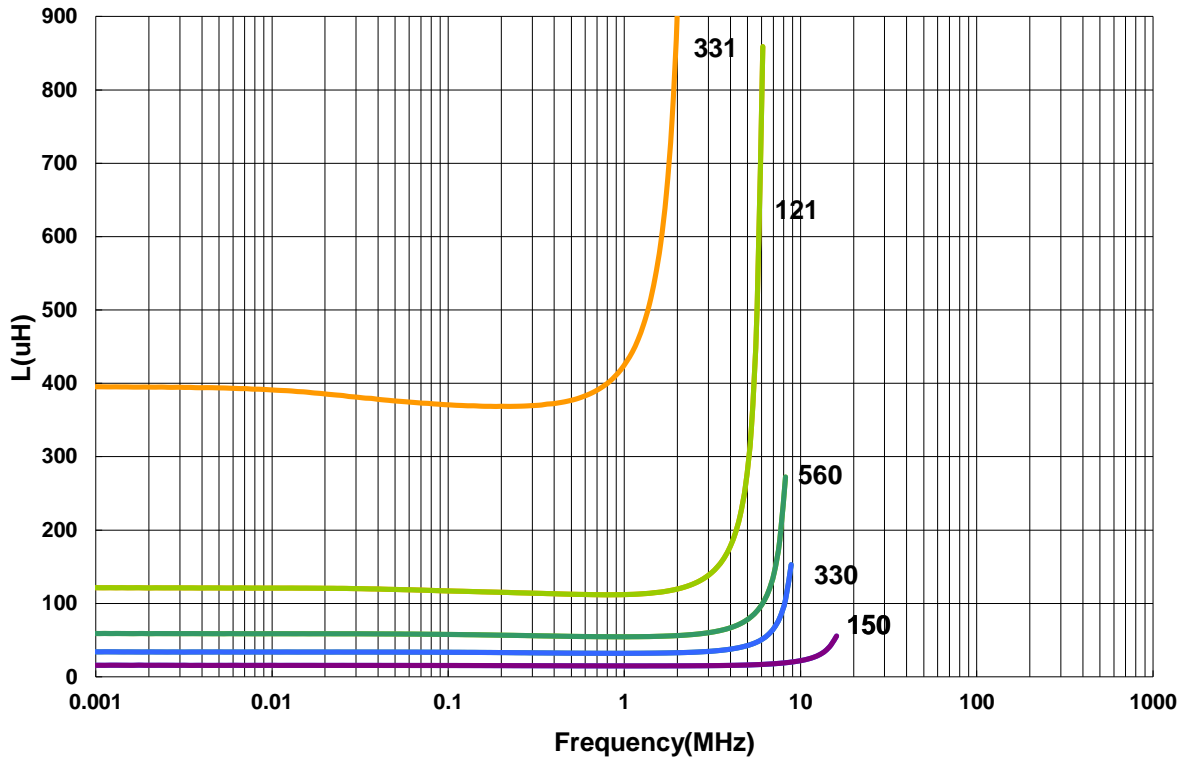
**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

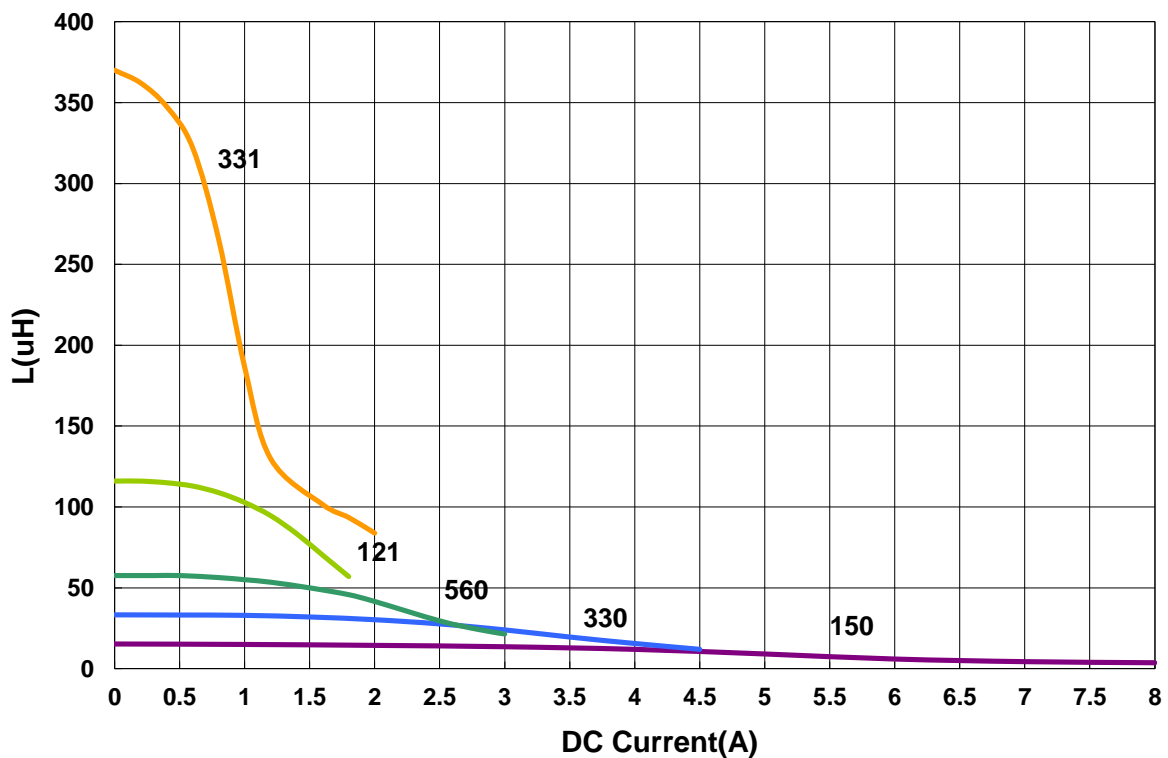
**APSC00101151 Type**

**■ Characteristics Graph**

**Inductance vs. Frequency Charateristics**



**Inductance vs. DC Current**

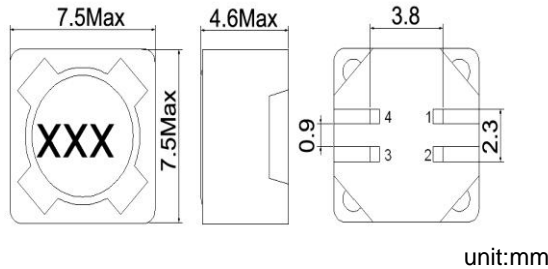


**Power Inductor APSC Series**

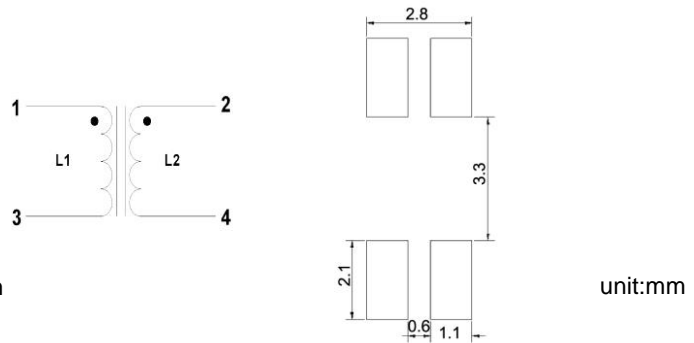
**Automotive  
AEC-Q200**

**APSC00080846 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.    | RDC (Ω)±20% | Isat(A) Max(Typ) | Irms (A)Max | Tolerance (±%) | Marking |
|--------------------|-----------------|---------------|-------------|------------------|-------------|----------------|---------|
| APSC000808462R5□P0 | 2.5             | 100 kHz,0.1 V | 0.033       | 5.0(6.3)         | 2.17        | 20             | 2R5     |
| APSC000808464R7□P0 | 4.7             | 100 kHz,0.1 V | 0.047       | 3.5(4.6)         | 1.74        | 20             | 4R7     |
| APSC00080846100□P0 | 10              | 100 kHz,0.1 V | 0.089       | 2.0(3.0)         | 1.24        | 20             | 100     |
| APSC00080846221□P0 | 220             | 100 kHz,0.1 V | 1.65        | 0.5(0.66)        | 0.30        | 20             | 221     |
| APSC00080846821□P0 | 820             | 100 kHz,0.1 V | 6           | 0.25(0.35)       | 0.15        | 20             | 821     |

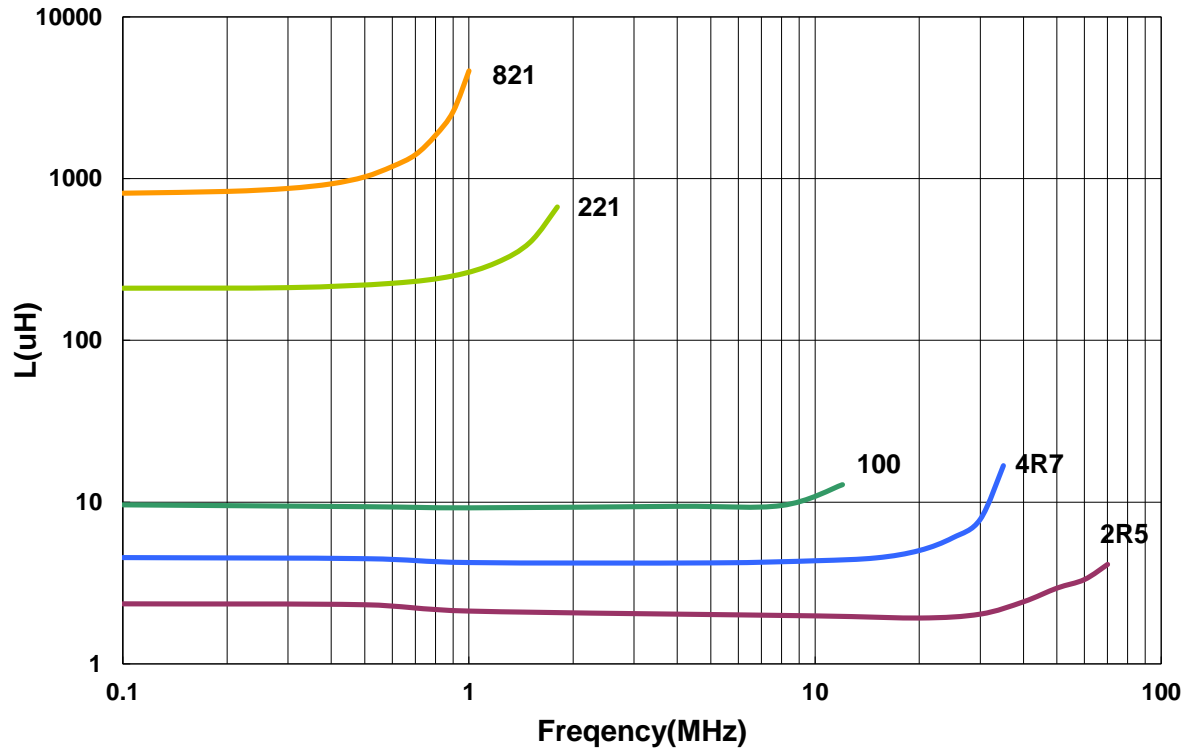
**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current
3. The actual use current is suggested not to be out of Isat\*80%
4. I rms for a 40°C temprature rise from 25°C ambient.
5. L,RDC,Isat,I rms: L1 or L2
6. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

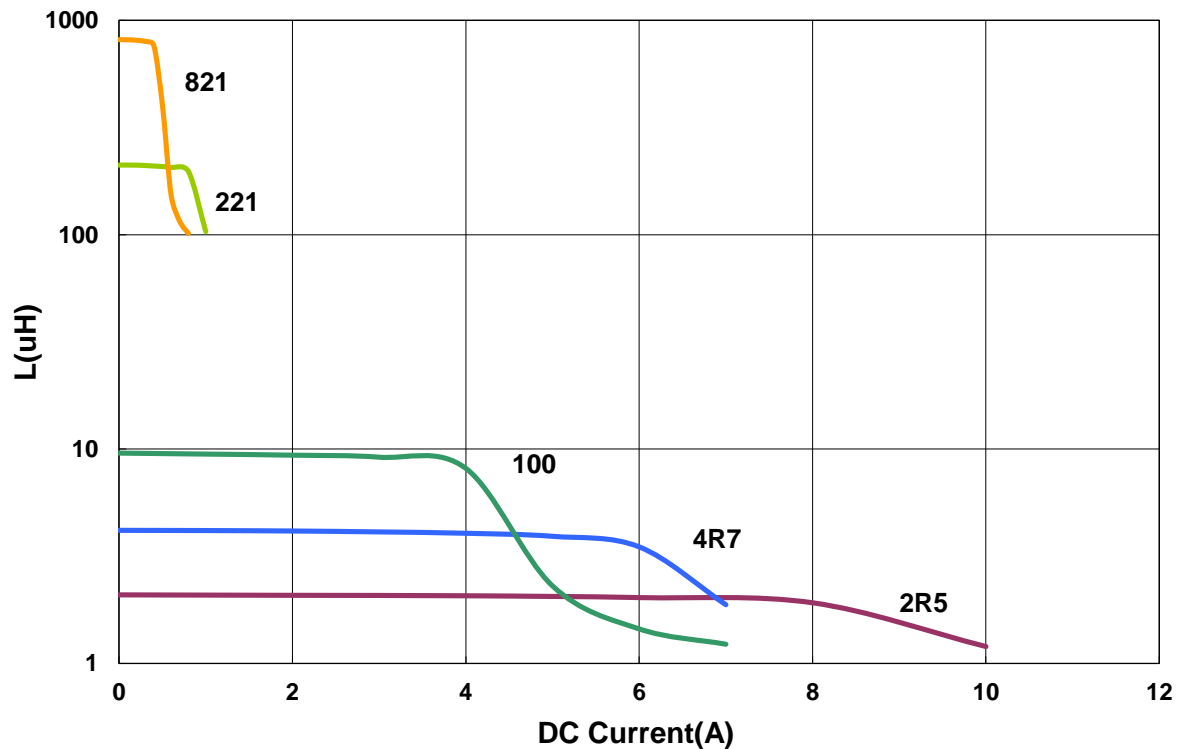
APSC00080846 Type

■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

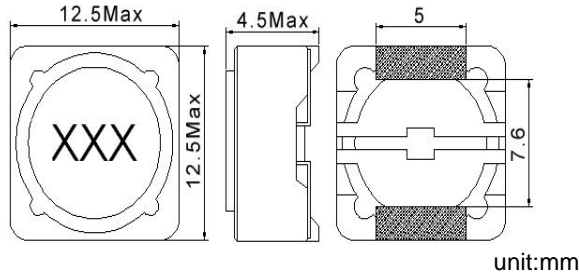


**Power Inductor APSC Series**

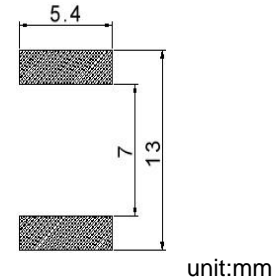
**Automotive  
AEC-Q200**

**APSC00131345 Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|----------|----------------|---------|
| APSC001313453R3□00 | 3.3             | 100 kHz,1 V | 0.015       | 6.5      | 20             | 3R3     |
| APSC001313453R9□00 | 3.9             | 100 kHz,1 V | 0.015       | 6.5      | 20             | 3R9     |
| APSC001313454R7□00 | 4.7             | 100 kHz,1 V | 0.018       | 5.7      | 20             | 4R7     |
| APSC001313456R8□00 | 6.8             | 100 kHz,1 V | 0.023       | 4.9      | 20             | 6R8     |
| APSC00131345100□00 | 10              | 100 kHz,1 V | 0.028       | 4.5      | 20             | 100     |
| APSC00131345120□00 | 12              | 100 kHz,1 V | 0.038       | 4        | 20             | 120     |
| APSC00131345150□00 | 15              | 100 kHz,1 V | 0.05        | 3.2      | 20             | 150     |
| APSC00131345180□00 | 18              | 100 kHz,1 V | 0.057       | 3.1      | 20             | 180     |
| APSC00131345220□00 | 22              | 100 kHz,1 V | 0.066       | 2.9      | 20             | 220     |
| APSC00131345270□00 | 27              | 100 kHz,1 V | 0.08        | 2.8      | 20             | 270     |
| APSC00131345330□00 | 33              | 100 kHz,1 V | 0.097       | 2.7      | 20             | 330     |
| APSC00131345390□00 | 39              | 100 kHz,1 V | 0.132       | 2.1      | 20             | 390     |
| APSC00131345470□00 | 47              | 100 kHz,1 V | 0.15        | 1.9      | 20             | 470     |
| APSC00131345560□00 | 56              | 100 kHz,1 V | 0.19        | 1.8      | 20             | 560     |
| APSC00131345680□00 | 68              | 100 kHz,1 V | 0.22        | 1.5      | 20             | 680     |
| APSC00131345820□00 | 82              | 100 kHz,1 V | 0.26        | 1.3      | 20             | 820     |
| APSC00131345101□00 | 100             | 100 kHz,1 V | 0.308       | 1.2      | 20             | 101     |
| APSC00131345121□00 | 120             | 100 kHz,1 V | 0.38        | 1.1      | 20             | 121     |
| APSC00131345151□00 | 150             | 100 kHz,1 V | 0.53        | 0.95     | 20             | 151     |
| APSC00131345181□00 | 180             | 100 kHz,1 V | 0.62        | 0.85     | 20             | 181     |
| APSC00131345221□00 | 220             | 100 kHz,1 V | 0.7         | 0.8      | 20             | 221     |
| APSC00131345271□00 | 270             | 100 kHz,1 V | 0.876       | 0.6      | 20             | 271     |

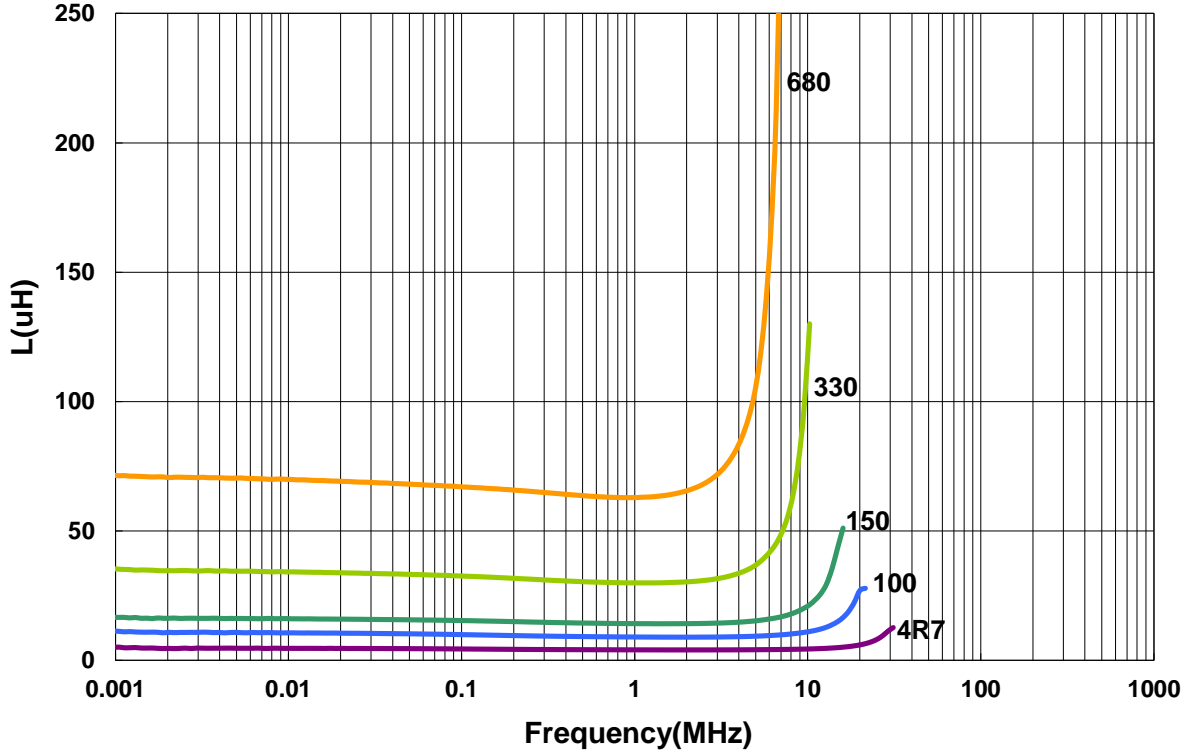
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

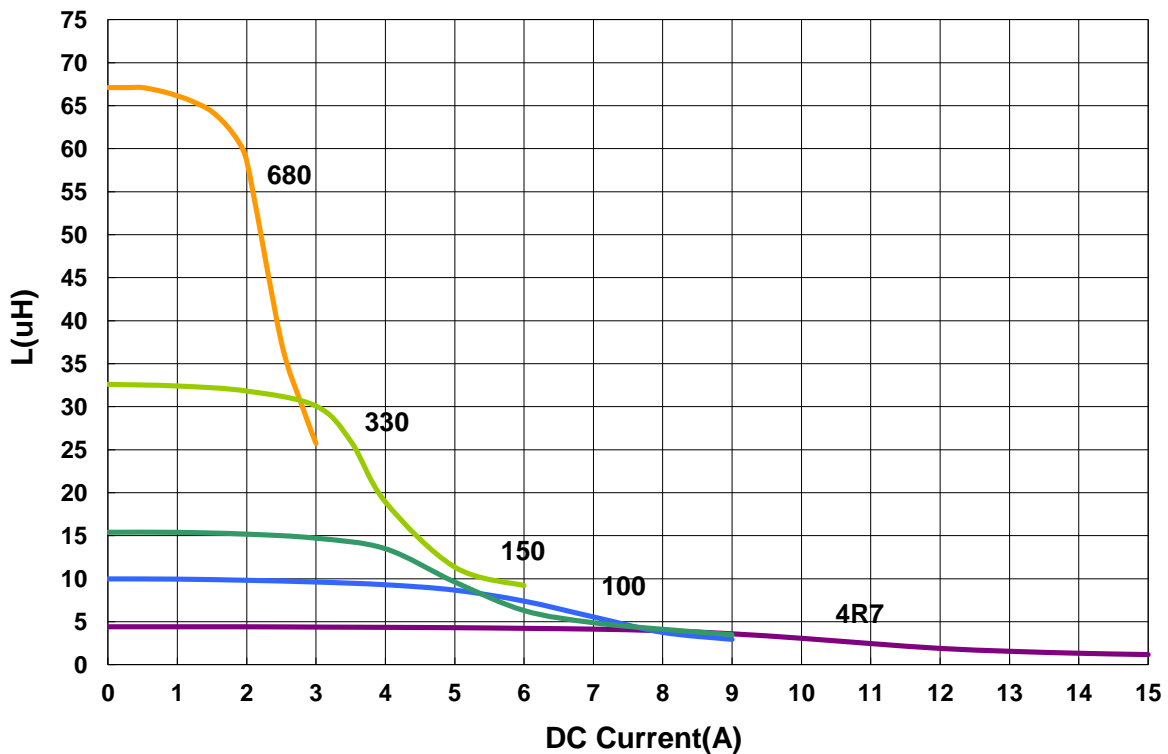
APSC00131345 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



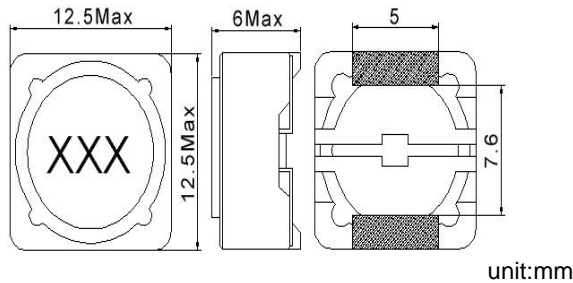


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

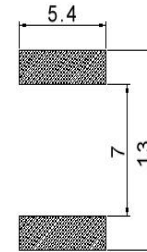
**APSC00131360 Type**

**Dimensions**



unit:mm

**Recommended Land Pattern**



unit:mm

**Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq. | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|------------|-------------|----------|----------------|---------|
| APSC001313603R3□00 | 3.3             | 1 kHz,1 V  | 0.015       | 8        | 20             | 3R3     |
| APSC001313604R7□00 | 4.7             | 1 kHz,1 V  | 0.018       | 7.6      | 20             | 4R7     |
| APSC001313606R4□00 | 6.4             | 1 kHz,1 V  | 0.018       | 5.8      | 20             | 6R4     |
| APSC001313608R2□00 | 8.2             | 1 kHz,1 V  | 0.025       | 5        | 20             | 8R2     |
| APSC00131360100□00 | 10              | 1 kHz,1 V  | 0.025       | 4        | 20             | 100     |
| APSC00131360120□00 | 12              | 1 kHz,1 V  | 0.027       | 3.5      | 20             | 120     |
| APSC00131360150□00 | 15              | 1 kHz,1 V  | 0.03        | 3.3      | 20             | 150     |
| APSC00131360180□00 | 18              | 1 kHz,1 V  | 0.034       | 3        | 20             | 180     |
| APSC00131360220□00 | 22              | 1 kHz,1 V  | 0.036       | 2.8      | 20             | 220     |
| APSC00131360270□00 | 27              | 1 kHz,1 V  | 0.051       | 2.3      | 20             | 270     |
| APSC00131360330□00 | 33              | 1 kHz,1 V  | 0.057       | 2.1      | 20             | 330     |
| APSC00131360390□00 | 39              | 1 kHz,1 V  | 0.068       | 2        | 20             | 390     |
| APSC00131360470□00 | 47              | 1 kHz,1 V  | 0.075       | 1.8      | 20             | 470     |
| APSC00131360560□00 | 56              | 1 kHz,1 V  | 0.11        | 1.7      | 20             | 560     |
| APSC00131360680□00 | 68              | 1 kHz,1 V  | 0.12        | 1.5      | 20             | 680     |
| APSC00131360820□00 | 82              | 1 kHz,1 V  | 0.14        | 1.4      | 20             | 820     |
| APSC00131360101□00 | 100             | 1 kHz,1 V  | 0.16        | 1.3      | 20             | 101     |
| APSC00131360121□00 | 120             | 1 kHz,1 V  | 0.17        | 1.1      | 20             | 121     |
| APSC00131360151□00 | 150             | 1 kHz,1 V  | 0.23        | 1        | 20             | 151     |
| APSC00131360181□00 | 180             | 1 kHz,1 V  | 0.29        | 0.9      | 20             | 181     |
| APSC00131360221□00 | 220             | 1 kHz,1 V  | 0.4         | 0.8      | 20             | 221     |
| APSC00131360271□00 | 270             | 1 kHz,1 V  | 0.46        | 0.75     | 20             | 271     |
| APSC00131360331□00 | 330             | 1 kHz,1 V  | 0.51        | 0.68     | 20             | 331     |
| APSC00131360391□00 | 390             | 1 kHz,1 V  | 0.69        | 0.65     | 20             | 391     |
| APSC00131360471□00 | 470             | 1 kHz,1 V  | 0.77        | 0.58     | 20             | 471     |
| APSC00131360561□00 | 560             | 1 kHz,1 V  | 0.86        | 0.54     | 20             | 561     |
| APSC00131360681□00 | 680             | 1 kHz,1 V  | 1.2         | 0.48     | 20             | 681     |
| APSC00131360821□00 | 820             | 1 kHz,1 V  | 1.34        | 0.43     | 20             | 821     |
| APSC00131360102□00 | 1000            | 1 kHz,1 V  | 1.53        | 0.4      | 20             | 102     |
| APSC00131360302□00 | 3000            | 1 kHz,1 V  | 6           | 0.25     | 20             | 302     |

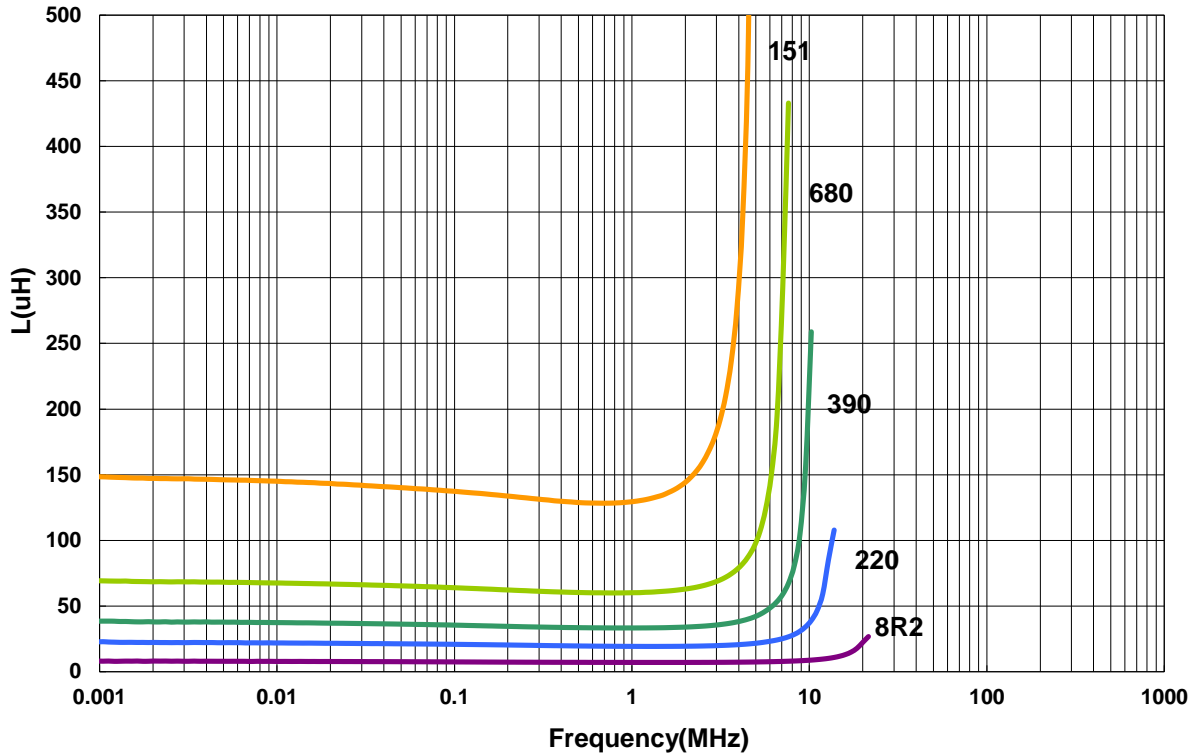
**Note: When ordering, please specify tolerance code. Tolerance: M=±20%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 35% from its value without current
3. Measure Equipment:  
 L: Agilent E4980 or HP4284A  
 RDC: CH502BC  
 Isat: HP4284+42841A or WK3260B+WK3265B

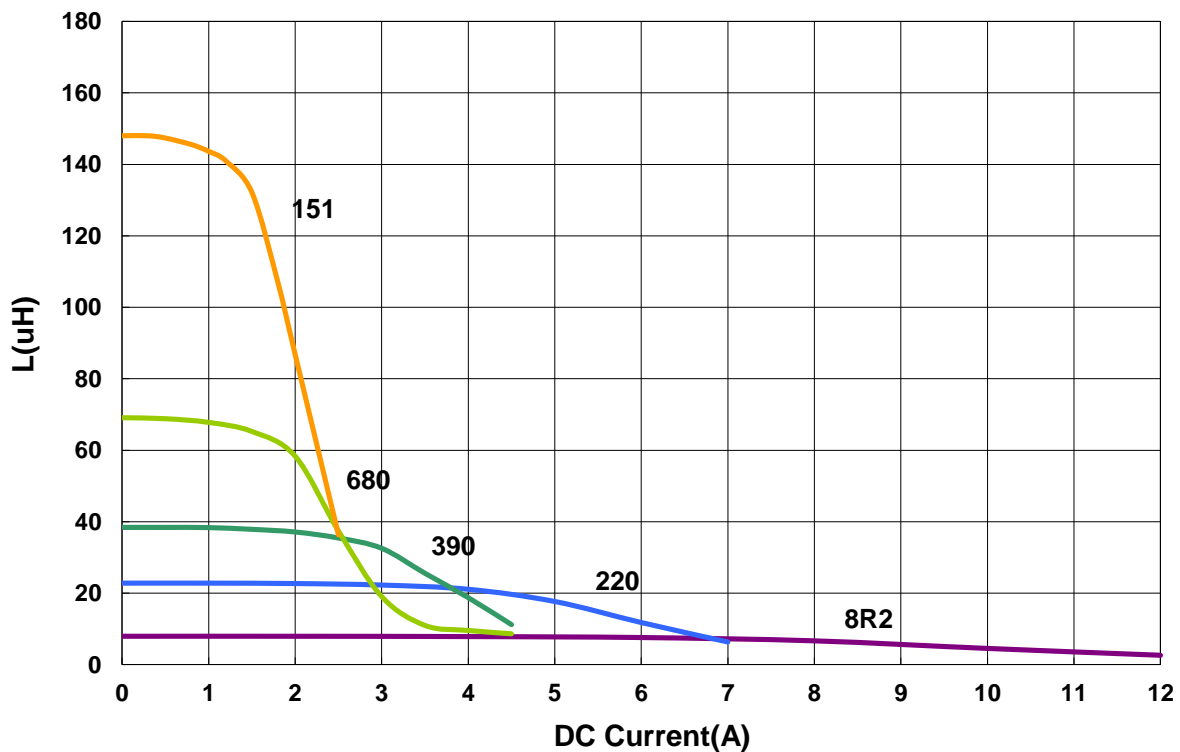
APSC00131360 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

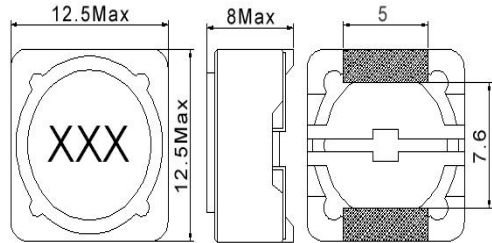


**Power Inductor APSC Series**

**Automotive  
AEC-Q200**

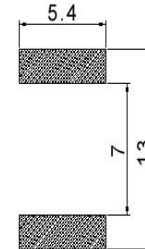
**APSC00131380 Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

| Part No.           | Inductance (uH) | Test Freq.  | RDC (Ω)Max. | Isat (A) | Tolerance (±%) | Marking |
|--------------------|-----------------|-------------|-------------|----------|----------------|---------|
| APSC001313801R5□00 | 1.5             | 100 kHz,1 V | 0.008       | 9.5      | 30             | 1R5     |
| APSC001313802R2□00 | 2.2             | 100 kHz,1 V | 0.0115      | 8        | 20,30          | 2R2     |
| APSC001313803R3□00 | 3.3             | 100 kHz,1 V | 0.0135      | 7.5      | 30             | 3R3     |
| APSC001313804R7□00 | 4.7             | 100 kHz,1 V | 0.0158      | 6.8      | 20,30          | 4R7     |
| APSC001313806R1□00 | 6.1             | 100 kHz,1 V | 0.0176      | 6.6      | 20,30          | 6R1     |
| APSC001313806R8□00 | 6.8             | 100 kHz,1 V | 0.02        | 6.2      | 20,30          | 6R8     |
| APSC001313807R6□00 | 7.6             | 100 kHz,1 V | 0.02        | 5.9      | 20,30          | 7R6     |
| APSC00131380100□00 | 10              | 1 kHz,1 V   | 0.0216      | 5.4      | 20             | 100     |
| APSC00131380120□00 | 12              | 1 kHz,1 V   | 0.0243      | 4.9      | 20             | 120     |
| APSC00131380150□00 | 15              | 1 kHz,1 V   | 0.027       | 4.5      | 20             | 150     |
| APSC00131380180□00 | 18              | 1 kHz,1 V   | 0.0392      | 3.9      | 20             | 180     |
| APSC00131380220□00 | 22              | 1 kHz,1 V   | 0.0432      | 3.6      | 20             | 220     |
| APSC00131380270□00 | 27              | 1 kHz,1 V   | 0.0459      | 3.4      | 20             | 270     |
| APSC00131380330□00 | 33              | 1 kHz,1 V   | 0.0648      | 3        | 20             | 330     |
| APSC00131380390□00 | 39              | 1 kHz,1 V   | 0.0729      | 2.75     | 20             | 390     |
| APSC00131380470□00 | 47              | 1 kHz,1 V   | 0.1         | 2.5      | 20             | 470     |
| APSC00131380560□00 | 56              | 1 kHz,1 V   | 0.11        | 2.35     | 20             | 560     |
| APSC00131380680□00 | 68              | 1 kHz,1 V   | 0.14        | 2.1      | 20             | 680     |
| APSC00131380820□00 | 82              | 1 kHz,1 V   | 0.16        | 1.95     | 20             | 820     |
| APSC00131380101□00 | 100             | 1 kHz,1 V   | 0.22        | 1.7      | 20             | 101     |
| APSC00131380121□00 | 120             | 1 kHz,1 V   | 0.25        | 1.6      | 20             | 121     |
| APSC00131380151□00 | 150             | 1 kHz,1 V   | 0.28        | 1.42     | 20             | 151     |
| APSC00131380181□00 | 180             | 1 kHz,1 V   | 0.35        | 1.3      | 20             | 181     |
| APSC00131380221□00 | 220             | 1 kHz,1 V   | 0.39        | 1.16     | 20             | 221     |
| APSC00131380271□00 | 270             | 1 kHz,1 V   | 0.56        | 1.06     | 20             | 271     |
| APSC00131380331□00 | 330             | 1 kHz,1 V   | 0.64        | 0.95     | 20             | 331     |
| APSC00131380391□00 | 390             | 1 kHz,1 V   | 0.7         | 0.88     | 20             | 391     |
| APSC00131380471□00 | 470             | 1 kHz,1 V   | 0.98        | 0.79     | 20             | 471     |
| APSC00131380561□00 | 560             | 1 kHz,1 V   | 1.07        | 0.73     | 20             | 561     |
| APSC00131380681□00 | 680             | 1 kHz,1 V   | 1.46        | 0.67     | 20             | 681     |
| APSC00131380821□00 | 820             | 1 kHz,1 V   | 1.64        | 0.6      | 20             | 821     |
| APSC00131380102□00 | 1000            | 1 kHz,1 V   | 1.82        | 0.55     | 20             | 102     |

**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 35% from its value without current
3. Measure Equipment:

L: Agilent E4980 or HP4284A

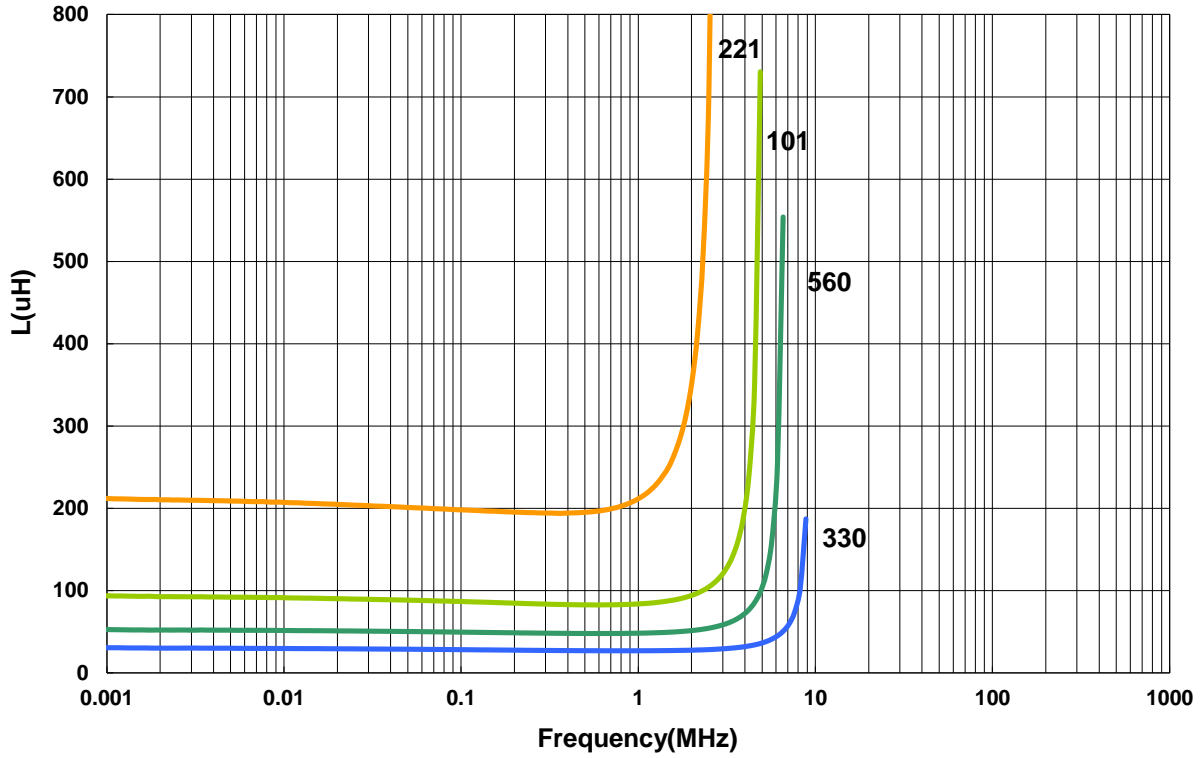
RDC: CH502BC

Isat: HP4284+42841A or WK3260B+WK3265B

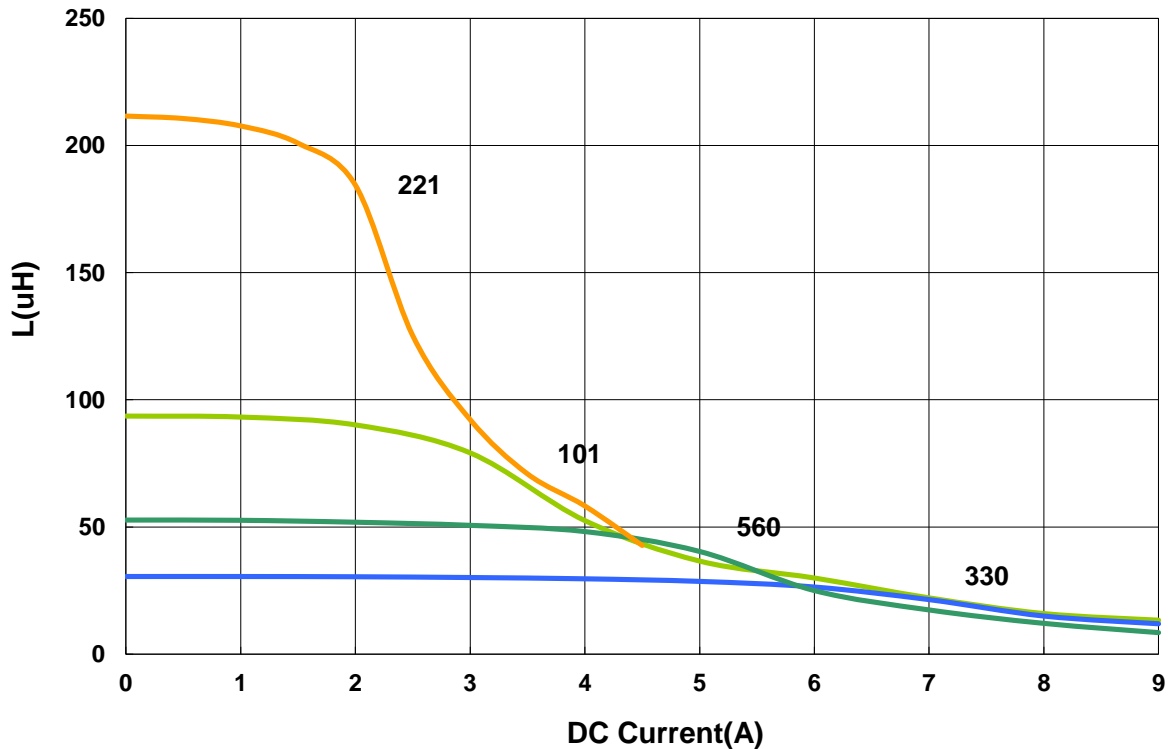
APSC00131380 Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current

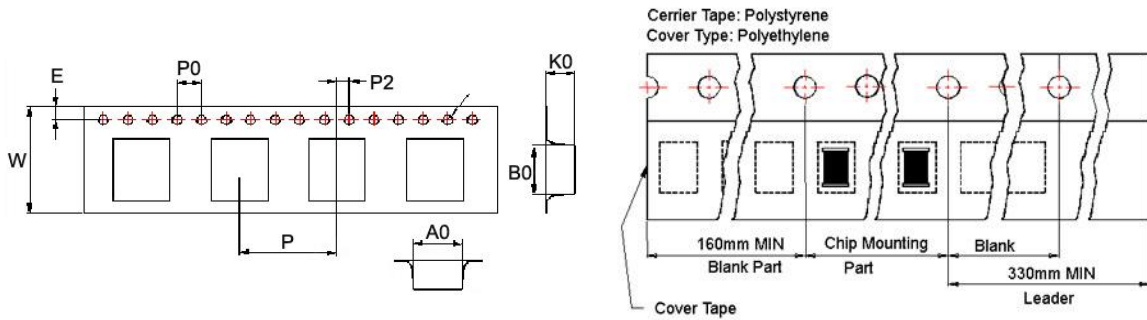


**Power Inductor APSC Series**

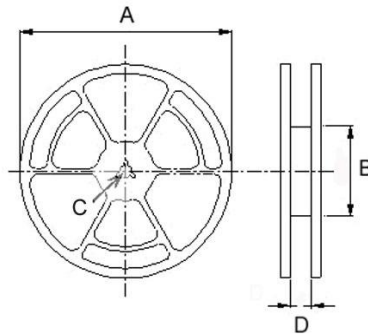
**Automotive  
AEC-Q200**

**■ Packaging**

Tape Dimensions



Reel Dimensions



Dimensions in mm

| TYPE         | Tape Dimensions |       |      |      |      |    |    |    |    | Reel Dimensions |     |    |      | Quantity<br>PCS / REEL |
|--------------|-----------------|-------|------|------|------|----|----|----|----|-----------------|-----|----|------|------------------------|
|              | A0              | B0    | K0   | D    | E    | W  | P  | P0 | P2 | A               | B   | C  | D    |                        |
| APSC00030316 | 3.35            | 3.35  | 1.7  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13.2 | 1000                   |
| APSC00040418 | 4.1             | 4.1   | 2.0  | 1.50 | 1.75 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13.2 | 1000                   |
| APSC00040430 | 4.2             | 4.2   | 3.2  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 178             | 60  | 13 | 13.2 | 500                    |
| APSC00050220 | 5.3             | 5.3   | 2.4  | 1.50 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | 2000                   |
| APSC00050530 | 5.3             | 5.3   | 3.4  | 1.50 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | 2000                   |
| APSC00050540 | 5.35            | 5.35  | 4.1  | 1.55 | 1.75 | 12 | 8  | 4  | 2  | 330             | 100 | 13 | 13.4 | 1000                   |
| APSC00060620 | 6.2             | 6.2   | 2.2  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 13.4 | 1500                   |
| APSC00060630 | 6.2             | 6.2   | 3.1  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | 1500                   |
| APSC00070730 | 7.25            | 7.25  | 3.35 | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | 1500                   |
| APSC00070740 | 7.1             | 7.1   | 4.1  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 17.4 | 1000                   |
| APSC00101131 | 10.6            | 10.75 | 4.2  | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 300             | 100 | 13 | 24.4 | 1000                   |
| APSC00101140 | 10.6            | 10.75 | 4.2  | 1.50 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | 1000                   |
| APSC00101151 | 10.6            | 10.6  | 5.0  | 1.50 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | 500                    |
| APSC00080846 | 7.6             | 7.6   | 5.0  | 1.55 | 1.75 | 16 | 12 | 4  | 2  | 330             | 100 | 13 | 16.0 | 1000                   |
| APSC00131345 | 13.0            | 12.8  | 5.1  | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | 500                    |
| APSC00131360 | 12.6            | 12.6  | 6.7  | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | 600                    |
| APSC00131380 | 12.6            | 12.6  | 8.7  | 1.55 | 1.75 | 24 | 16 | 4  | 2  | 330             | 100 | 13 | 24.4 | 500                    |