

# DATA SHEET

## INDUCTOR

Power Inductor

APSC Series

RoHS compliant & Halogen Free



## Power Inductor APSC Series

Automotive  
AEC-Q200

RoHS Compliant  
Halogen Free  
REACH Compliant

Power  
Circuit

Shield

Wire  
Wound

Ferrite

## ■ Part Numbering

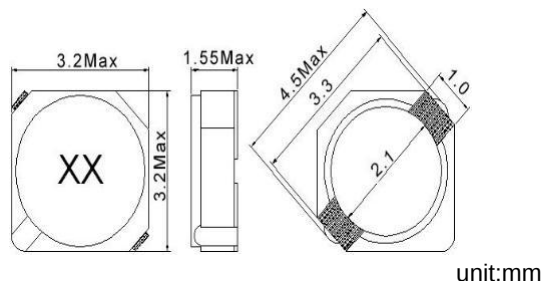
| A     | PSC         | 00           | 131380                  | 100                | M         | 00            |
|-------|-------------|--------------|-------------------------|--------------------|-----------|---------------|
| Grade | Series Name | Control Code | Dimensions Code<br>(mm) | Inductance<br>(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    |                    |           |               |

## Power Inductor APSC Series

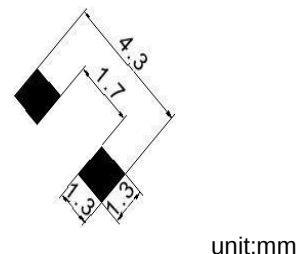
**Automotive**  
**AEC-Q200**

### APSC00030316 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

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

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

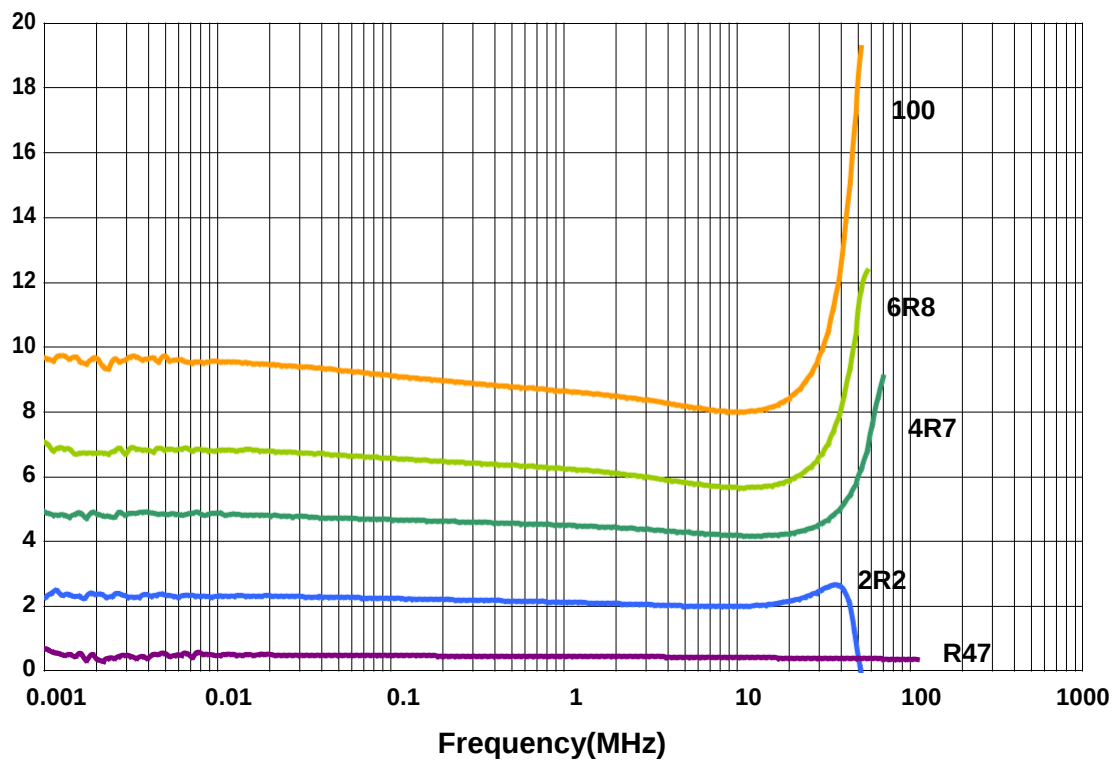
## Power Inductor APSC Series

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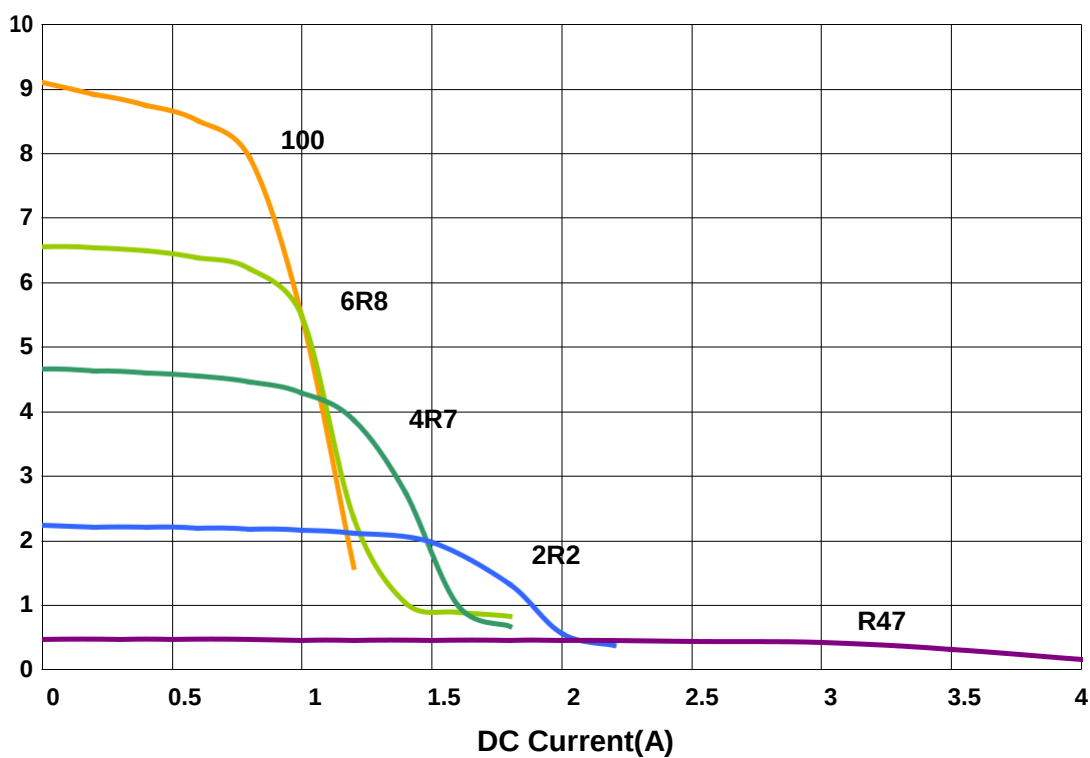
APSC00030316 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

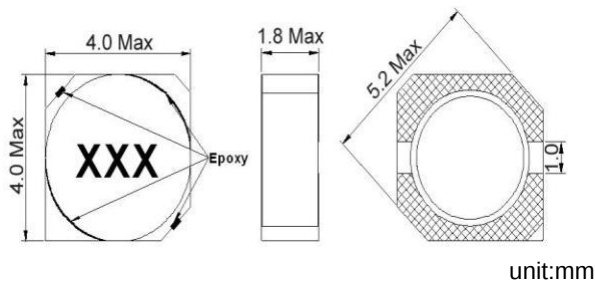


## Power Inductor APSC Series

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AEC-Q200

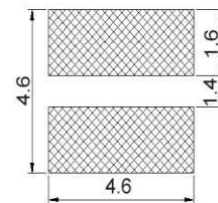
## APSC00040418 Type

## ■ Dimensions



unit:mm

## ■ Recommended Land Pattern



unit:mm

## ■ Electrical Characteristics

| Part No.           | Inductance<br>( $\mu$ H) | Test Freq.     | RDC<br>( $\Omega$ )Max. | Isat(A)<br>Max(Typ) | Tolerance<br>( $\pm$ %) | Marking |
|--------------------|--------------------------|----------------|-------------------------|---------------------|-------------------------|---------|
| APSC000404181R0□S0 | 1                        | 100 kHz, 0.1 V | 0.04                    | 1.35(1.7)           | 30                      | 1R0     |
| APSC000404181R5□S0 | 1.5                      | 100 kHz, 0.1 V | 0.052                   | 1.25(1.6)           | 30                      | 1R5     |
| APSC000404182R2□S0 | 2.2                      | 100 kHz, 0.1 V | 0.072                   | 1.0(1.3)            | 30                      | 2R2     |
| APSC000404183R3□S0 | 3.3                      | 100 kHz, 0.1 V | 0.085                   | 0.88(1.1)           | 30                      | 3R3     |
| APSC000404183R6□S0 | 3.6                      | 100 kHz, 0.1 V | 0.09                    | 0.74(0.93)          | 30                      | 3R6     |
| APSC000404184R7□S0 | 4.7                      | 100 kHz, 0.1 V | 0.105                   | 0.72(0.9)           | 30                      | 4R7     |
| APSC000404186R8□S0 | 6.8                      | 100 kHz, 0.1 V | 0.17                    | 0.61(0.74)          | 30                      | 6R8     |
| APSC00040418100□S0 | 10                       | 100 kHz, 0.1 V | 0.21                    | 0.55(0.6)           | 20,30                   | 100     |
| APSC00040418150□S0 | 15                       | 100 kHz, 0.1 V | 0.295                   | 0.45(0.52)          | 20,30                   | 150     |
| APSC00040418220□S0 | 22                       | 100 kHz, 0.1 V | 0.43                    | 0.32(0.4)           | 20,30                   | 220     |
| APSC00040418270□S0 | 27                       | 100 kHz, 0.1 V | 0.62                    | 0.3(0.37)           | 30                      | 270     |
| APSC00040418330□S0 | 33                       | 100 kHz, 0.1 V | 0.675                   | 0.26(0.32)          | 30                      | 330     |
| APSC00040418680□S0 | 68                       | 100 kHz, 0.1 V | 1.7                     | 0.16(0.21)          | 30                      | 680     |

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

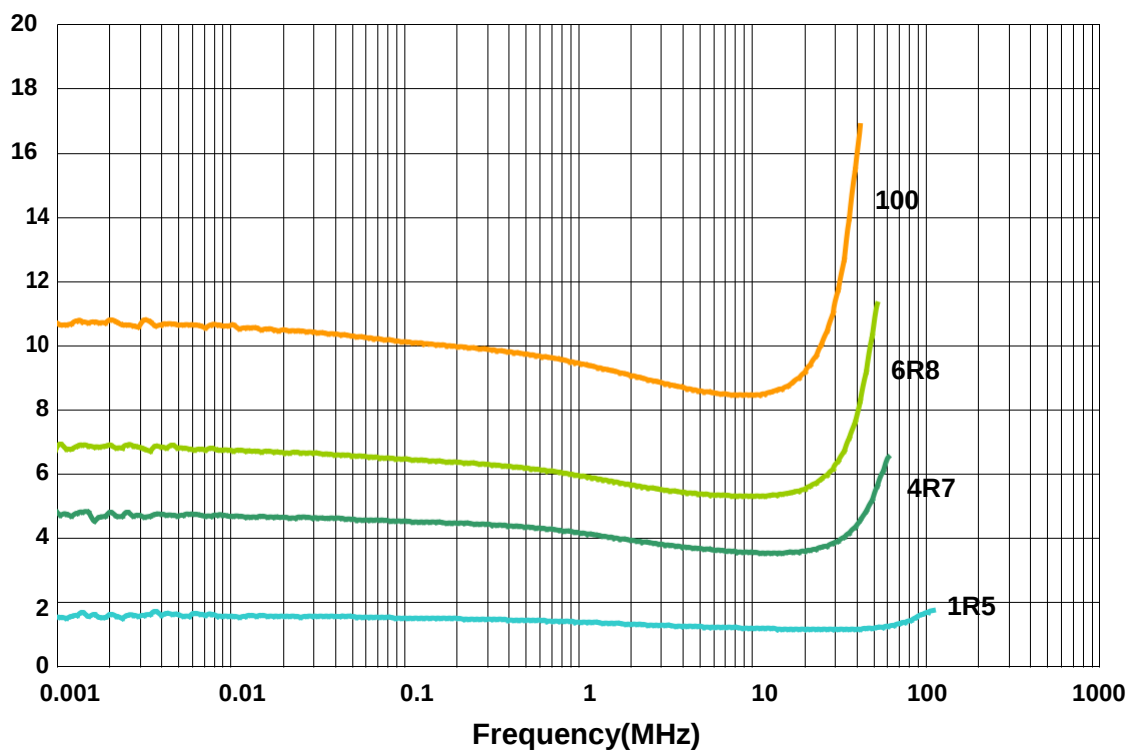
## Power Inductor APSC Series

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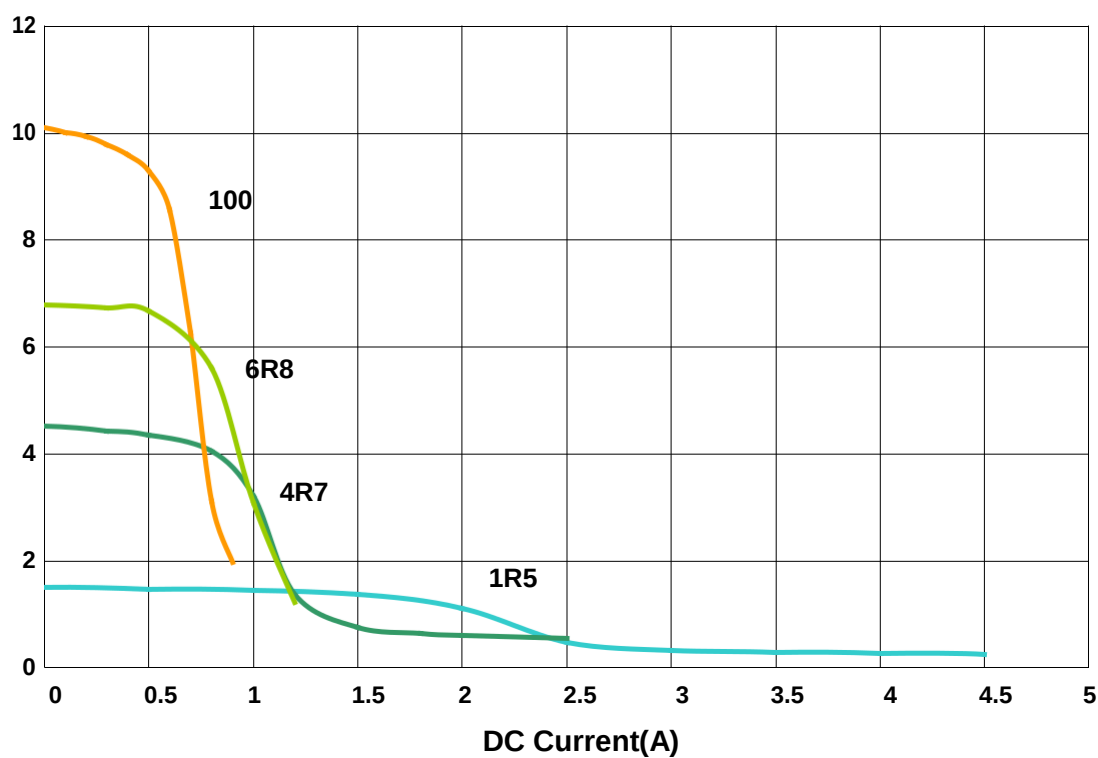
APSC00040418 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

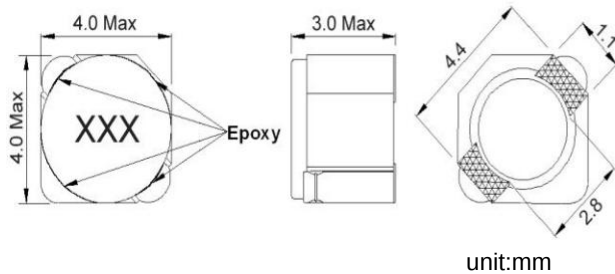


## Power Inductor APSC Series

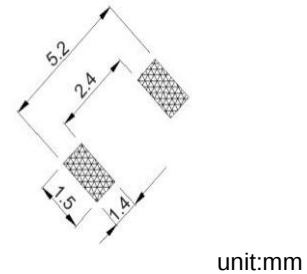
Automotive  
AEC-Q200

## APSC00040430 Type

## ■ Dimensions



## ■ Recommended Land Pattern



## ■ Electrical Characteristics

| Part No.           | Inductance<br>( $\mu$ H) | Test Freq.   | RDC<br>( $\Omega$ )Max. | Isat (A)<br>Max(Typ) | Irms<br>(A)Typ. | Tolerance<br>( $\pm$ %) | 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. Irms 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

Irms:HP4284A+HP42841A or WK3260B+WK3265B

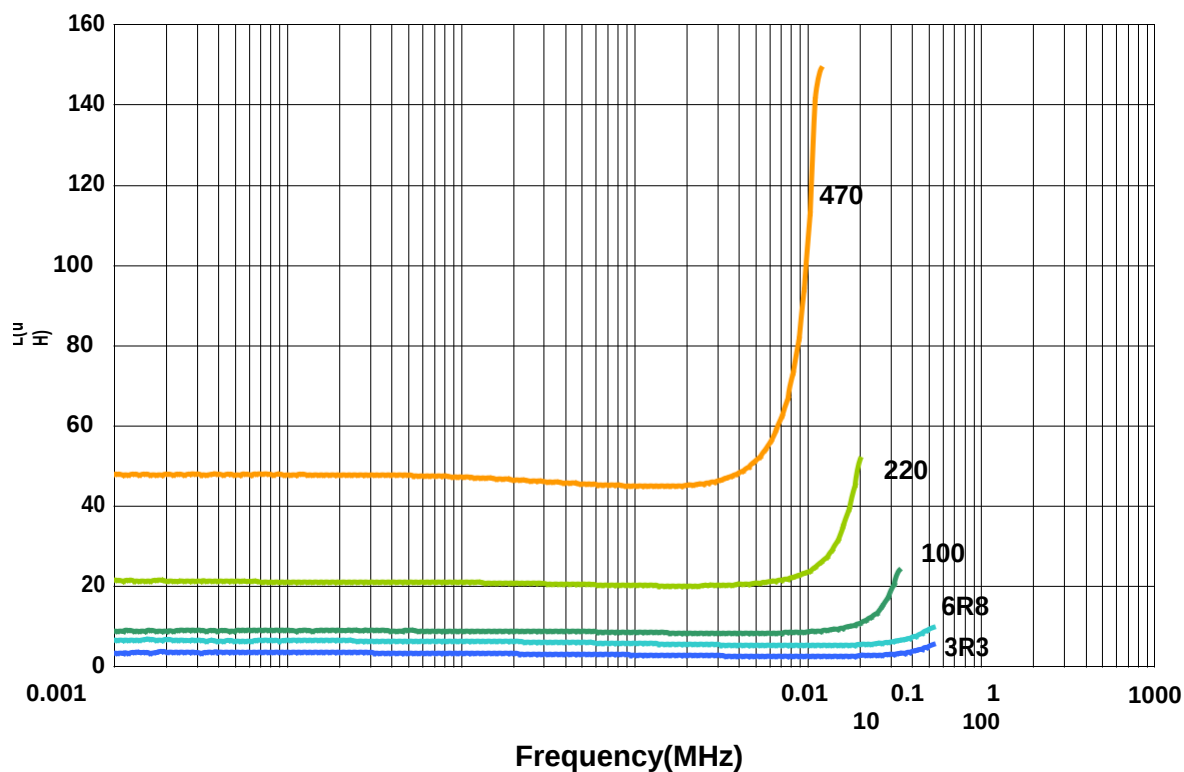
## Power Inductor APSC Series

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AEC-Q200

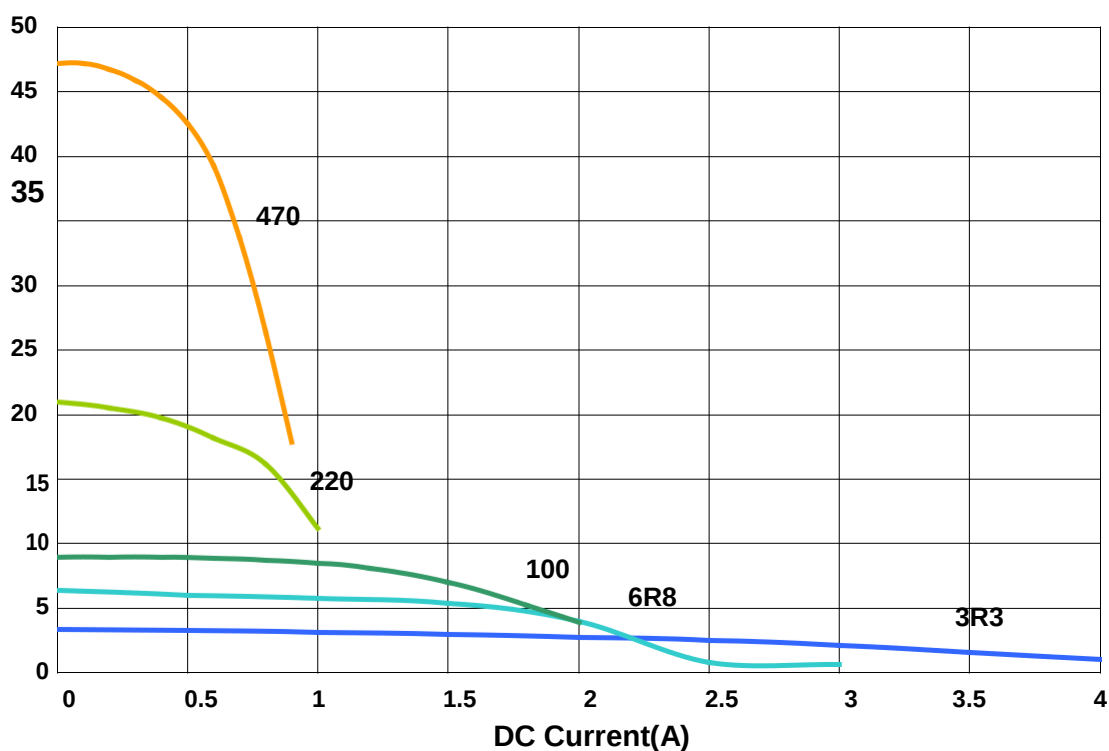
APSC00040430 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

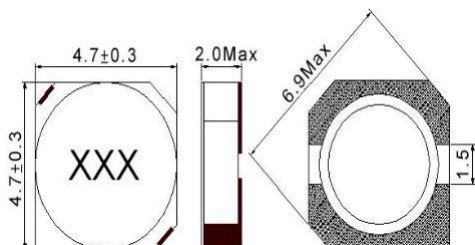


## Power Inductor APSC Series

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

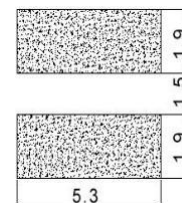
### APSC00050520 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

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

- 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

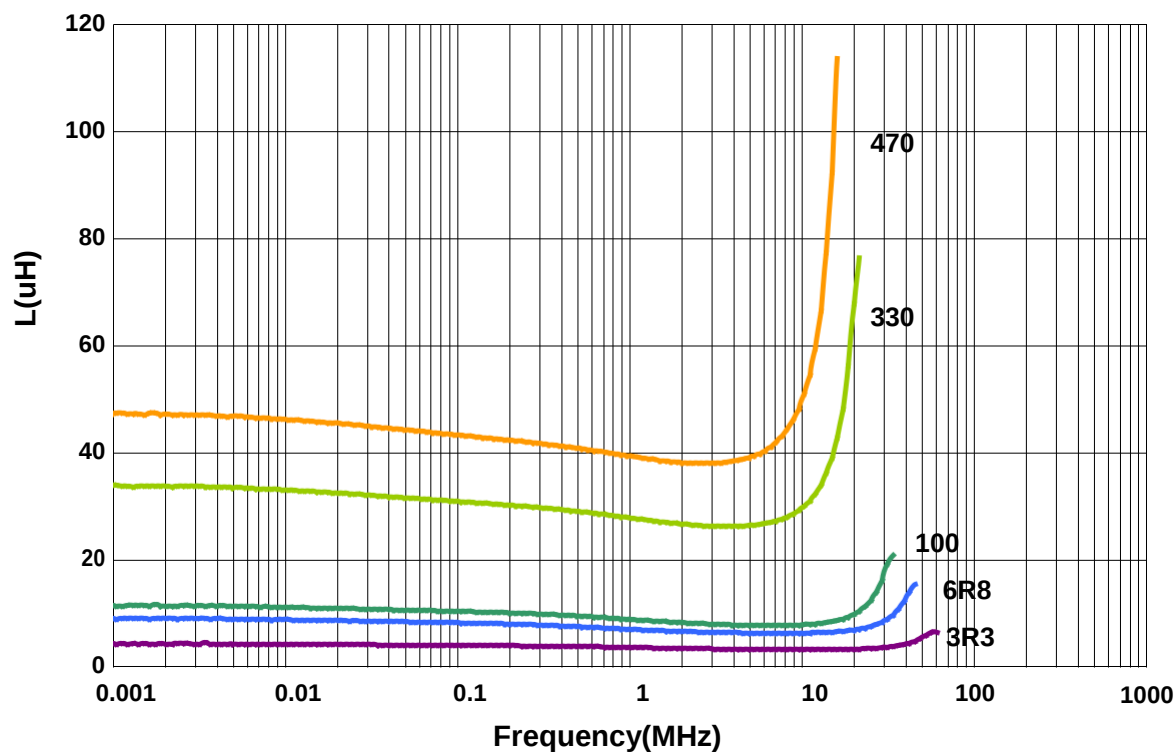
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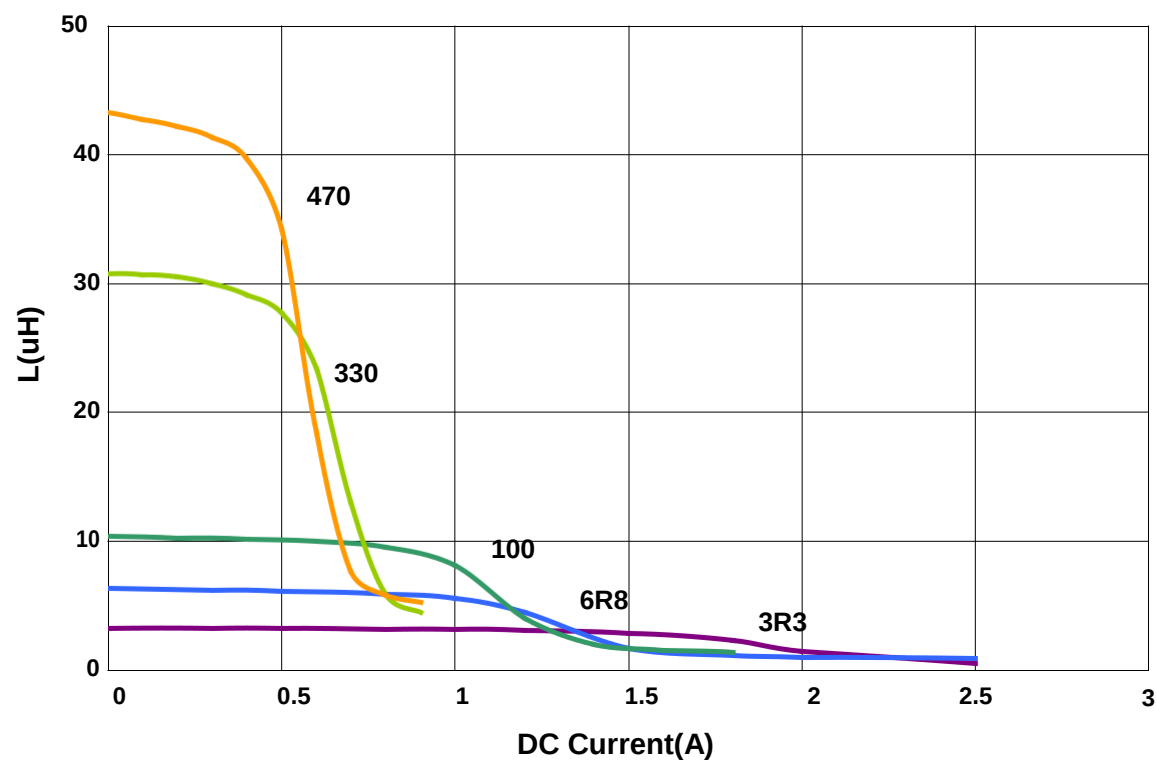
APSC00050520 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

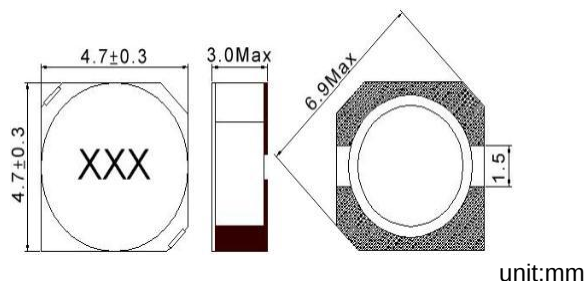


## Power Inductor APSC Series

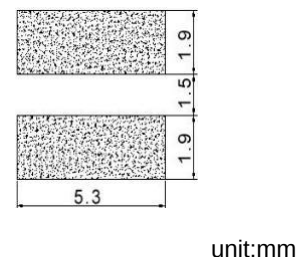
Automotive  
AEC-Q200

### APSC00050530 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.  | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | 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     |
| APSC00050530100□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     |

**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

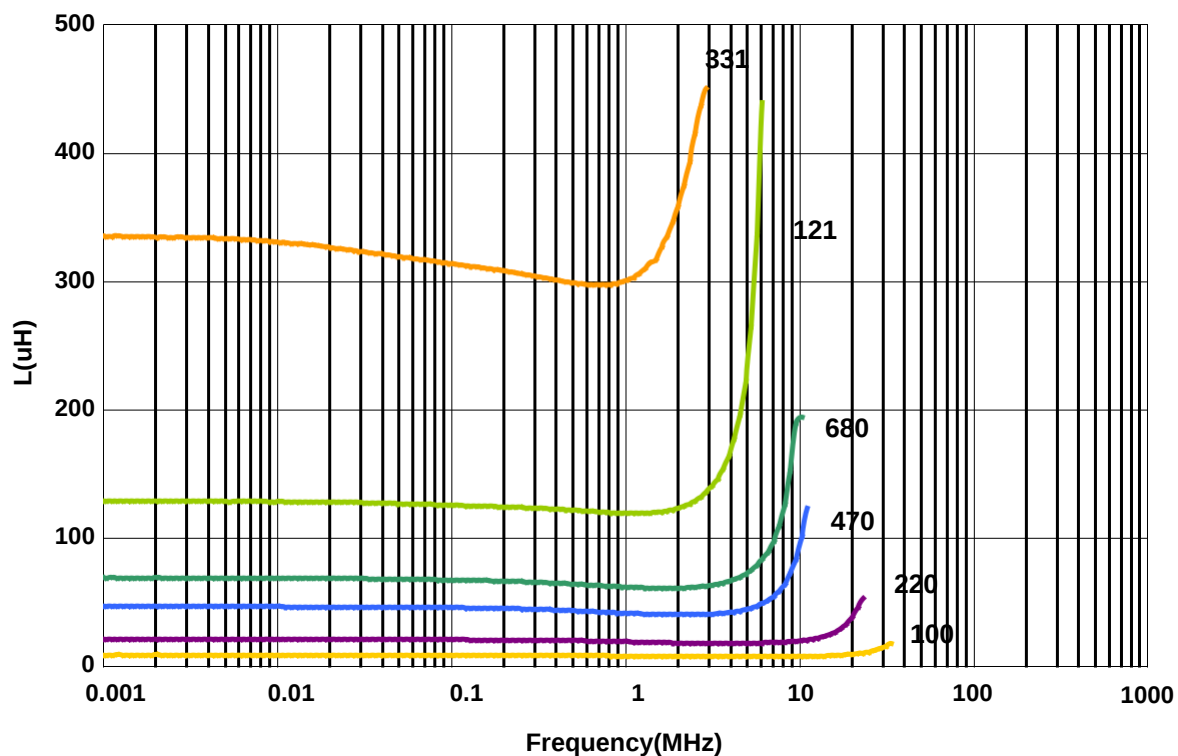
## Power Inductor APSC Series

Automotive  
AEC-Q200

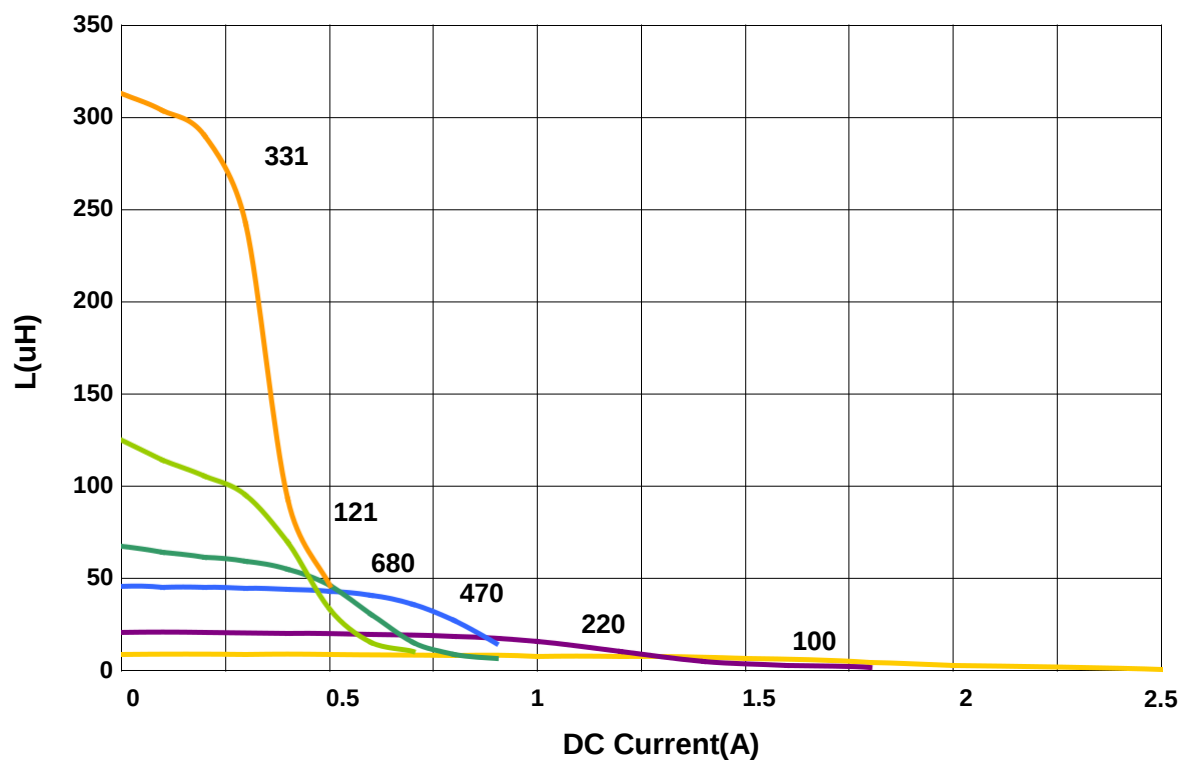
APSC00050530 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

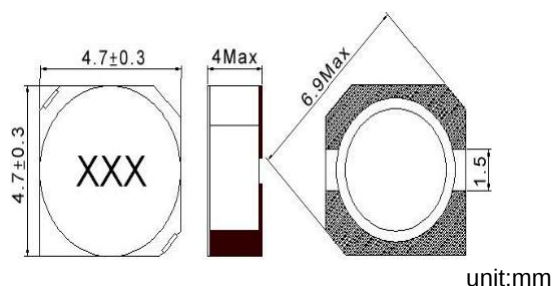


## Power Inductor APSC Series

Automotive  
AEC-Q200

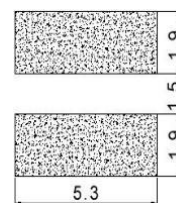
## APSC00050540 Type

## ■ Dimensions



unit:mm

## ■ Recommended Land Pattern



unit:mm

## ■ Electrical Characteristics

| Part No.           | Inductance<br>( $\mu\text{H}$ ) | Test Freq.   | RDC<br>( $\Omega$ )Max. | Isat(A)<br>Max(Typ) | Irms<br>(A)Typ. | Tolerance<br>( $\pm\%$ ) | 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= $\pm 20\%$  / T= $\pm 30\%$

- 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 temprature rise from 25°C ambient with current
- Measure Equipment:
  - L: Agilent E4980 or HP4284A
  - RDC: CH502BC
  - Rate current: HP4284+42841A or WK3260B+WK3265B

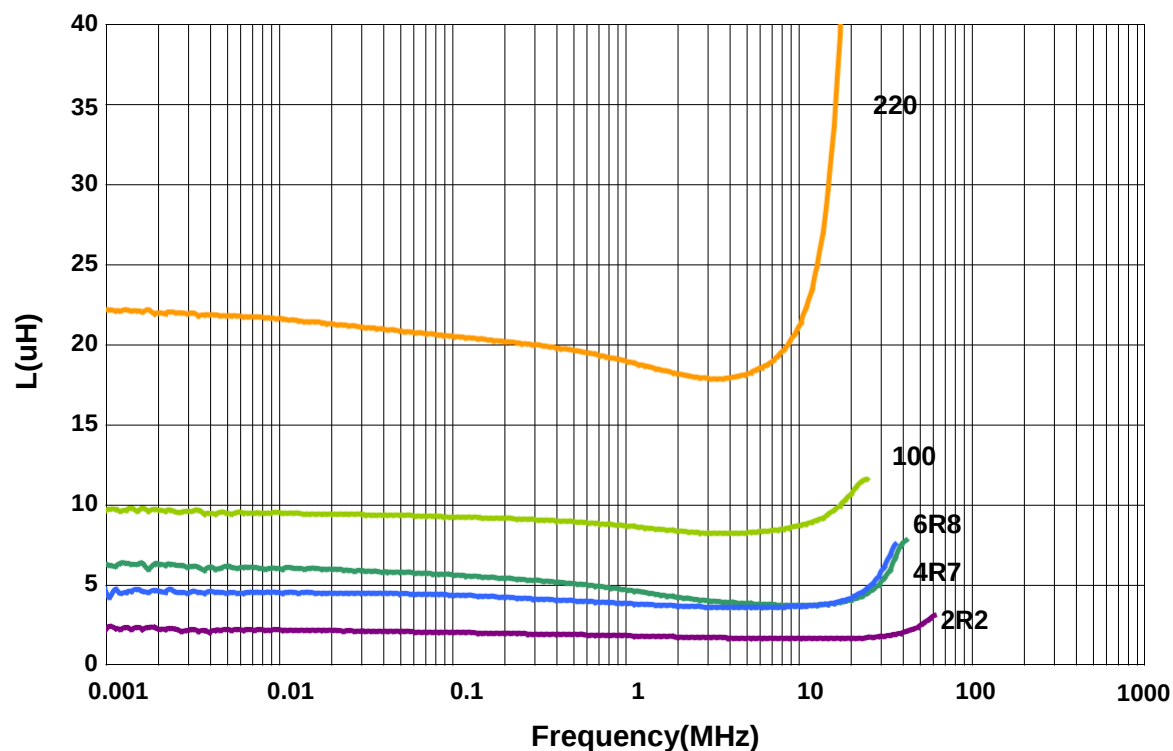
## Power Inductor APSC Series

Automotive  
AEC-Q200

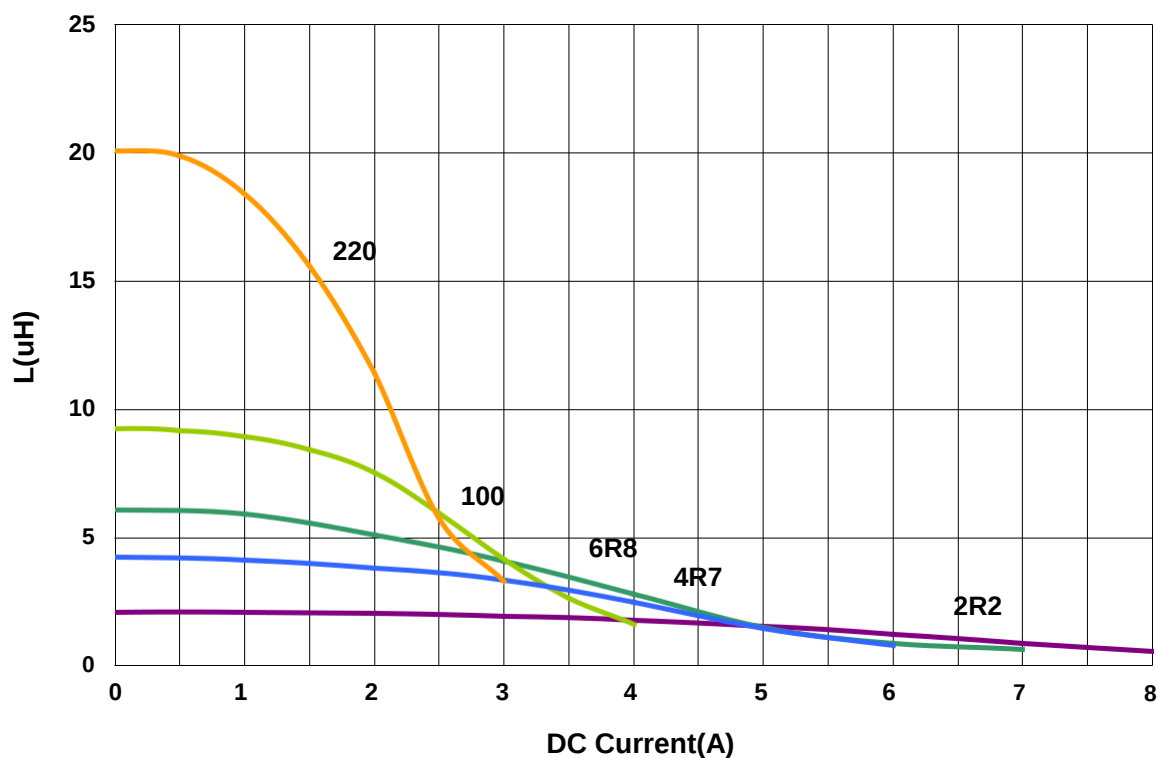
APSC00050540 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

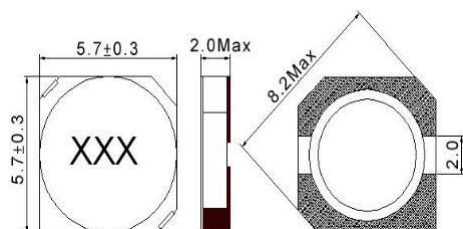


## Power Inductor APSC Series

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

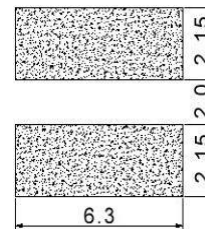
### APSC00060620 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

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

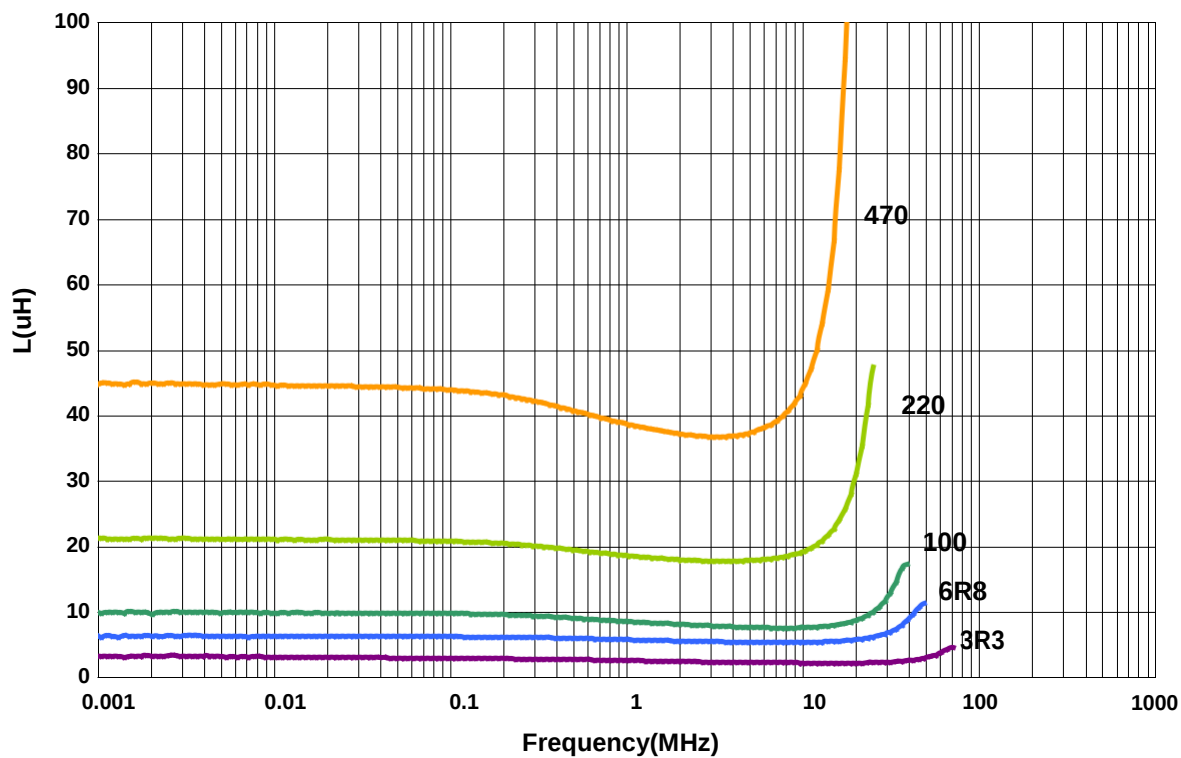
## Power Inductor APSC Series

Automotive  
AEC-Q200

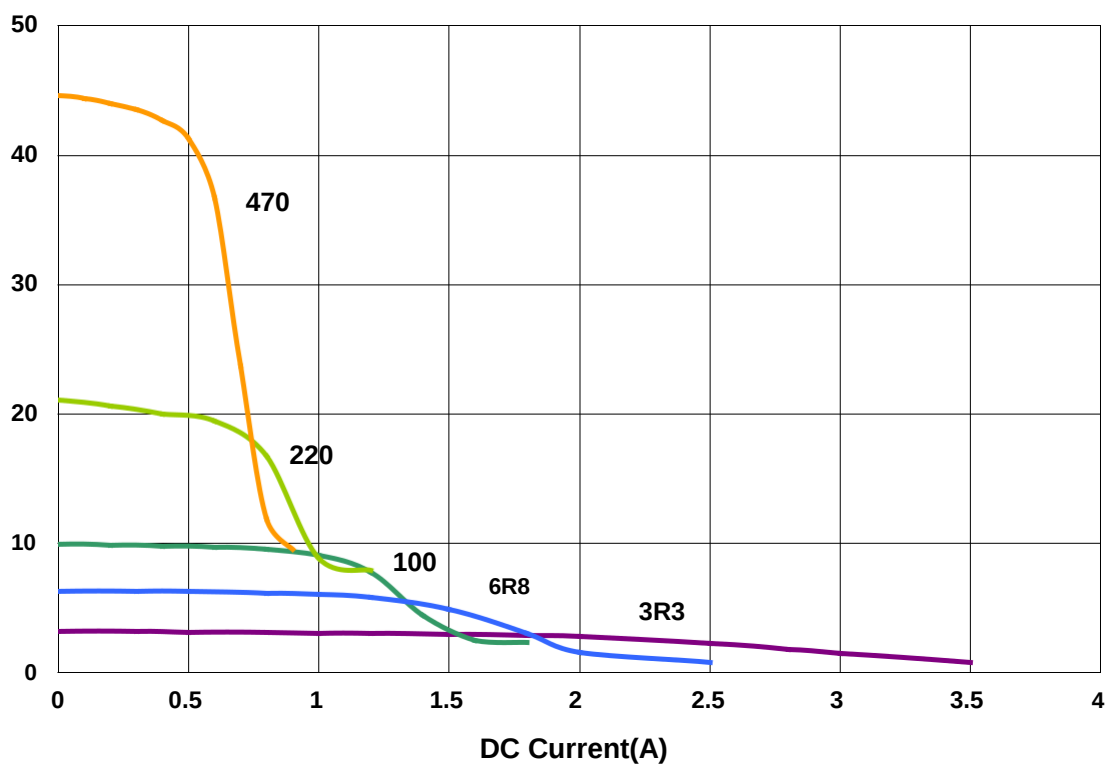
APSC00060620 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

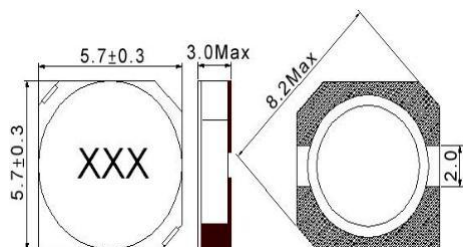


## Power Inductor APSC Series

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

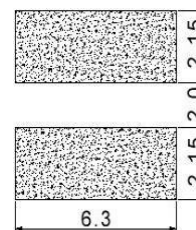
### APSC00060630 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

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

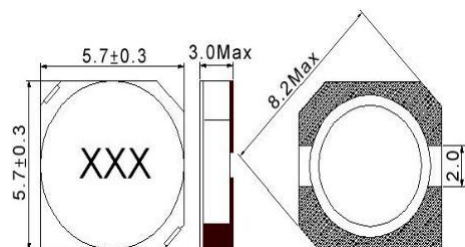
- Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
- Isat for Inductance drop 35% from its value without current
- Measure Equipment:  
L: Agilent E4980 or HP4284A  
RDC: CH502BC  
Rate current: HP4284+42841A or WK3260B+WK3265B

## Power Inductor APSC Series

Automotive  
AEC-Q200

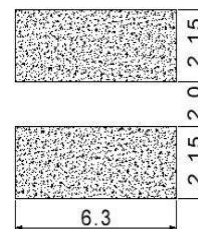
## APSC00060630 Type

## ■ Dimensions



unit:mm

## ■ Recommended Land Pattern



unit:mm

## ■ Electrical Characteristics

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

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

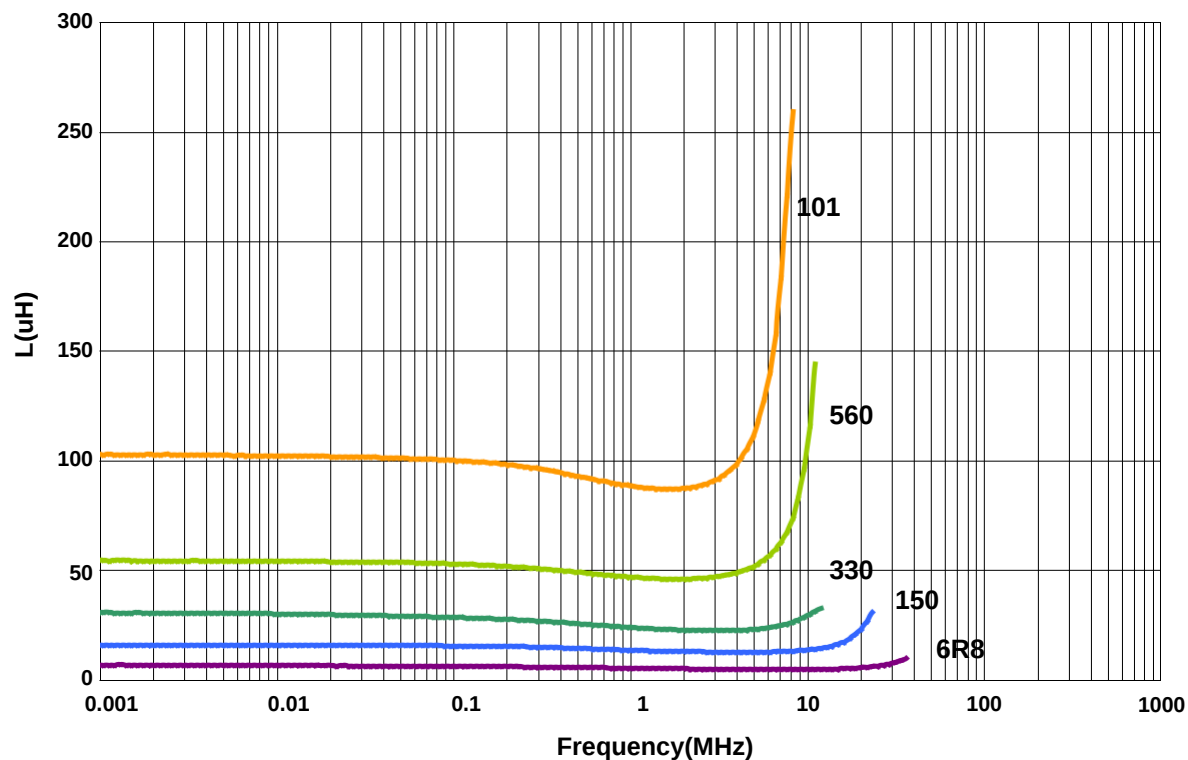
## Power Inductor APSC Series

Automotive  
AEC-Q200

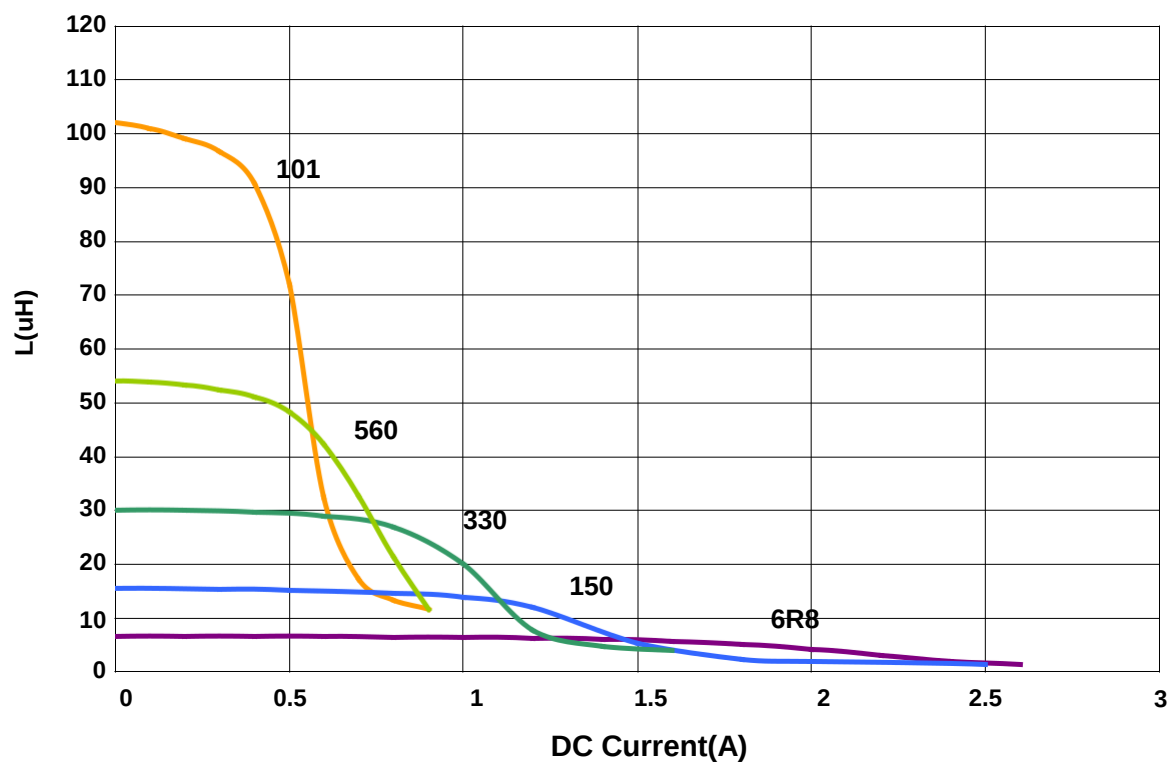
APSC00060630 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

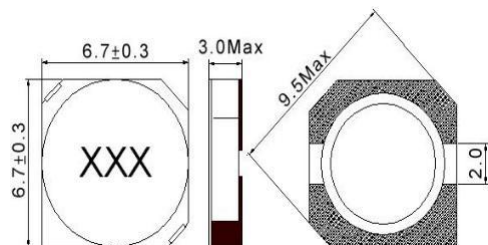


## Power Inductor APSC Series

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

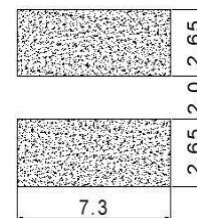
### APSC00070730 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

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

- 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

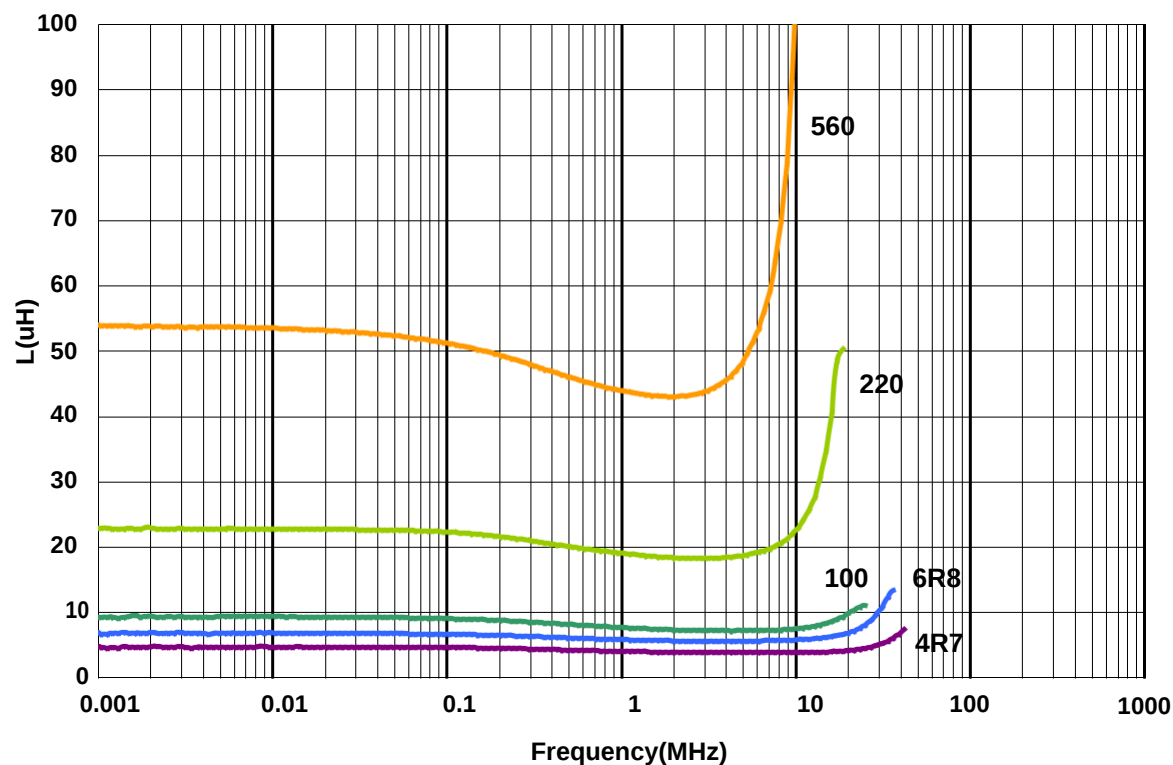
## Power Inductor APSC Series

Automotive  
AEC-Q200

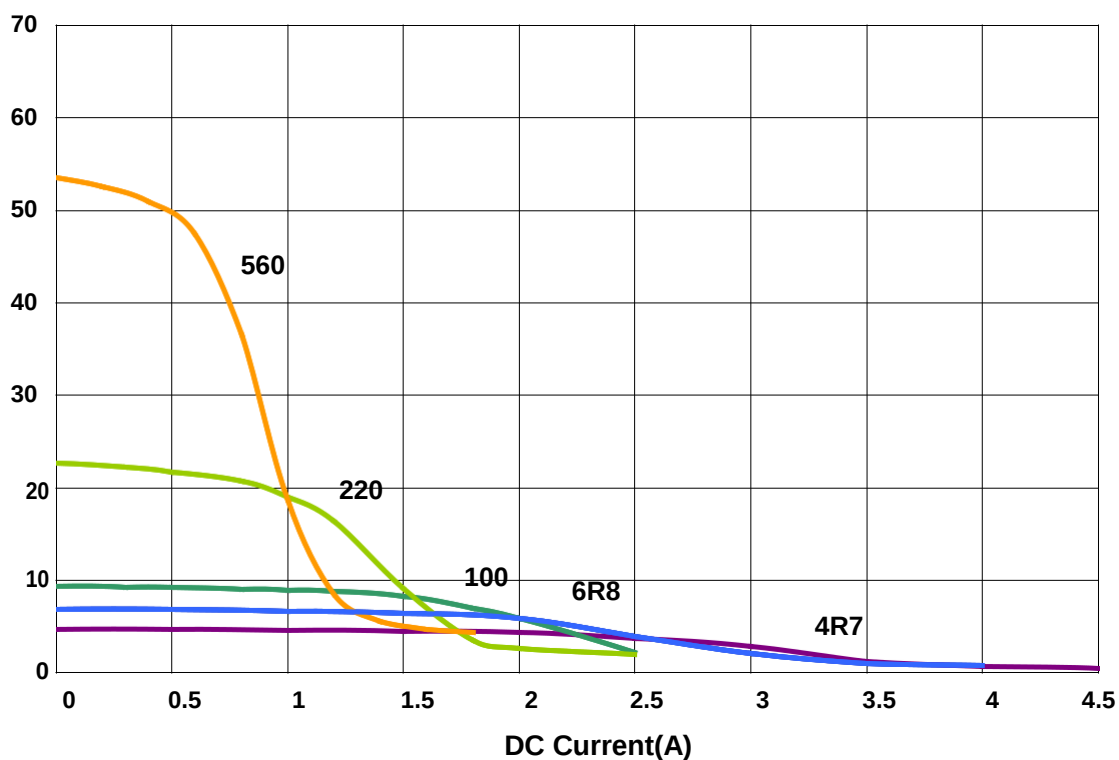
APSC00070730 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

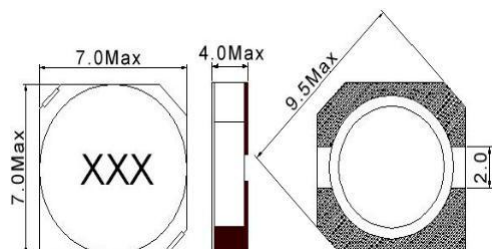


## Power Inductor APSC Series

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

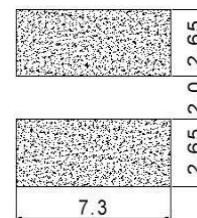
### APSC00070740 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.   | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | 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 | 0.020          | 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          | 0.75(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

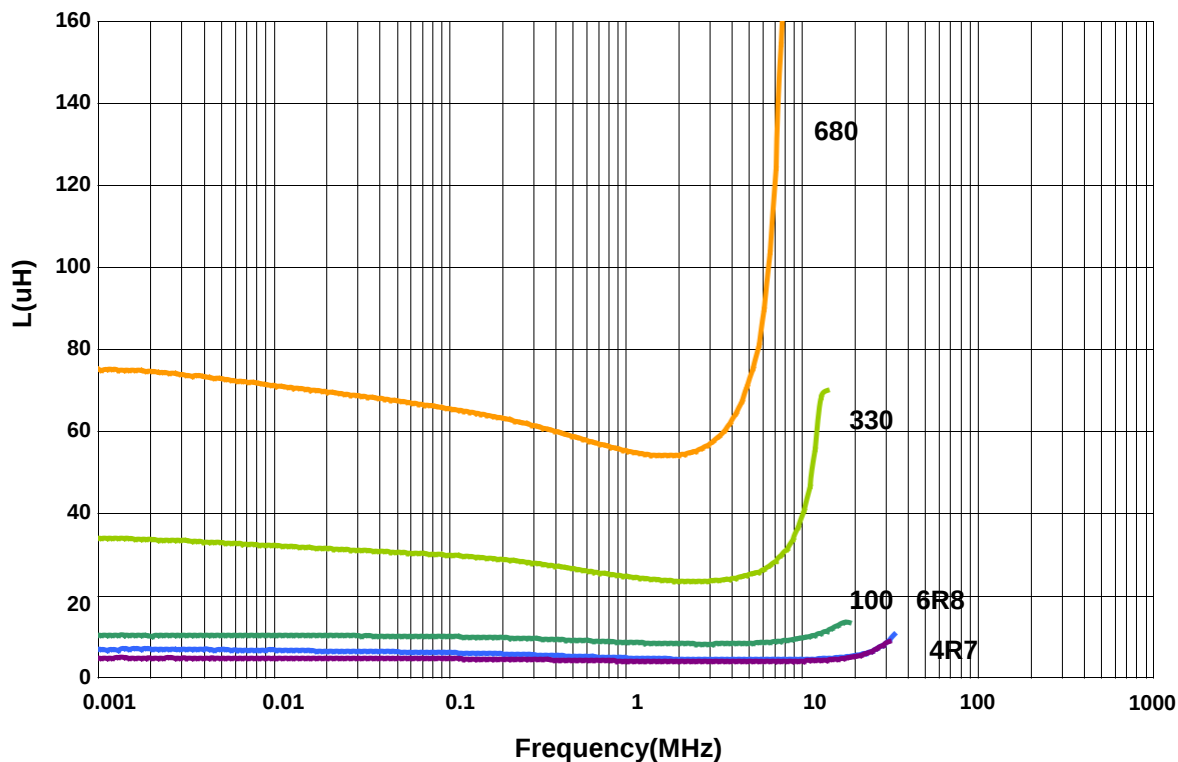
## Power Inductor APSC Series

Automotive  
AEC-Q200

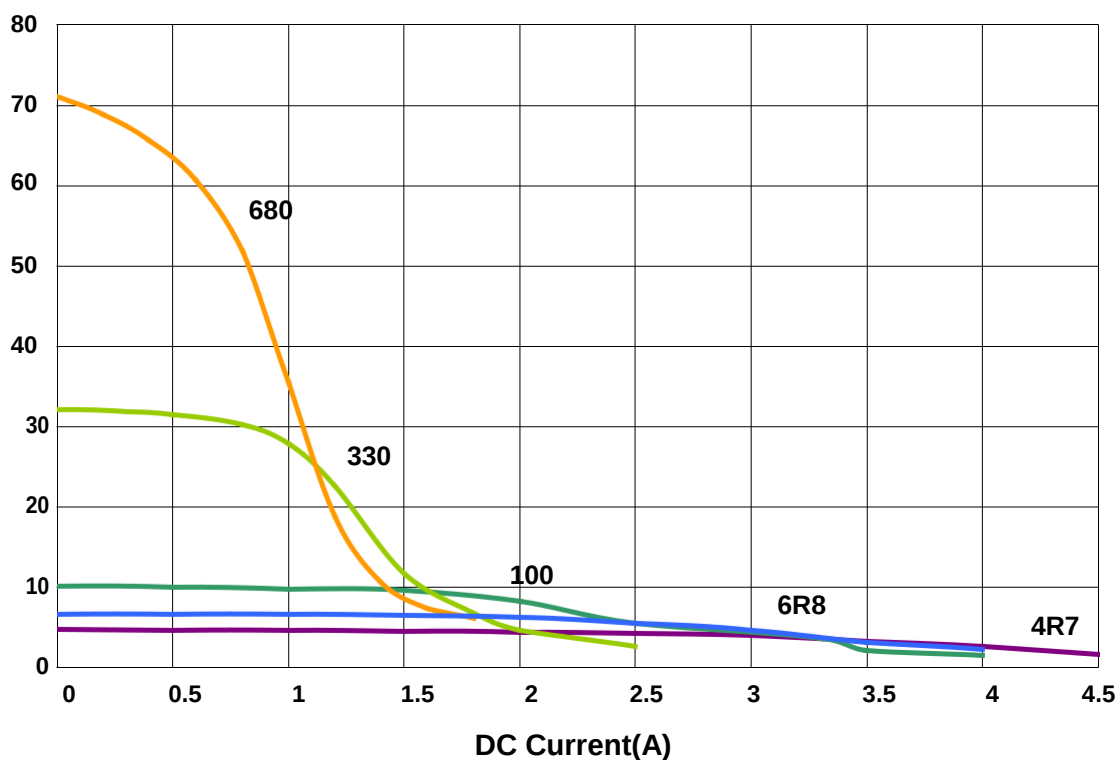
APSC00070740 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

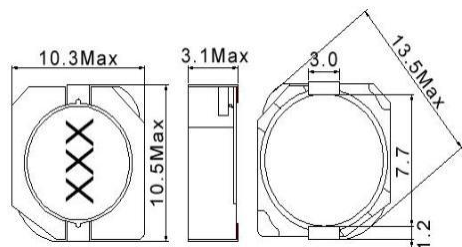


## Power Inductor APSC Series

Automotive  
AEC-Q200

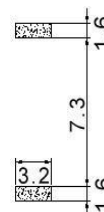
## APSC00101131 Type

## ■ Dimensions



unit:mm

## ■ Recommended Land Pattern



unit:mm

## ■ Electrical Characteristics

| Part No.           | Inductance<br>( $\mu\text{H}$ ) | Test Freq.   | RDC<br>( $\Omega$ )Max. | Isat<br>(A) | Tolerance<br>( $\pm\%$ ) | 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= $\pm 20\%$  / T= $\pm 30\%$

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

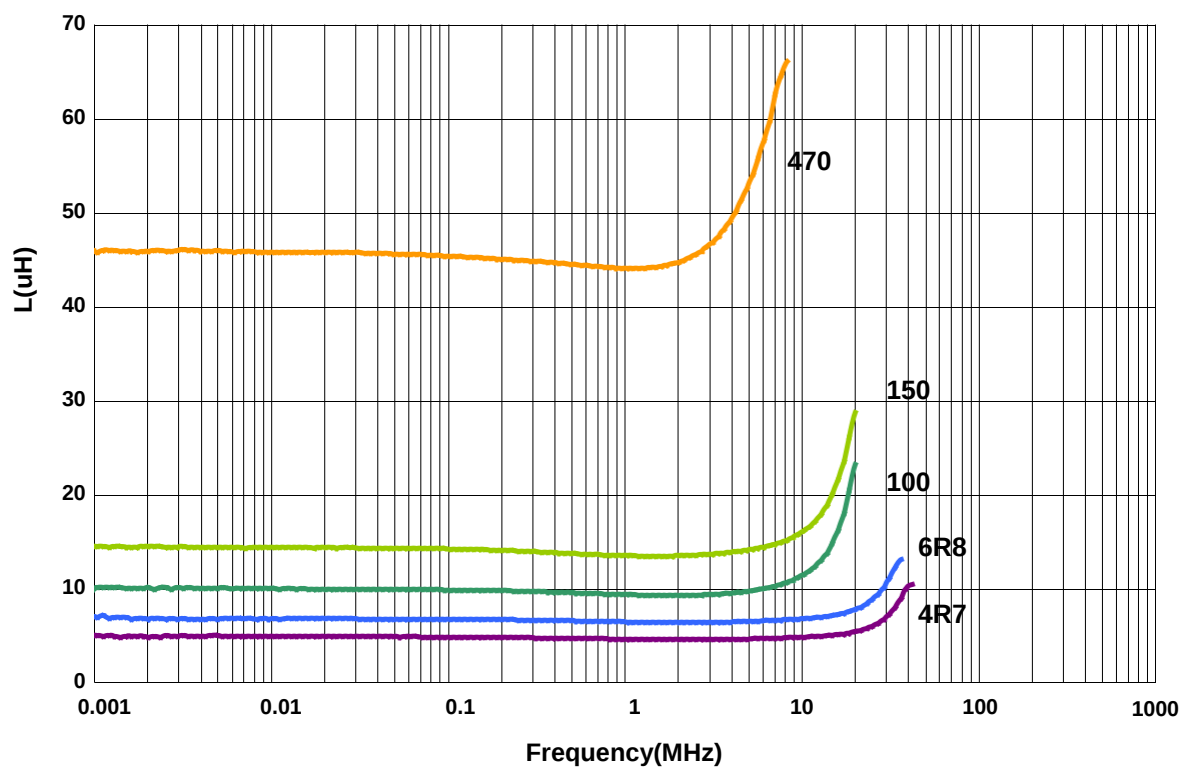
## Power Inductor APSC Series

Automotive  
AEC-Q200

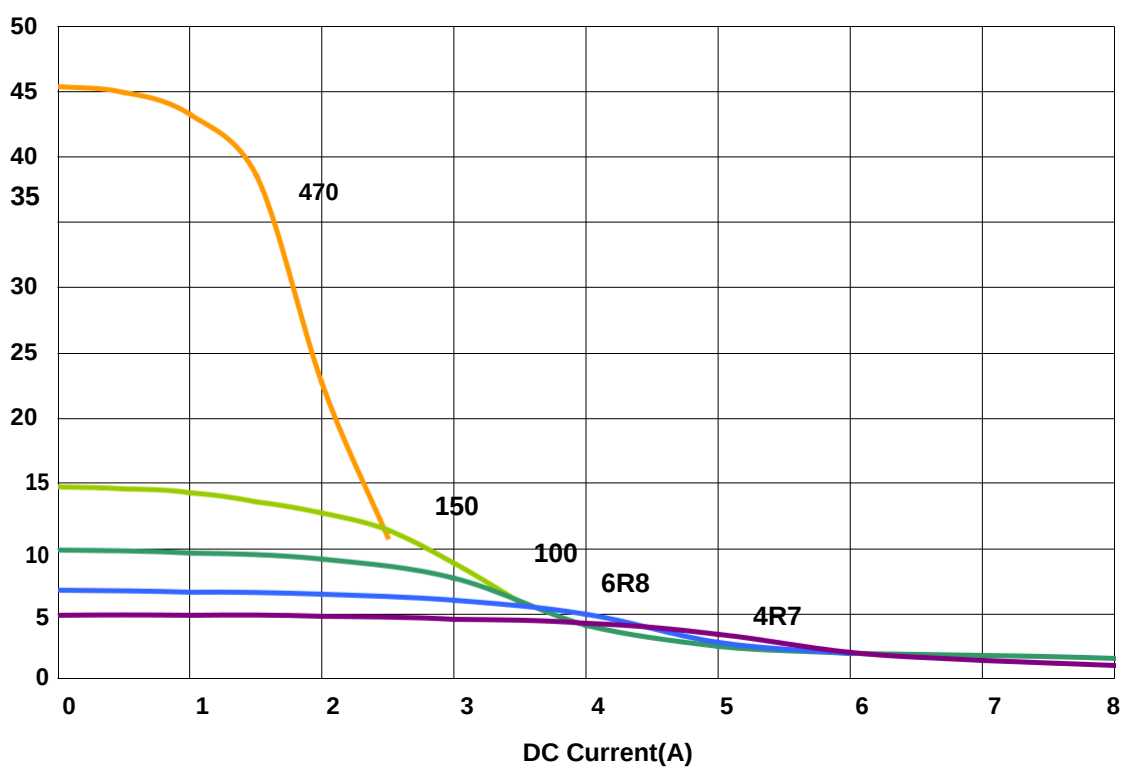
APSC00101131 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

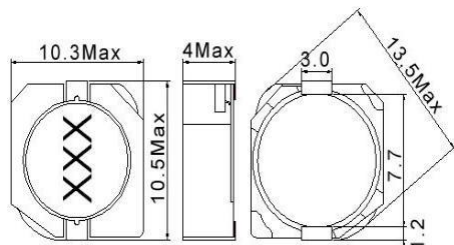


## Power Inductor APSC Series

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

### APSC00101140 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.  | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | Marking |
|--------------------|---------------------|-------------|----------------|---------------------|-------------------|---------|
| APSC001011403R8□00 | 3.8                 | 100 kHz,1 V | 0.015          | 6.8(8.5)            | 30                | 3R8     |
| APSC001011404R7□00 | 4.7                 | 100 kHz,1 V | 0.02           | 5.8(7.3)            | 30                | 4R7     |
| APSC001011405R2□00 | 5.2                 | 100 kHz,1 V | 0.024          | 5.8(7.3)            | 30                | 5R2     |
| APSC001011405R6□00 | 5.6                 | 100 kHz,1 V | 0.027          | 5.0(6.5)            | 30                | 5R6     |
| APSC001011406R8□00 | 6.8                 | 100 kHz,1 V | 0.031          | 5.0(6.5)            | 30                | 6R8     |
| APSC001011407R0□00 | 7                   | 100 kHz,1 V | 0.031          | 4.8(5.9)            | 30                | 7R0     |
| APSC001011408R2□00 | 8.2                 | 100 kHz,1 V | 0.036          | 4.5(5.8)            | 30                | 8R2     |
| APSC00101140100□00 | 10                  | 100 kHz,1 V | 0.04           | 4.0(5.0)            | 20,30             | 100     |
| APSC00101140150□00 | 15                  | 100 kHz,1 V | 0.055          | 3.4(4.3)            | 20,30             | 150     |
| APSC00101140180□00 | 18                  | 100 kHz,1 V | 0.075          | 2.9(3.6)            | 20,30             | 180     |
| APSC00101140220□00 | 22                  | 100 kHz,1 V | 0.08           | 2.6(3.3)            | 20,30             | 220     |
| APSC00101140270□00 | 27                  | 100 kHz,1 V | 0.096          | 2.4(3.0)            | 20,30             | 270     |
| APSC00101140330□00 | 33                  | 100 kHz,1 V | 0.098          | 2.3(2.9)            | 20,30             | 330     |
| APSC00101140390□00 | 39                  | 100 kHz,1 V | 0.12           | 2.1(2.7)            | 20,30             | 390     |
| APSC00101140470□00 | 47                  | 100 kHz,1 V | 0.144          | 1.8(2.5)            | 20,30             | 470     |
| APSC00101140560□00 | 56                  | 100 kHz,1 V | 0.175          | 1.6(2.1)            | 20,30             | 560     |
| APSC00101140680□00 | 68                  | 100 kHz,1 V | 0.204          | 1.4(1.9)            | 20,30             | 680     |
| APSC00101140820□00 | 82                  | 100 kHz,1 V | 0.25           | 1.3(1.7)            | 20,30             | 820     |
| APSC00101140101□00 | 100                 | 100 kHz,1 V | 0.304          | 1.0(1.6)            | 20,30             | 101     |
| APSC00101140151□00 | 150                 | 100 kHz,1 V | 0.506          | 0.96(1.3)           | 20,30             | 151     |
| APSC00101140221□00 | 220                 | 100 kHz,1 V | 0.69           | 0.8(1.0)            | 20,30             | 221     |
| APSC00101140331□00 | 330                 | 100 kHz,1 V | 1.09           | 0.68(0.86)          | 20,30             | 331     |
| APSC00101140471□00 | 470                 | 100 kHz,1 V | 1.6            | 0.6(0.75)           | 20,30             | 471     |
| APSC00101140561□00 | 560                 | 100 kHz,1 V | 1.68           | 0.5(0.68)           | 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

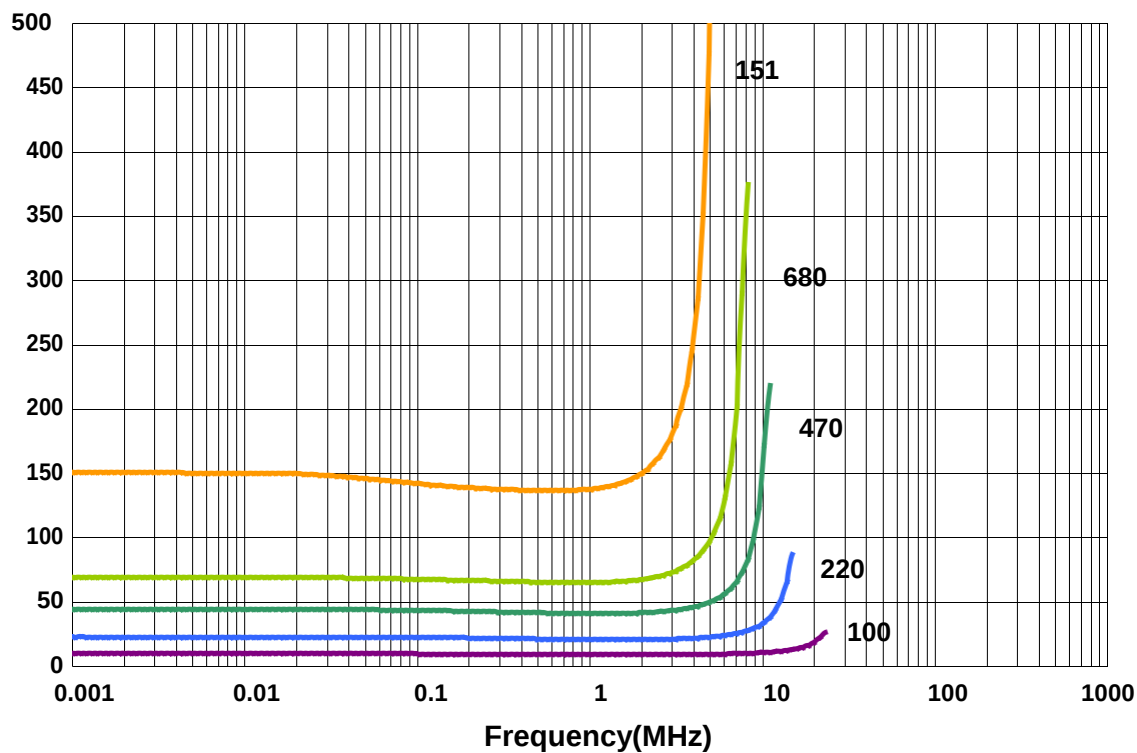
## Power Inductor APSC Series

Automotive  
AEC-Q200

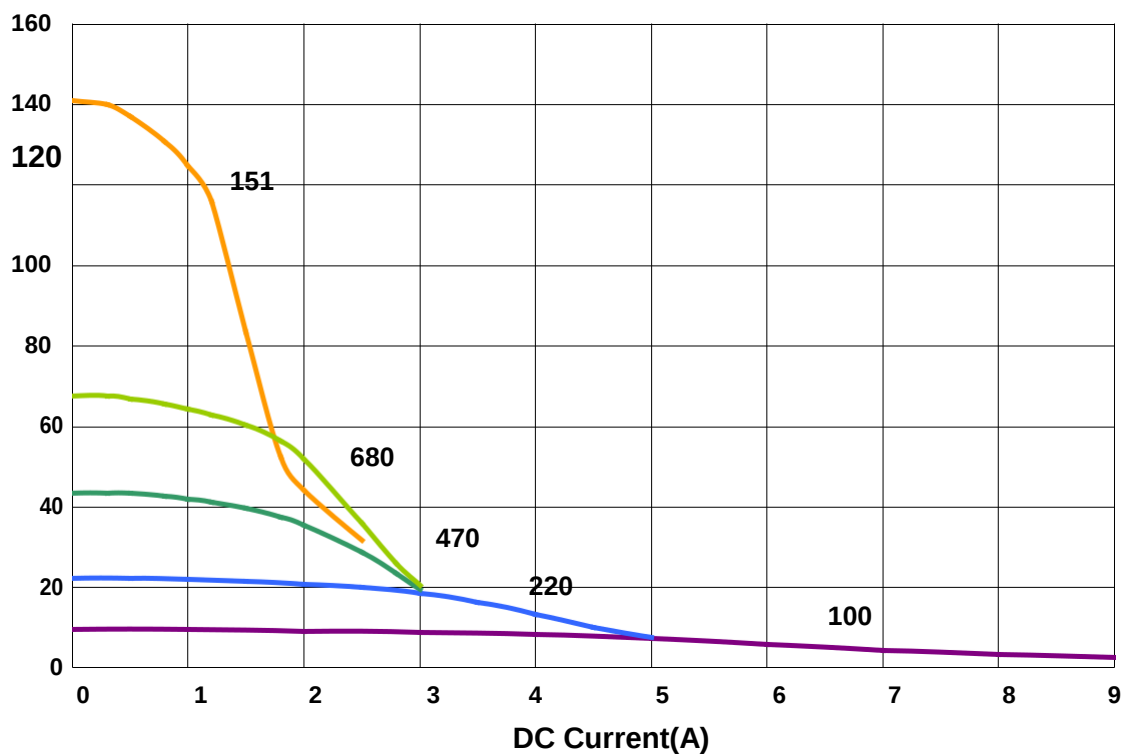
APSC00101140 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

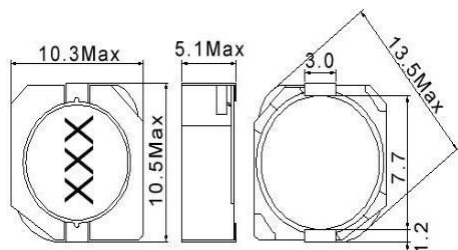


## Power Inductor APSC Series

Automotive  
AEC-Q200

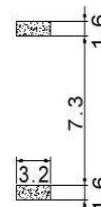
### APSC00101151 Type

#### ■ Dimensions



unit:mm

#### ■ Recommended Land Pattern



unit:mm

#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.  | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | Marking |
|--------------------|---------------------|-------------|----------------|---------------------|-------------------|---------|
| APSC001011514R7□00 | 4.7                 | 100 kHz,1 V | 0.014          | 5.6(7.8)            | 30                | 4R7     |
| APSC001011516R8□00 | 6.8                 | 100 kHz,1 V | 0.024          | 5.1(6.4)            | 30                | 6R8     |
| APSC001011518R2□00 | 8.2                 | 100 kHz,1 V | 0.027          | 4.7(5.9)            | 30                | 8R2     |
| APSC00101151100□00 | 10                  | 100 kHz,1 V | 0.028          | 4.4(5.6)            | 20,30             | 100     |
| APSC00101151120□00 | 12                  | 100 kHz,1 V | 0.036          | 3.4(5.8)            | 20,30             | 120     |
| APSC00101151150□00 | 15                  | 100 kHz,1 V | 0.041          | 3.2(4.5)            | 20,30             | 150     |
| APSC00101151180□00 | 18                  | 100 kHz,1 V | 0.046          | 3.0(3.8)            | 20,30             | 180     |
| APSC00101151220□00 | 22                  | 100 kHz,1 V | 0.061          | 2.8(3.6)            | 20,30             | 220     |
| APSC00101151270□00 | 27                  | 100 kHz,1 V | 0.069          | 2.1(3.2)            | 20,30             | 270     |
| APSC00101151330□00 | 33                  | 100 kHz,1 V | 0.084          | 2.0(2.9)            | 20,30             | 330     |
| APSC00101151390□00 | 39                  | 100 kHz,1 V | 0.106          | 1.9(2.6)            | 20,30             | 390     |
| APSC00101151470□00 | 47                  | 100 kHz,1 V | 0.13           | 1.7(2.3)            | 20,30             | 470     |
| APSC00101151560□00 | 56                  | 100 kHz,1 V | 0.149          | 1.6(2.2)            | 20,30             | 560     |
| APSC00101151680□00 | 68                  | 100 kHz,1 V | 0.201          | 1.5(2.0)            | 20,30             | 680     |
| APSC00101151820□00 | 82                  | 100 kHz,1 V | 0.227          | 1.3(1.8)            | 20,30             | 820     |
| APSC00101151101□00 | 100                 | 100 kHz,1 V | 0.253          | 1.2(1.7)            | 20,30             | 101     |
| APSC00101151121□00 | 120                 | 100 kHz,1 V | 0.303          | 1.1(1.5)            | 20,30             | 121     |
| APSC00101151151□00 | 150                 | 100 kHz,1 V | 0.42           | 1.0(1.3)            | 20,30             | 151     |
| APSC00101151181□00 | 180                 | 100 kHz,1 V | 0.45           | 0.9(1.2)            | 20,30             | 181     |
| APSC00101151221□00 | 220                 | 100 kHz,1 V | 0.54           | 0.8(1.1)            | 20,30             | 221     |
| APSC00101151271□00 | 270                 | 100 kHz,1 V | 0.672          | 0.75(0.99)          | 20,30             | 271     |
| APSC00101151331□00 | 330                 | 100 kHz,1 V | 0.812          | 0.74(0.92)          | 20,30             | 331     |
| APSC00101151391□00 | 390                 | 100 kHz,1 V | 0.953          | 0.62(0.83)          | 20,30             | 391     |
| APSC00101151471□00 | 470                 | 100 kHz,1 V | 1.29           | 0.6(0.77)           | 20,30             | 471     |
| APSC00101151561□00 | 560                 | 100 kHz,1 V | 1.43           | 0.47(0.71)          | 20,30             | 561     |
| APSC00101151681□00 | 680                 | 100 kHz,1 V | 1.6            | 0.46(0.65)          | 20,30             | 681     |
| APSC00101151821□00 | 820                 | 100 kHz,1 V | 1.77           | 0.42(0.57)          | 20,30             | 821     |
| APSC00101151102□00 | 1000                | 100 kHz,1 V | 2.2            | 0.4(0.54)           | 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

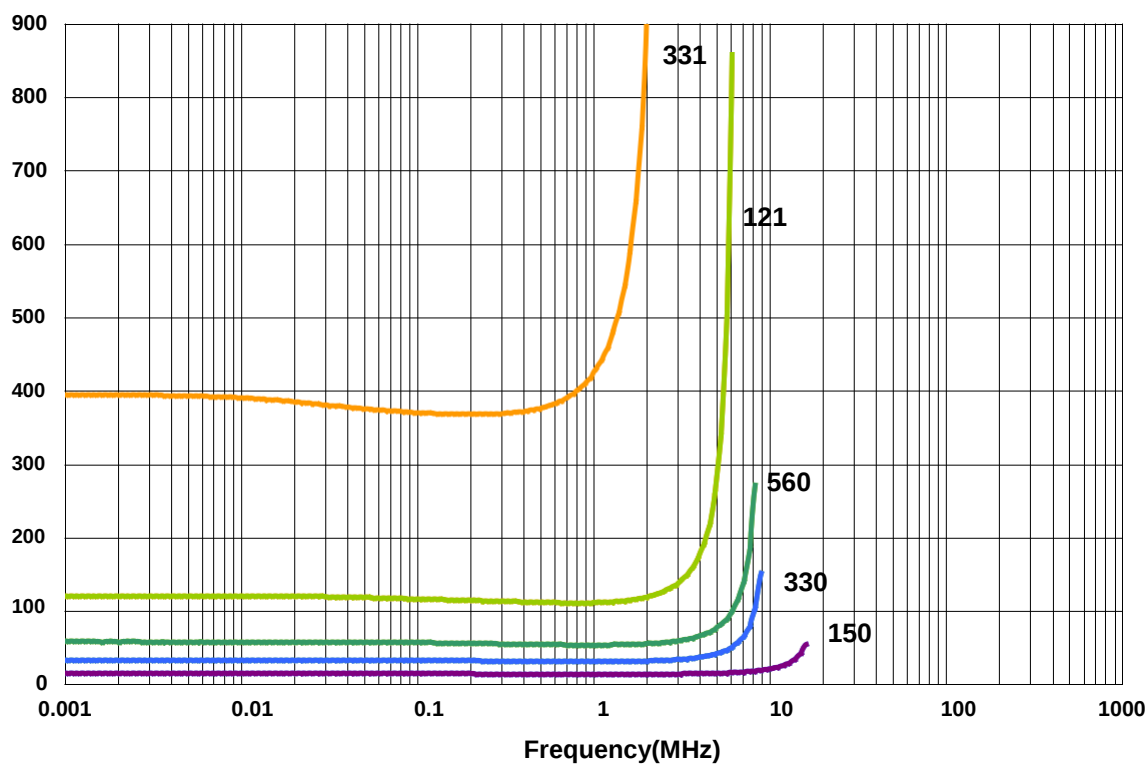
## Power Inductor APSC Series

Automotive  
AEC-Q200

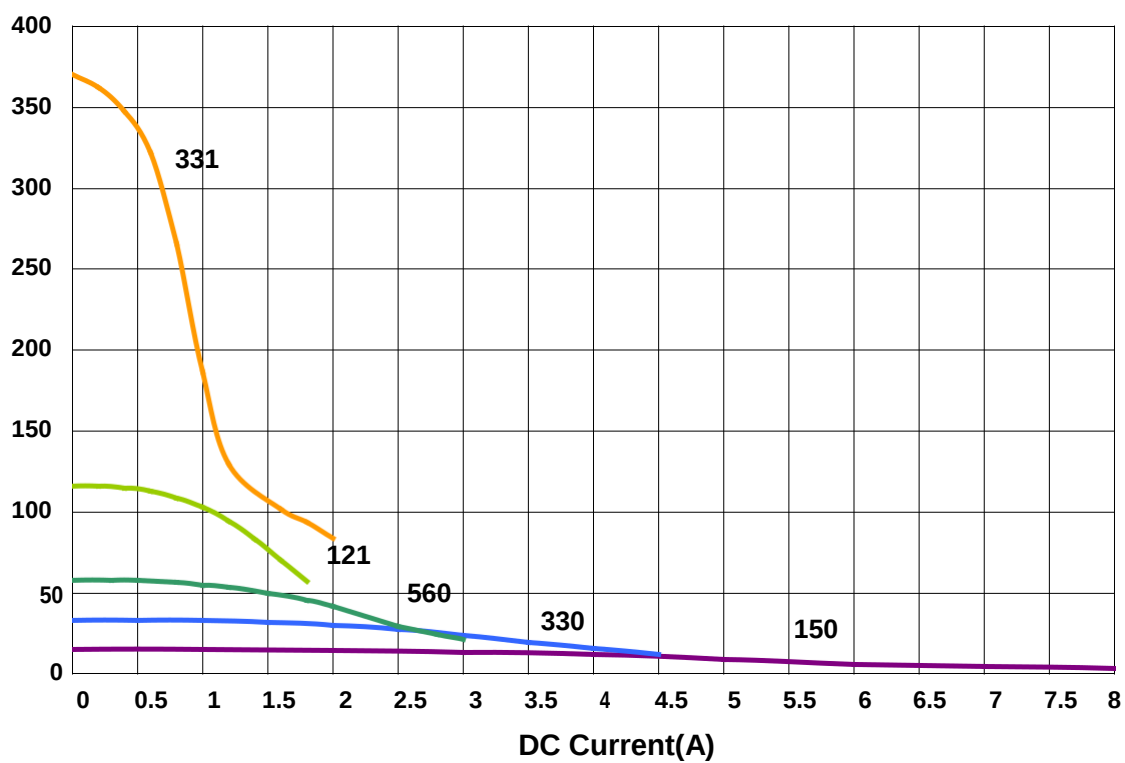
APSC00101151 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

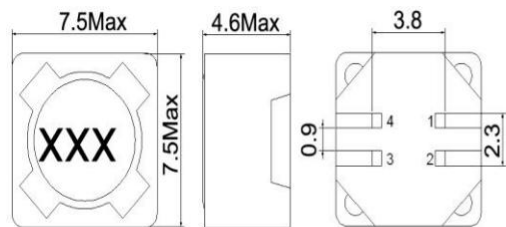


## Power Inductor APSC Series

Automotive  
AEC-Q200

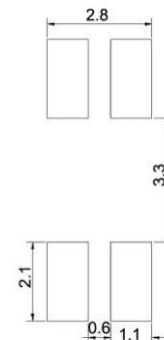
## APSC00080846 Type

## ■ Dimensions



unit:mm

## ■ Recommended Land Pattern



unit:mm

## ■ Electrical Characteristics

| Part No.           | Inductance<br>( $\mu\text{H}$ ) | Test Freq.     | RDC<br>( $\Omega$ ) $\pm 20\%$ | Isat(A)<br>Max(Typ) | Irms<br>(A)Max | Tolerance<br>( $\pm\%$ ) | 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= $\pm 20\%$** 

- Operating temperature range -  $40^{\circ}\text{C} \sim 125^{\circ}\text{C}$ (Including self - temperature rise)
- Isat for Inductance drop 30% from its value without current
- The actual use current is suggested not to be out of Isat\*80%
- Irms for a  $40^{\circ}\text{C}$  temprature rise from  $25^{\circ}\text{C}$  ambient.
- L,RDC,Isat,Irms: L1 or L2
- Measure Equipment:  
L: Agilent E4980 or HP4284A  
RDC: CH502BC  
Isat: HP4284+42841A or WK3260B+WK3265B

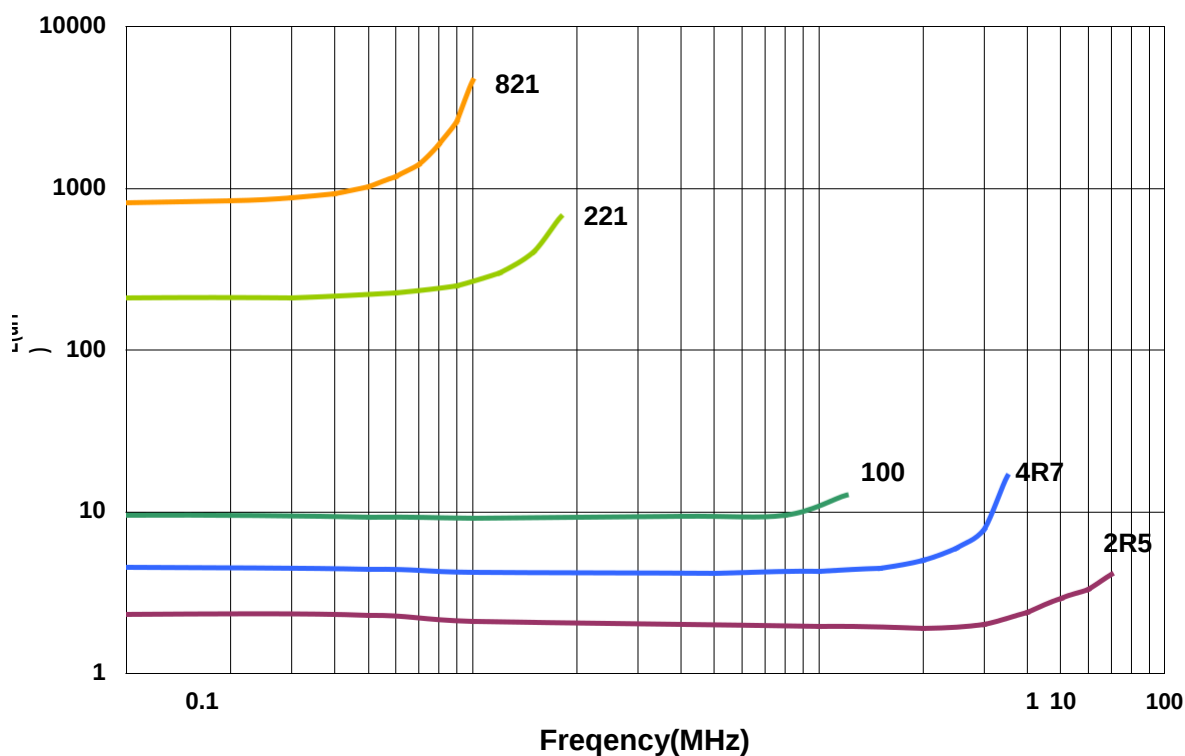
## Power Inductor APSC Series

Automotive  
AEC-Q200

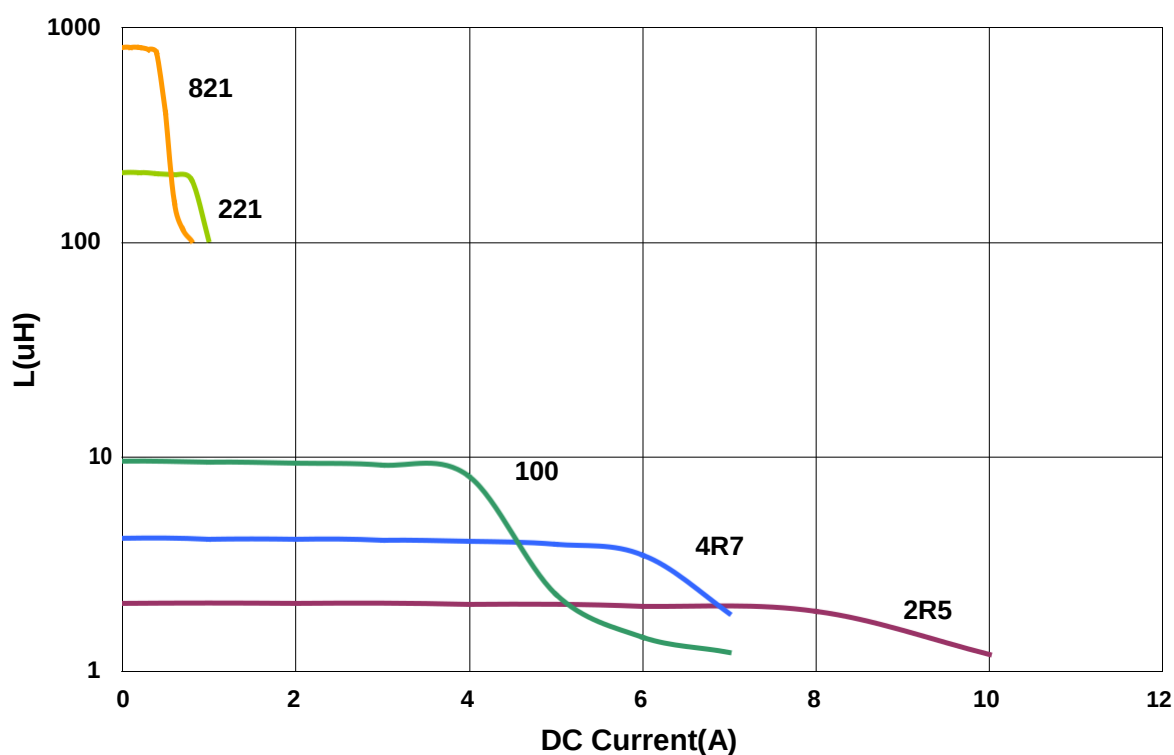
APSC00080846 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

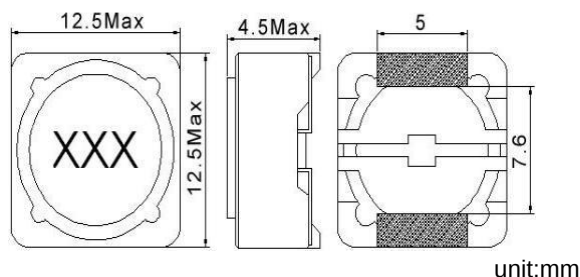


## Power Inductor APSC Series

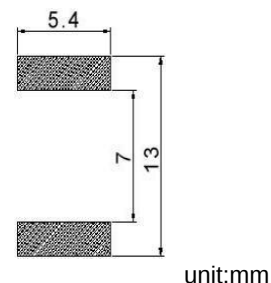
**Automotive**  
**AEC-Q200**

### APSC00131345 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.  | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | Marking |
|--------------------|---------------------|-------------|----------------|---------------------|-------------------|---------|
| APSC001313453R9□00 | 3.9                 | 100 kHz,1 V | 0.016          | 8.0(10.1)           | 30                | 3R9     |
| APSC001313454R7□00 | 4.7                 | 100 kHz,1 V | 0.018          | 7.9(9.9)            | 30                | 4R7     |
| APSC001313456R8□00 | 6.8                 | 100 kHz,1 V | 0.023          | 6.5(8.3)            | 30                | 6R8     |
| APSC00131345100□00 | 10                  | 100 kHz,1 V | 0.035          | 5.2(6.6)            | 20,30             | 100     |
| APSC00131345120□00 | 12                  | 100 kHz,1 V | 0.038          | 4.8(6.2)            | 20,30             | 120     |
| APSC00131345150□00 | 15                  | 100 kHz,1 V | 0.05           | 4.1(5.4)            | 20,30             | 150     |
| APSC00131345180□00 | 18                  | 100 kHz,1 V | 0.057          | 4.0(5.1)            | 20,30             | 180     |
| APSC00131345220□00 | 22                  | 100 kHz,1 V | 0.066          | 3.5(4.4)            | 20,30             | 220     |
| APSC00131345270□00 | 27                  | 100 kHz,1 V | 0.08           | 3.1(3.9)            | 20,30             | 270     |
| APSC00131345330□00 | 33                  | 100 kHz,1 V | 0.097          | 2.7(3.5)            | 20,30             | 330     |
| APSC00131345390□00 | 39                  | 100 kHz,1 V | 0.132          | 2.1(3.2)            | 20,30             | 390     |
| APSC00131345470□00 | 47                  | 100 kHz,1 V | 0.15           | 1.9(2.9)            | 20,30             | 470     |
| APSC00131345560□00 | 56                  | 100 kHz,1 V | 0.19           | 1.8(2.6)            | 20,30             | 560     |
| APSC00131345680□00 | 68                  | 100 kHz,1 V | 0.22           | 1.5(2.5)            | 20,30             | 680     |
| APSC00131345820□00 | 82                  | 100 kHz,1 V | 0.26           | 1.3(2.3)            | 20,30             | 820     |
| APSC00131345101□00 | 100                 | 100 kHz,1 V | 0.308          | 1.2(2.0)            | 20,30             | 101     |
| APSC00131345121□00 | 120                 | 100 kHz,1 V | 0.38           | 1.1(1.8)            | 20,30             | 121     |
| APSC00131345151□00 | 150                 | 100 kHz,1 V | 0.53           | 0.95(1.6)           | 20,30             | 151     |
| APSC00131345181□00 | 180                 | 100 kHz,1 V | 0.62           | 0.85(1.4)           | 20,30             | 181     |
| APSC00131345221□00 | 220                 | 100 kHz,1 V | 0.7            | 0.8(1.3)            | 20,30             | 221     |
| APSC00131345271□00 | 270                 | 100 kHz,1 V | 0.876          | 0.6(1.1)            | 20,30             | 271     |
| APSC00131345331□00 | 330                 | 100 kHz,1 V | 0.99           | 0.5(1.0)            | 20,30             | 331     |

**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

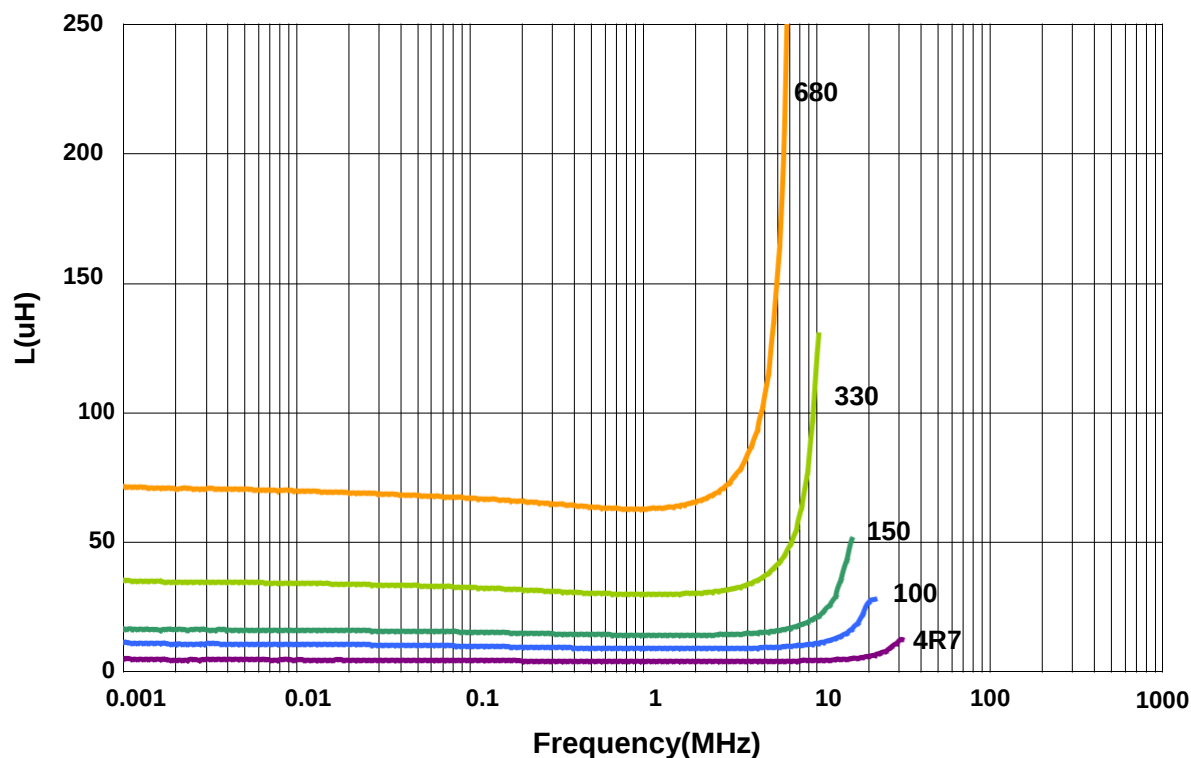
## Power Inductor APSC Series

Automotive  
AEC-Q200

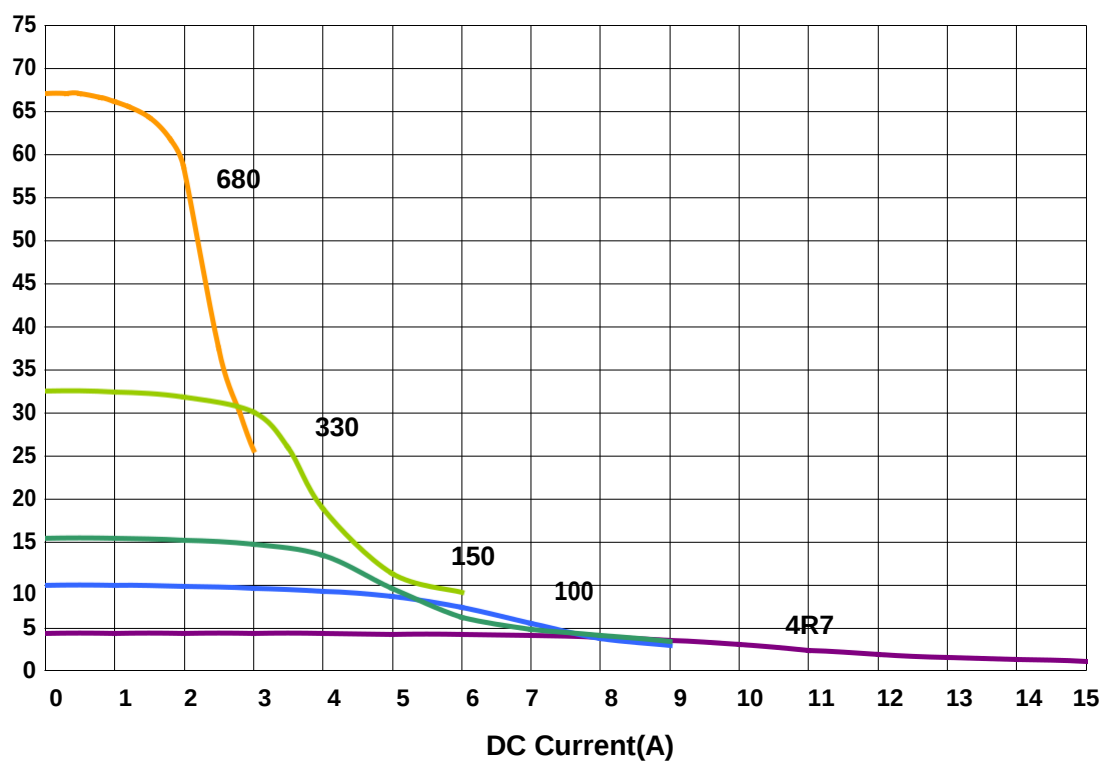
APSC00131345 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

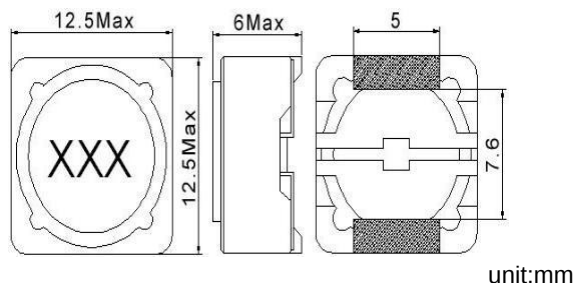


## Power Inductor APSC Series

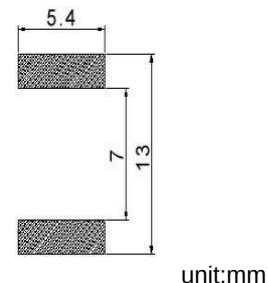
Automotive  
AEC-Q200

## APSC00131360 Type

## ■ Dimensions



## ■ Recommended Land Pattern



## ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq. | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%) | Marking |
|--------------------|---------------------|------------|----------------|---------------------|-------------------|---------|
| APSC001313604R7□00 | 4.7                 | 1 kHz,1 V  | 0.018          | 7.6(9.2)            | 30                | 4R7     |
| APSC001313606R4□00 | 6.4                 | 1 kHz,1 V  | 0.018          | 6.4(8.1)            | 30                | 6R4     |
| APSC001313608R2□00 | 8.2                 | 1 kHz,1 V  | 0.02           | 5.8(7.4)            | 30                | 8R2     |
| APSC00131360100□00 | 10                  | 1 kHz,1 V  | 0.025          | 5.3(6.8)            | 20,30             | 100     |
| APSC00131360120□00 | 12                  | 1 kHz,1 V  | 0.027          | 5.3(6.8)            | 20,30             | 120     |
| APSC00131360150□00 | 15                  | 1 kHz,1 V  | 0.03           | 4.0(5.2)            | 20,30             | 150     |
| APSC00131360180□00 | 18                  | 1 kHz,1 V  | 0.034          | 3.8(4.9)            | 20,30             | 180     |
| APSC00131360220□00 | 22                  | 1 kHz,1 V  | 0.036          | 3.6(4.8)            | 20,30             | 220     |
| APSC00131360270□00 | 27                  | 1 kHz,1 V  | 0.051          | 3.2(4.1)            | 20,30             | 270     |
| APSC00131360330□00 | 33                  | 1 kHz,1 V  | 0.057          | 2.9(3.7)            | 20,30             | 330     |
| APSC00131360390□00 | 39                  | 1 kHz,1 V  | 0.068          | 2.7(3.5)            | 20,30             | 390     |
| APSC00131360470□00 | 47                  | 1 kHz,1 V  | 0.084          | 2.4(3.1)            | 20,30             | 470     |
| APSC00131360560□00 | 56                  | 1 kHz,1 V  | 0.1            | 2.1(2.7)            | 20,30             | 560     |
| APSC00131360680□00 | 68                  | 1 kHz,1 V  | 0.12           | 2.0(2.6)            | 20,30             | 680     |
| APSC00131360820□00 | 82                  | 1 kHz,1 V  | 0.14           | 1.8(2.3)            | 20,30             | 820     |
| APSC00131360101□00 | 100                 | 1 kHz,1 V  | 0.16           | 1.6(2.1)            | 20,30             | 101     |
| APSC00131360121□00 | 120                 | 1 kHz,1 V  | 0.18           | 1.5(1.9)            | 20,30             | 121     |
| APSC00131360151□00 | 150                 | 1 kHz,1 V  | 0.23           | 1.3(1.7)            | 20,30             | 151     |
| APSC00131360181□00 | 180                 | 1 kHz,1 V  | 0.29           | 1.2(1.6)            | 20,30             | 181     |
| APSC00131360221□00 | 220                 | 1 kHz,1 V  | 0.32           | 1.0(1.4)            | 20,30             | 221     |
| APSC00131360271□00 | 270                 | 1 kHz,1 V  | 0.38           | 0.9(1.2)            | 20,30             | 271     |
| APSC00131360331□00 | 330                 | 1 kHz,1 V  | 0.48           | 0.75(1.1)           | 20,30             | 331     |
| APSC00131360391□00 | 390                 | 1 kHz,1 V  | 0.6            | 0.7(1.0)            | 20,30             | 391     |
| APSC00131360471□00 | 470                 | 1 kHz,1 V  | 0.7            | 0.65(0.99)          | 20,30             | 471     |
| APSC00131360561□00 | 560                 | 1 kHz,1 V  | 0.86           | 0.6(0.91)           | 20,30             | 561     |
| APSC00131360681□00 | 680                 | 1 kHz,1 V  | 1.1            | 0.55(0.82)          | 20,30             | 681     |
| APSC00131360821□00 | 820                 | 1 kHz,1 V  | 1.34           | 0.5(0.71)           | 20,30             | 821     |
| APSC00131360102□00 | 1000                | 1 kHz,1 V  | 1.53           | 0.45(0.64)          | 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

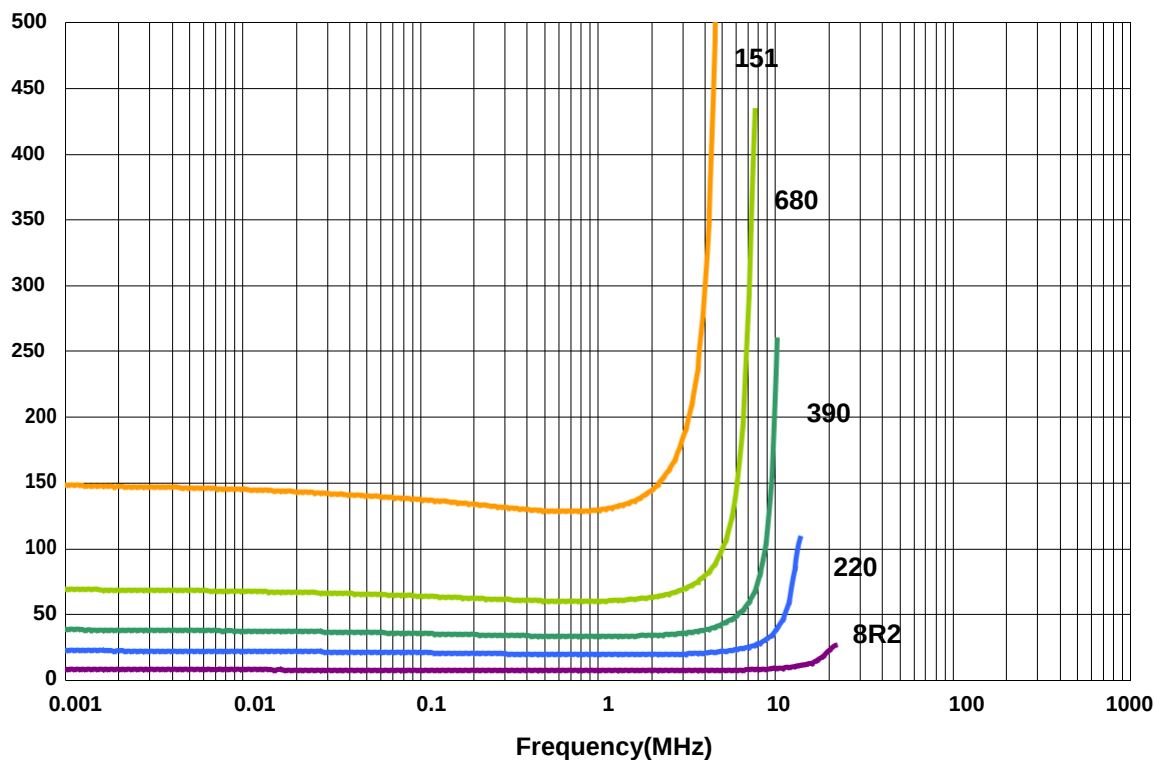
## Power Inductor APSC Series

Automotive  
AEC-Q200

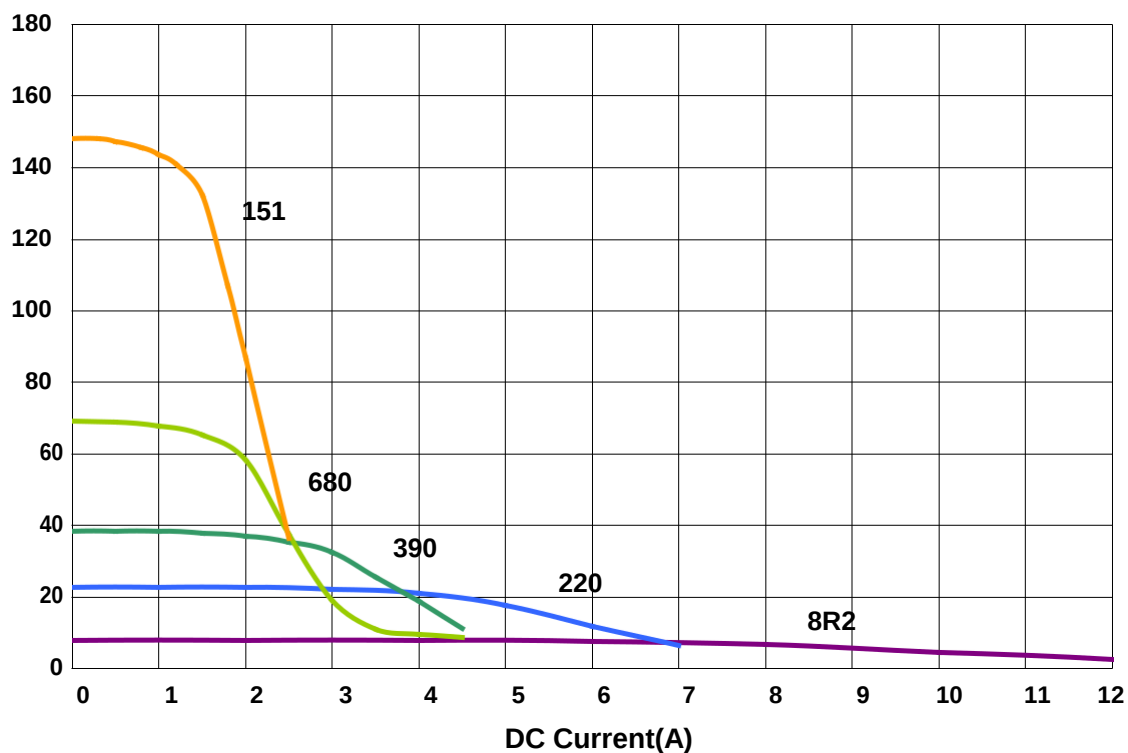
APSC00131360 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

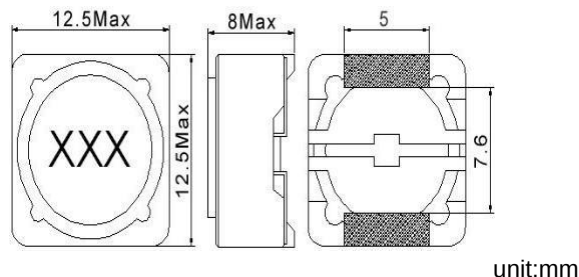


## Power Inductor APSC Series

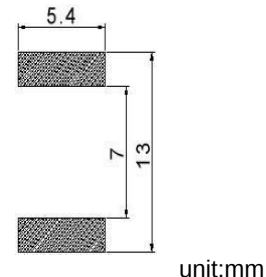
**Automotive**  
**AEC-Q200**

### APSC00131380 Type

#### ■ Dimensions



#### ■ Recommended Land Pattern



#### ■ Electrical Characteristics

| Part No.           | Inductance<br>(uH ) | Test Freq.  | RDC<br>(Ω)Max. | Isat(A)<br>Max(Typ) | Tolerance<br>(±%)                 | Marking |
|--------------------|---------------------|-------------|----------------|---------------------|-----------------------------------|---------|
| APSC001313803R5□00 | 3.5                 | 100 kHz,1 V | 0.0123         | 13.8(17.4)          | 30, <sup>+40</sup> <sub>-20</sub> | 3R5     |
| APSC001313804R7□00 | 4.7                 | 100 kHz,1 V | 0.0158         | 12.3(15.4)          | 30                                | 4R7     |
| APSC001313806R1□00 | 6.1                 | 100 kHz,1 V | 0.0176         | 10.9(13.8)          | 30, <sup>+40</sup> <sub>-20</sub> | 6R1     |
| APSC001313806R8□00 | 6.8                 | 100 kHz,1 V | 0.018          | 10.8(13.7)          | 30                                | 6R8     |
| APSC001313807R6□00 | 7.6                 | 100 kHz,1 V | 0.02           | 10(12.6)            | 30                                | 7R6     |
| APSC00131380100□00 | 10                  | 1 kHz,1 V   | 0.022          | 8.9(11.2)           | 20,30                             | 100     |
| APSC00131380120□00 | 12                  | 1 kHz,1 V   | 0.03           | 7.4(9.4)            | 20,30                             | 120     |
| APSC00131380150□00 | 15                  | 1 kHz,1 V   | 0.034          | 7.1(9.0)            | 20,30                             | 150     |
| APSC00131380180□00 | 18                  | 1 kHz,1 V   | 0.0392         | 6.5(8.2)            | 20,30                             | 180     |
| APSC00131380220□00 | 22                  | 1 kHz,1 V   | 0.048          | 5.8(7.5)            | 20,30                             | 220     |
| APSC00131380270□00 | 27                  | 1 kHz,1 V   | 0.052          | 5.3(6.7)            | 20,30                             | 270     |
| APSC00131380330□00 | 33                  | 1 kHz,1 V   | 0.0648         | 4.8(6.1)            | 20,30                             | 330     |
| APSC00131380390□00 | 39                  | 1 kHz,1 V   | 0.065          | 3.9(5.6)            | 20,30                             | 390     |
| APSC00131380470□00 | 47                  | 1 kHz,1 V   | 0.1            | 3.6(5.2)            | 20,30                             | 470     |
| APSC00131380560□00 | 56                  | 1 kHz,1 V   | 0.11           | 3.4(4.8)            | 20,30                             | 560     |
| APSC00131380680□00 | 68                  | 1 kHz,1 V   | 0.12           | 2.8(4.1)            | 20,30                             | 680     |
| APSC00131380820□00 | 82                  | 1 kHz,1 V   | 0.16           | 2.7(4.0)            | 20,30                             | 820     |
| APSC00131380101□00 | 100                 | 1 kHz,1 V   | 0.17           | 2.5(3.5)            | 20,30                             | 101     |
| APSC00131380121□00 | 120                 | 1 kHz,1 V   | 0.19           | 2.2(3.2)            | 20,30                             | 121     |
| APSC00131380151□00 | 150                 | 1 kHz,1 V   | 0.25           | 2.0(2.9)            | 20,30                             | 151     |
| APSC00131380181□00 | 180                 | 1 kHz,1 V   | 0.31           | 1.8(2.6)            | 20,30                             | 181     |
| APSC00131380221□00 | 220                 | 1 kHz,1 V   | 0.35           | 1.7(2.4)            | 20,30                             | 221     |
| APSC00131380271□00 | 270                 | 1 kHz,1 V   | 0.43           | 1.5(2.2)            | 20,30                             | 271     |
| APSC00131380331□00 | 330                 | 1 kHz,1 V   | 0.51           | 1.2(2.0)            | 20,30                             | 331     |
| APSC00131380391□00 | 390                 | 1 kHz,1 V   | 0.6            | 1.1(1.6)            | 20,30                             | 391     |
| APSC00131380471□00 | 470                 | 1 kHz,1 V   | 0.71           | 0.99(1.6)           | 20,30                             | 471     |
| APSC00131380561□00 | 560                 | 1 kHz,1 V   | 0.88           | 0.95(1.4)           | 20,30                             | 561     |
| APSC00131380681□00 | 680                 | 1 kHz,1 V   | 1.04           | 0.84(1.2)           | 20,30                             | 681     |
| APSC00131380821□00 | 820                 | 1 kHz,1 V   | 1.36           | 0.77(1.1)           | 20,30                             | 821     |
| APSC00131380102□00 | 1000                | 1 kHz,1 V   | 1.66           | 0.73(1.0)           | 20,30                             | 102     |

**Note:** When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30% / N= <sup>+40</sup><sub>-20</sub>%

- 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

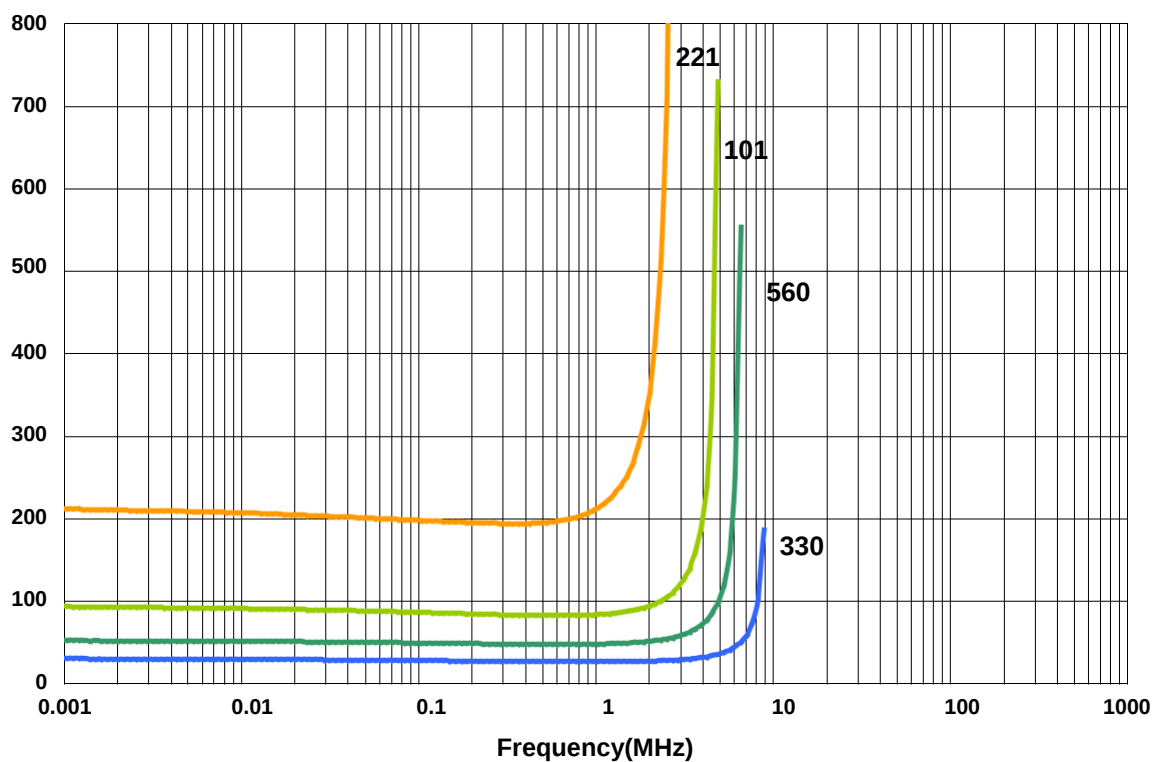
## Power Inductor APSC Series

Automotive  
AEC-Q200

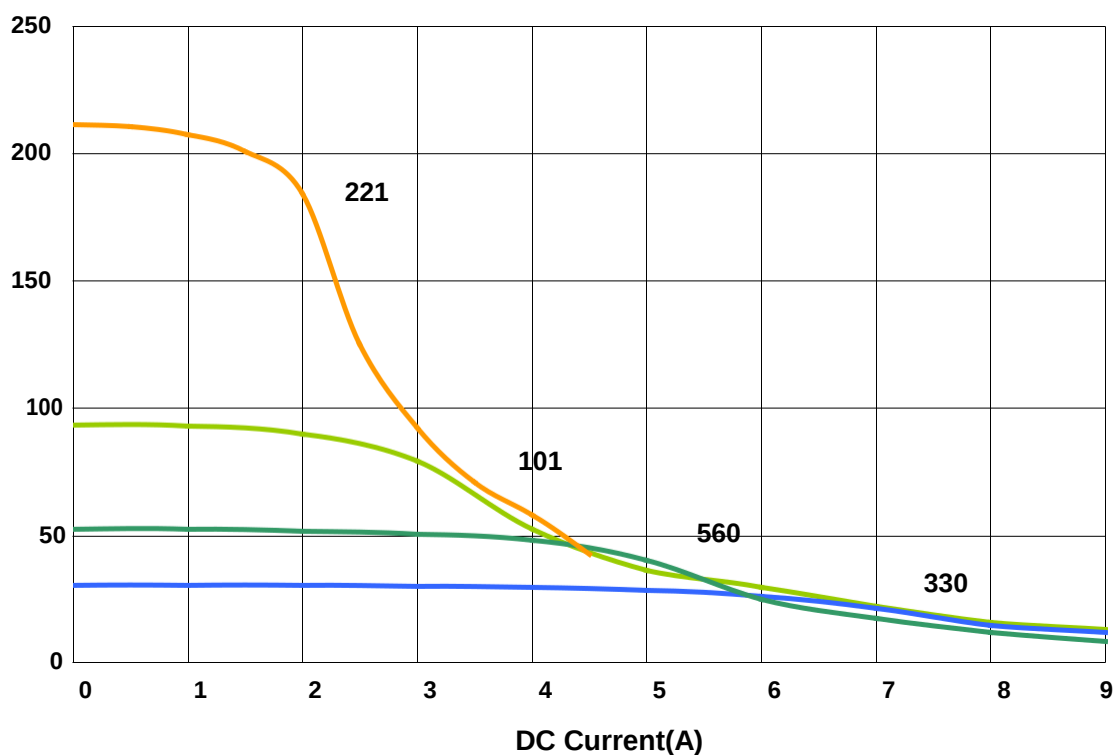
APSC00131380 Type

## ■ Characteristics Graph

Inductance vs. Frequency Characteristics



Inductance vs. DC Current

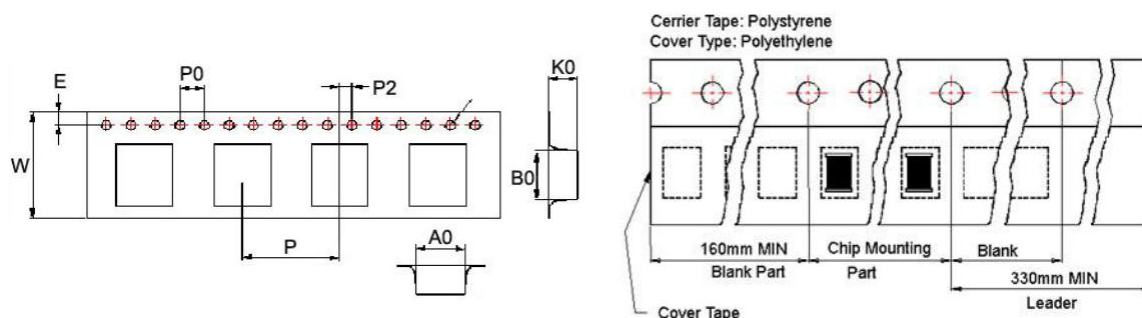


## Power Inductor APSC Series

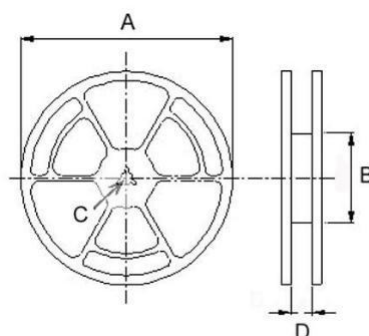
Automotive  
AEC-Q200

## ■ 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                    |

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| <a href="#">APSC000303161R5T00</a> | <a href="#">APSC000303161R8T00</a> | <a href="#">APSC000303162R7T00</a> | <a href="#">APSC000303163R3T00</a> |
| <a href="#">APSC000303163R9T00</a> | <a href="#">APSC000303164R1T00</a> | <a href="#">APSC000303164R7T00</a> | <a href="#">APSC000303165R6T00</a> |
| <a href="#">APSC000303166R8T00</a> | <a href="#">APSC000303168R2T00</a> | <a href="#">APSC00030316R47T00</a> | <a href="#">APSC00040418100MS0</a> |
| <a href="#">APSC00040418100TS0</a> | <a href="#">APSC00040418150MS0</a> | <a href="#">APSC00040418150TS0</a> | <a href="#">APSC000404181R0TS0</a> |
| <a href="#">APSC000404181R5TS0</a> | <a href="#">APSC00040418220MS0</a> | <a href="#">APSC00040418220TS0</a> | <a href="#">APSC00040418270TS0</a> |
| <a href="#">APSC000404182R2TS0</a> | <a href="#">APSC00040418330TS0</a> | <a href="#">APSC000404183R3TS0</a> | <a href="#">APSC000404183R6TS0</a> |
| <a href="#">APSC000404184R7TS0</a> | <a href="#">APSC00040418680TS0</a> | <a href="#">APSC000404186R8TS0</a> | <a href="#">APSC00040430100T00</a> |
| <a href="#">APSC00040430150T00</a> | <a href="#">APSC000404301R0T00</a> | <a href="#">APSC00040430220T00</a> | <a href="#">APSC00040430330T00</a> |
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| <a href="#">APSC00050530560TS0</a> | <a href="#">APSC000505305R6TS0</a> | <a href="#">APSC00050530680TS0</a> | <a href="#">APSC00050530681MS0</a> |