

Cautions and Warnings

Please be noted that this spec is only for reference if you have projects designed with the product number listed in. If you are looking for new project design-in, please find AWVF Series specification/datasheet on Chilisin website. Or you may find our sales contact for more information on old part number at your convenience. Appreciated your attention and understanding.

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

Power Inductor LVF Series

**Automotive
AEC-Q200**

RoHS Compliant
Halogen Free
REACH Compliant



Part Numbering

LVF	404018	-	1R0	M	-	AU
Series Name	Dimensions Code (mm)		Inductance (uH)	Tolerance		Internal Code
	201B12 2.0x1.6x1.2		R47 0.47	M ±20%		
	252A10 2.5x2.0x1.02		1R0 1.0	T ±30%		
	252A12 2.5x2.0x1.2		101 100			
	303010 3.0x3.0x1.02					
	303012 3.0x3.0x1.2					
	303015 3.0x3.0x1.5					
	404012 4.0x4.0x1.02					
	404015 4.0x4.0x1.5					
	404018 4.0x4.0x1.9					
	404026 4.0x4.0x2.6					
	505020 5.0x5.0x2.0					
	606020 6.0x6.0x2.0					
	606028 6.0x6.0x2.8					
	808040 8.0x8.0x4.0					

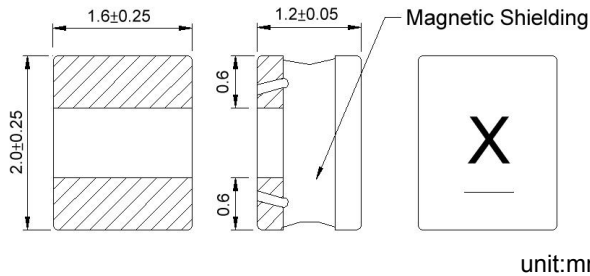
This specification applies to Power Inductors for Automotive Electronics based on AEC-Q200 except for Power train and Safety.

Power Inductor LVF Series

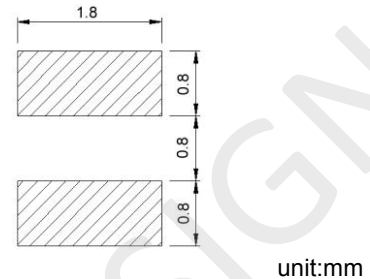
**Automotive
AEC-Q200**

LVF201B12 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF201B12-R47□-AU	0.47	1MHz,200mV	0.051	2.70(2.40)	2.30(2.00)	20,30	A
LVF201B12-R68□-AU	0.68	1MHz,200mV	0.074	2.20(1.90)	2.00(1.80)	20,30	L
LVF201B12-1R5□-AU	1.5	1MHz,200mV	0.130	1.60(1.40)	1.40(1.30)	20,30	D
LVF201B12-6R8□-AU	6.8	1MHz,200mV	0.465	0.82(0.73)	0.78(0.70)	20,30	H

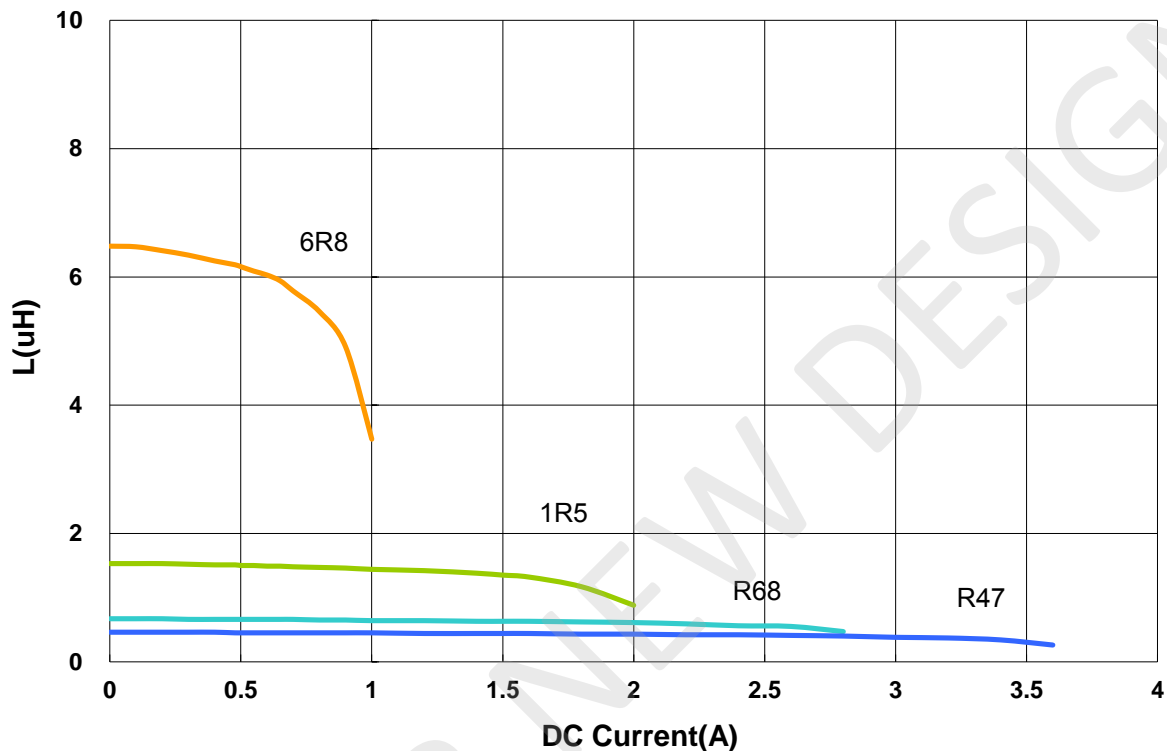
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

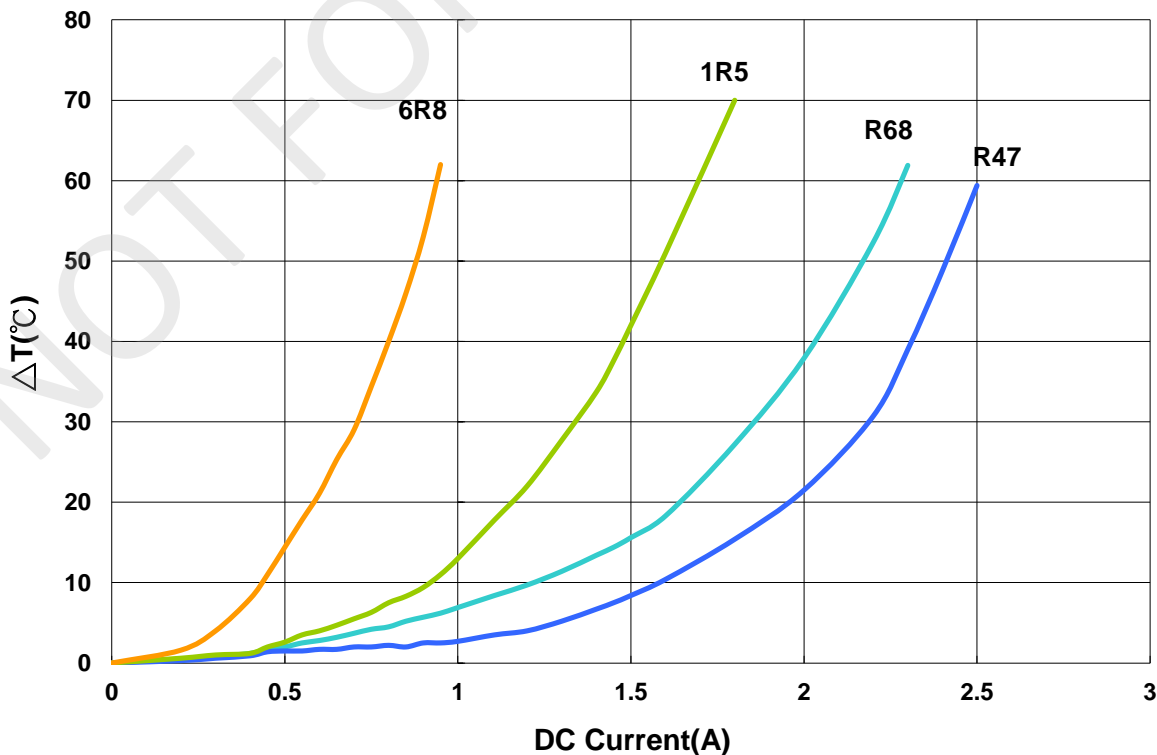
LVF201B12 - AU Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

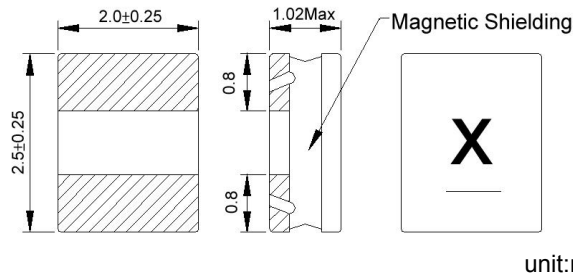


Power Inductor LVF Series

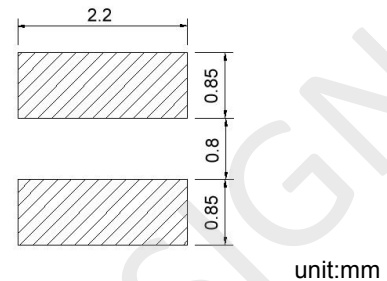
Automotive
AEC-Q200

LVF252A10 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF252A10-R47□-AU	0.47	1MHz,200mV	0.045	2.80(2.50)	2.30(2.00)	20,30	A
LVF252A10-1R0□-AU	1.0	1MHz,200mV	0.066	1.90(1.70)	2.00(1.80)	20,30	B
LVF252A10-1R5□-AU	1.5	1MHz,200mV	0.095	1.70(1.50)	1.80(1.60)	20,30	C
LVF252A10-4R7□-AU	4.7	1MHz,200mV	0.285	0.92(0.82)	0.95(0.85)	20,30	F
LVF252A10-100□-AU	10	1MHz,200mV	0.535	0.60(0.54)	0.70(0.63)	20,30	H
LVF252A10-150□-AU	15	1MHz,200mV	0.810	0.50(0.45)	0.55(0.49)	20,30	I
LVF252A10-220□-AU	22	1MHz,200mV	1.200	0.40(0.36)	0.44(0.39)	20,30	J

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

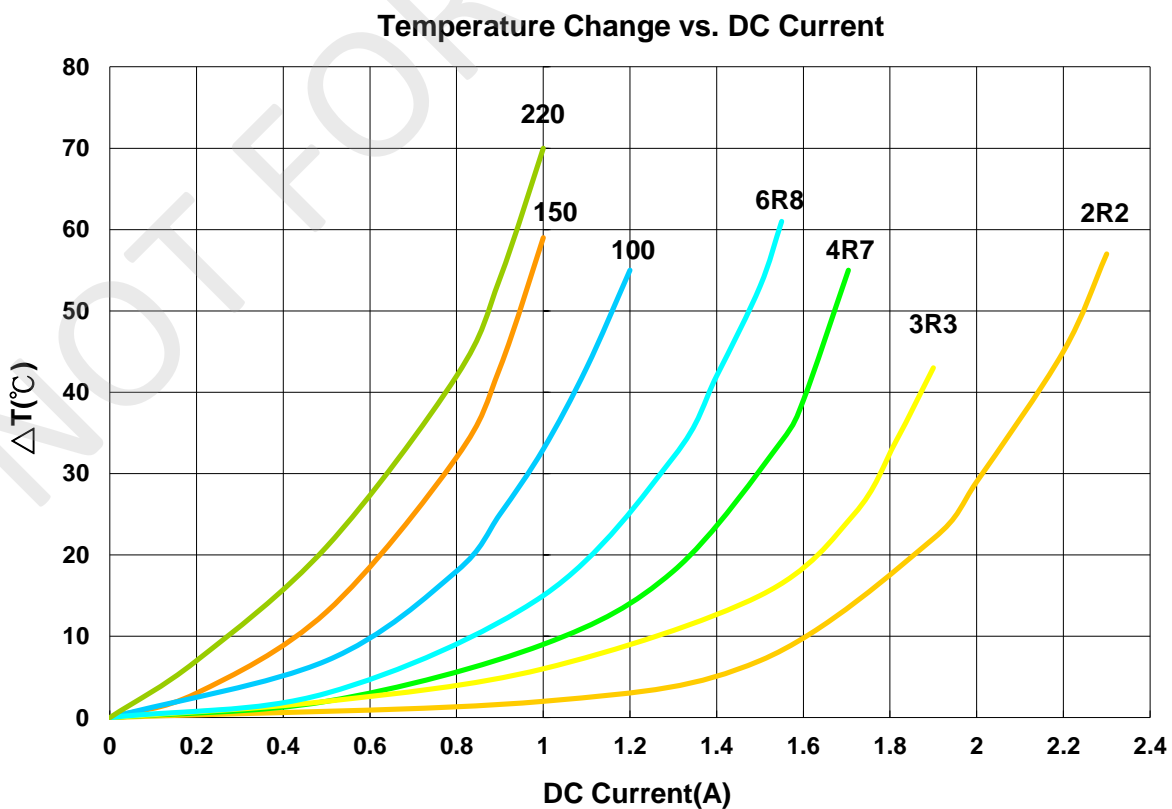
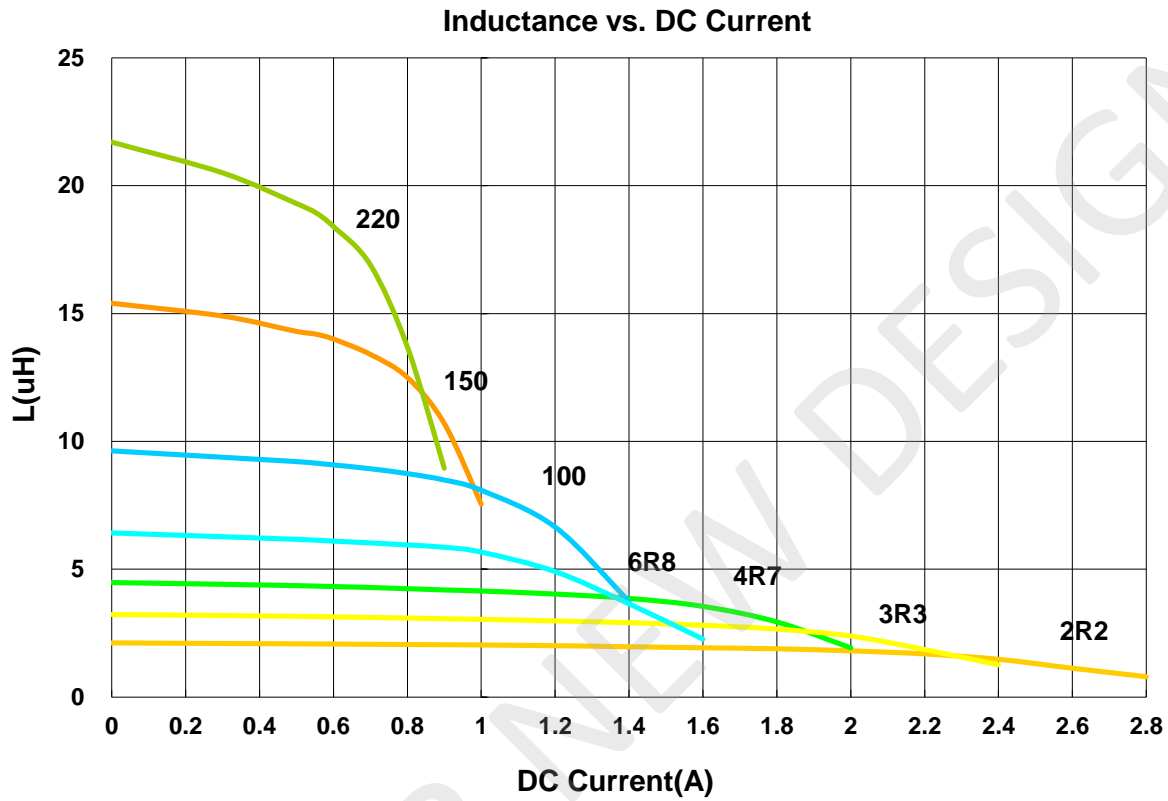
- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 - L: Agilent HP4287A+Agilent HP16197A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: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

Power Inductor LVF Series

**Automotive
AEC-Q200**

LVF252A10 - AU Type

Characteristics Graph

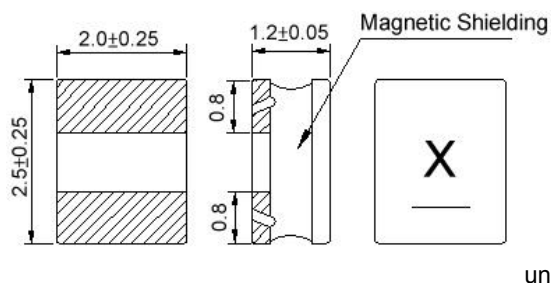


Power Inductor LVF Series

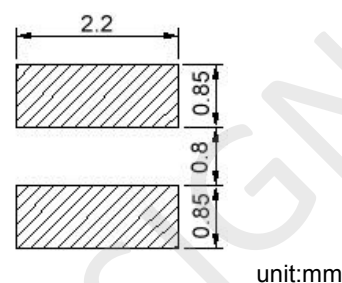
**Automotive
AEC-Q200**

LVF252A12 - AU Type

Dimensions



Recommended Land Pattern



Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF252A12-R50□-AU	0.5	1MHz,200mV	0.028	3.50(3.10)	3.00(2.70)	20,30	B
LVF252A12-1R0□-AU	1.0	1MHz,200mV	0.050	2.50(2.20)	2.40(2.10)	20,30	C
LVF252A12-1R2□-AU	1.2	1MHz,200mV	0.053	2.10(1.80)	2.35(2.10)	20,30	D
LVF252A12-1R5□-AU	1.5	1MHz,200mV	0.068	1.95(1.70)	2.30(2.00)	20,30	E
LVF252A12-2R2□-AU	2.2	1MHz,200mV	0.080	1.80(1.60)	1.80(1.60)	20,30	F
LVF252A12-3R3□-AU	3.3	1MHz,200mV	0.130	1.45(1.20)	1.50(1.30)	20,30	G
LVF252A12-4R7□-AU	4.7	1MHz,200mV	0.190	1.10(0.98)	1.10(0.98)	20,30	H
LVF252A12-5R6□-AU	5.6	1MHz,200mV	0.210	1.05(0.93)	1.00(0.89)	20,30	I
LVF252A12-6R8□-AU	6.8	1MHz,200mV	0.300	0.95(0.84)	0.80(0.71)	20,30	J
LVF252A12-100□-AU	10	1MHz,200mV	0.385	0.88(0.78)	0.70(0.62)	20,30	K
LVF252A12-150□-AU	15	1MHz,200mV	0.570	0.68(0.60)	0.62(0.54)	20,30	L
LVF252A12-220□-AU	22	1MHz,200mV	0.810	0.55(0.48)	0.53(0.46)	20,30	M

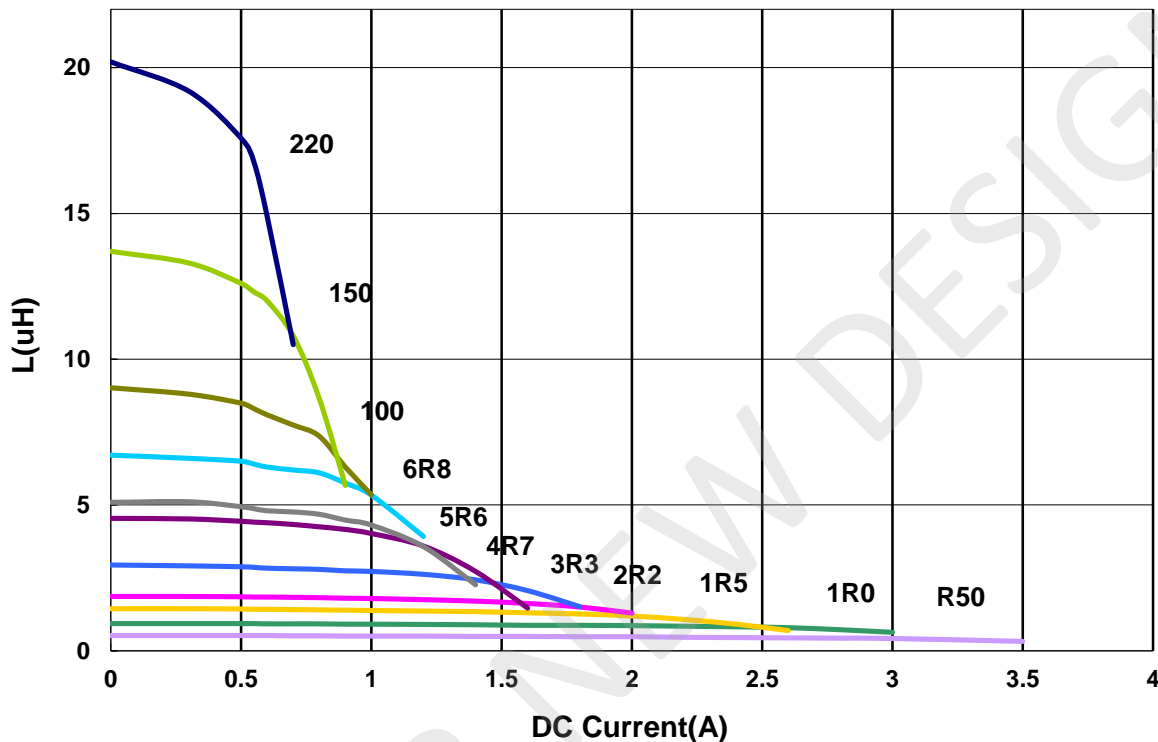
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

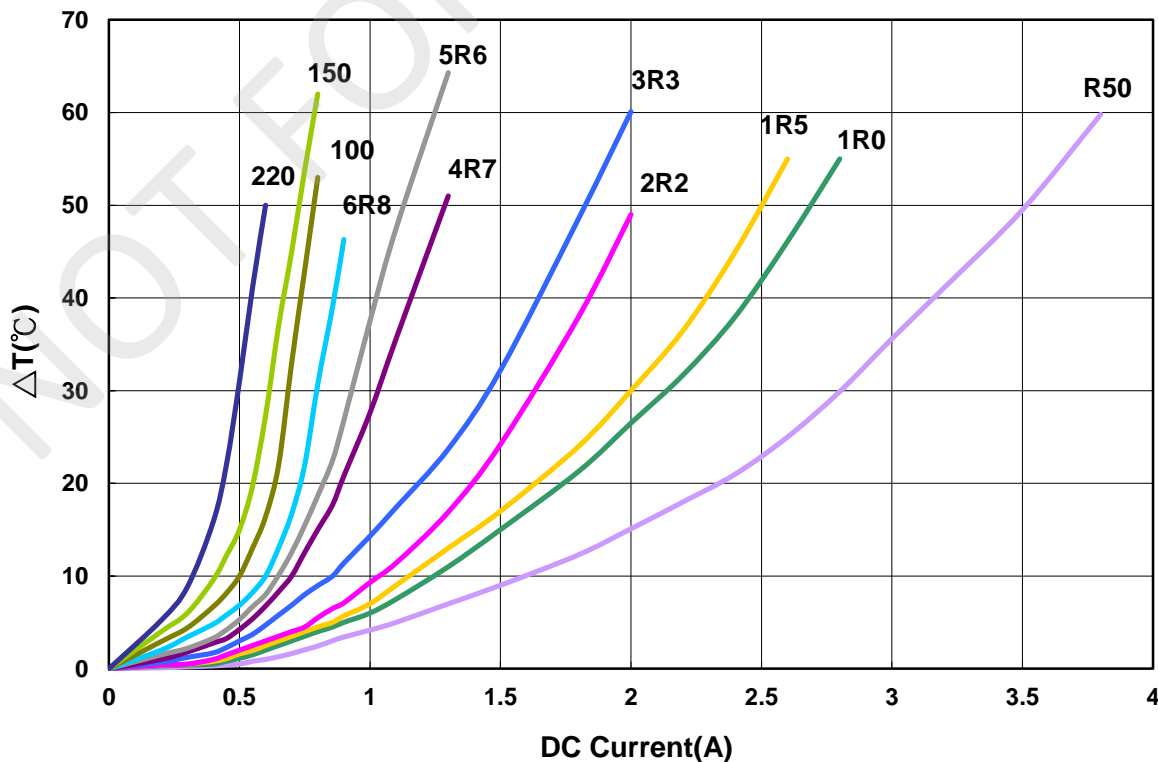
LVF252A12 - AU Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

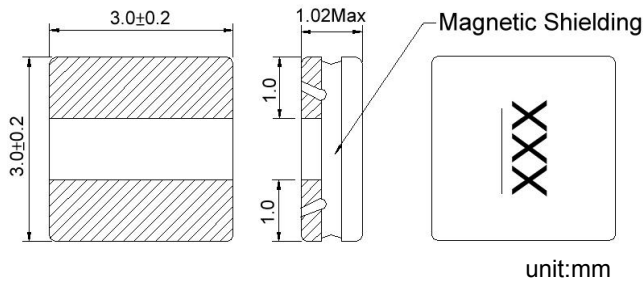


Power Inductor LVF Series

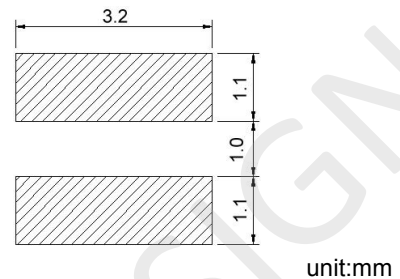
**Automotive
AEC-Q200**

LVF303010 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF303010-1R5□-AU	1.5	1MHz,200mV	0.085	1.80(1.60)	1.70(1.50)	20,30	1R5
LVF303010-2R2□-AU	2.2	1MHz,200mV	0.100	1.50(1.30)	1.40(1.20)	20,30	2R2
LVF303010-4R7□-AU	4.7	1MHz,200mV	0.205	1.00(0.90)	0.95(0.85)	20,30	4R7
LVF303010-6R8□-AU	6.8	1MHz,200mV	0.310	0.87(0.78)	0.85(0.76)	20,30	6R8
LVF303010-100□-AU	10	1MHz,200mV	0.430	0.64(0.57)	0.63(0.56)	20,30	100
LVF303010-150□-AU	15	1MHz,200mV	0.625	0.56(0.50)	0.55(0.49)	20,30	150
LVF303010-220□-AU	22	1MHz,200mV	0.870	0.47(0.42)	0.46(0.41)	20,30	220
LVF303010-470□-AU	47	1MHz,200mV	0.870	0.29(0.26)	0.28(0.25)	20,30	470

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

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

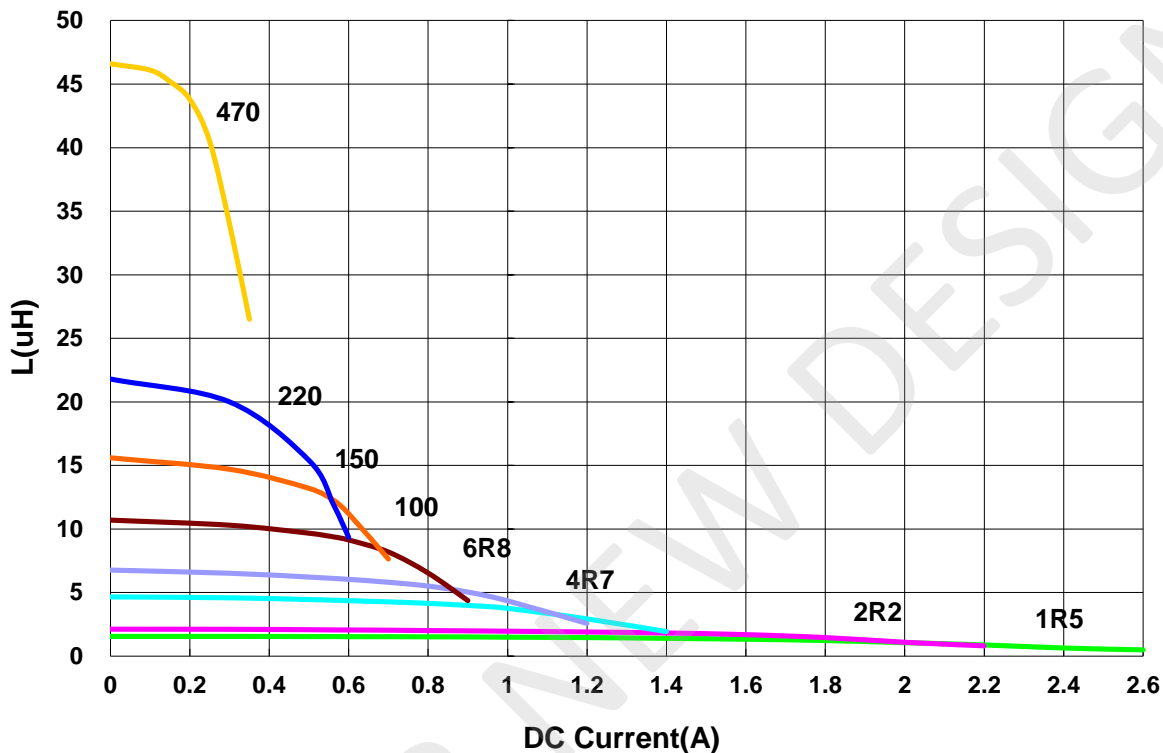
Power Inductor LVF Series

**Automotive
AEC-Q200**

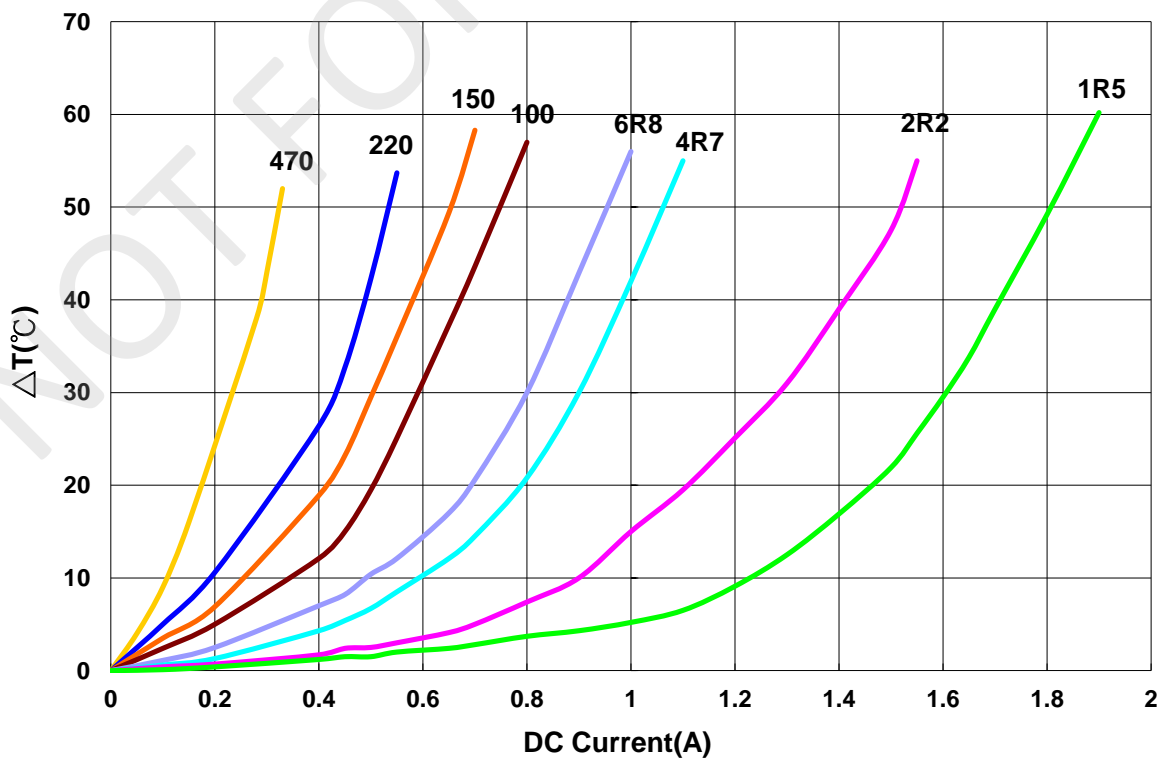
LVF303010 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

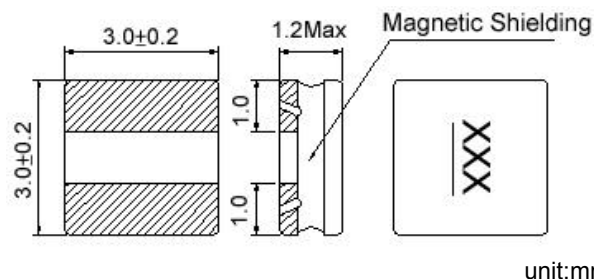


Power Inductor LVF Series

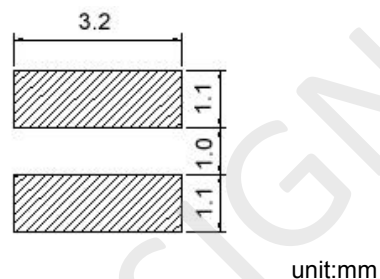
**Automotive
AEC-Q200**

LVF303012 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF303012-2R2□-AU	2.2	1MHz,200mV	0.092	2.10(1.80)	2.00(1.80)	20,30	2R2
LVF303012-3R3□-AU	3.3	1MHz,200mV	0.130	1.84(1.60)	1.80(1.60)	20,30	3R3
LVF303012-4R7□-AU	4.7	1MHz,200mV	0.180	1.56(1.40)	1.52(1.30)	20,30	4R7
LVF303012-6R8□-AU	6.8	1MHz,200mV	0.250	1.32(1.10)	1.30(1.10)	20,30	6R8
LVF303012-100□-AU	10	1MHz,200mV	0.420	1.06(0.95)	1.00(0.90)	20,30	100
LVF303012-150□-AU	15	1MHz,200mV	0.560	0.82(0.73)	0.80(0.72)	20,30	150
LVF303012-220□-AU	22	1MHz,200mV	0.860	0.64(0.57)	0.62(0.55)	20,30	220
LVF303012-470□-AU	47	1MHz,200mV	1.820	0.49(0.44)	0.43(0.38)	20,30	470

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

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

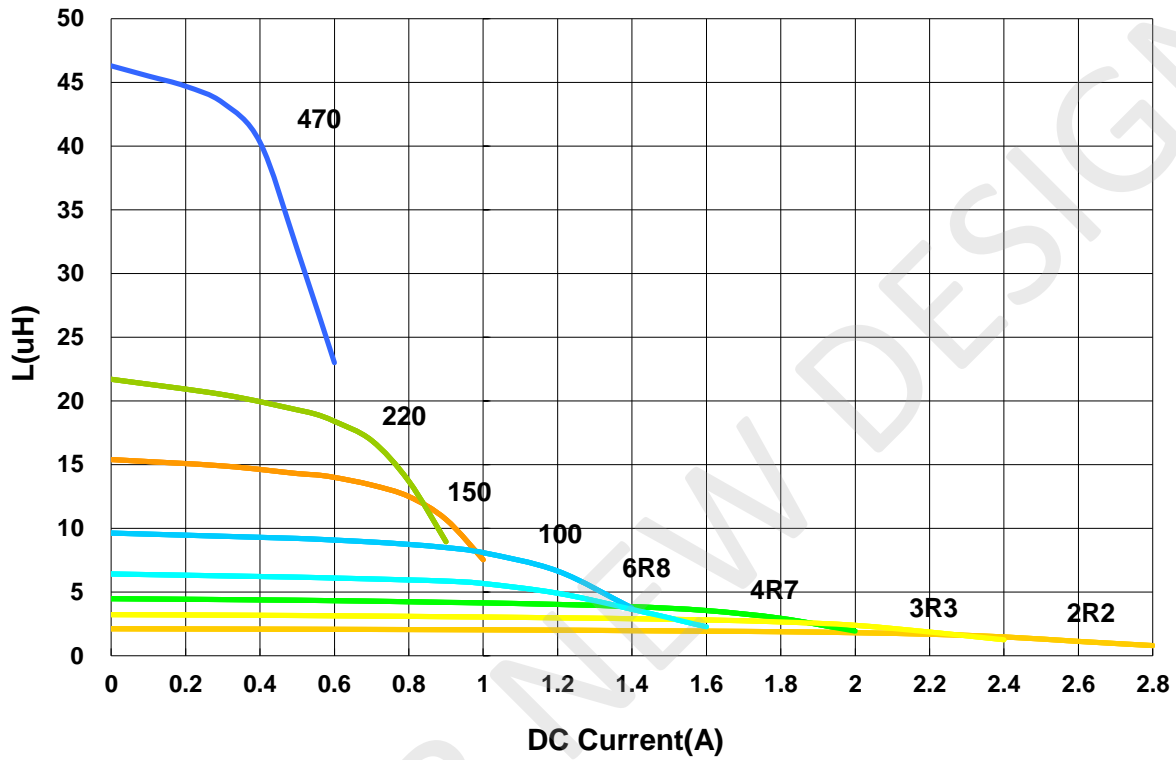
Power Inductor LVF Series

**Automotive
AEC-Q200**

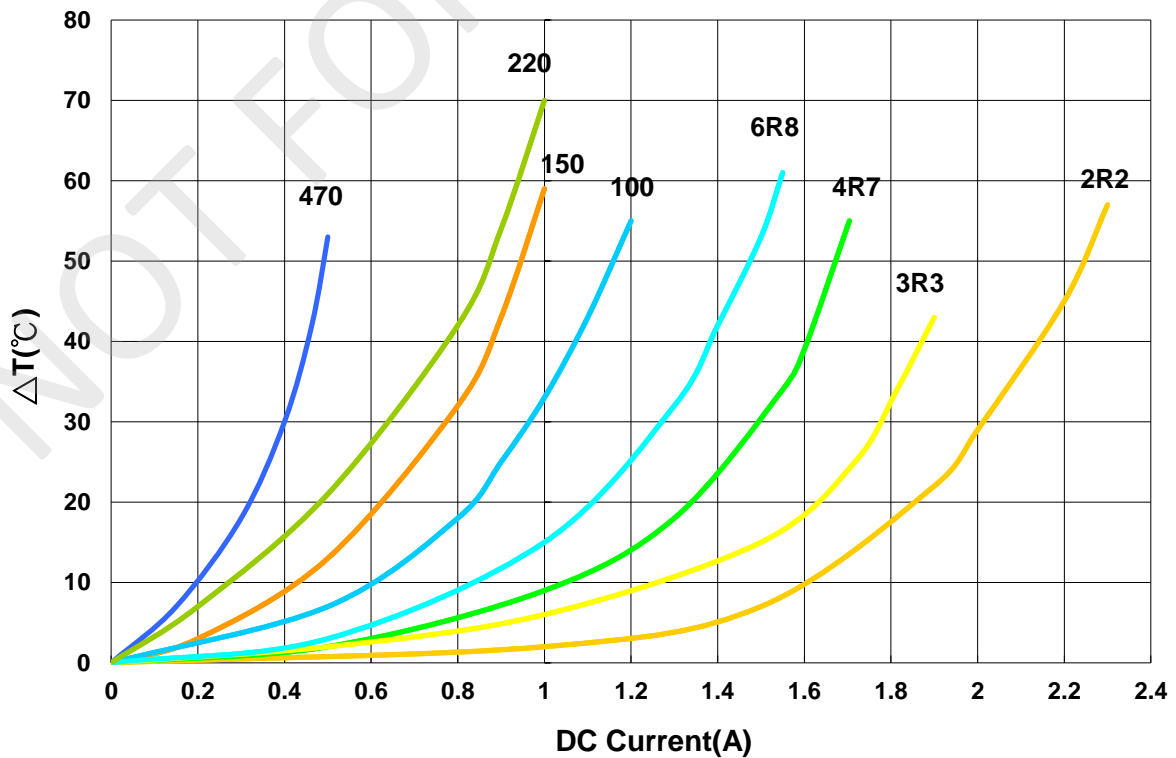
LVF303012 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

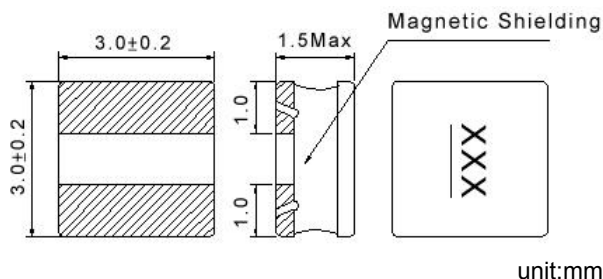


Power Inductor LVF Series

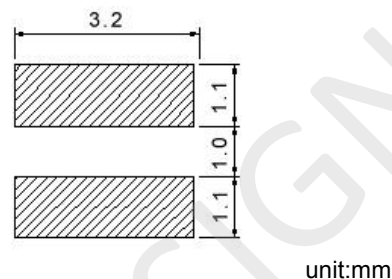
**Automotive
AEC-Q200**

LVF303015 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF303015-R47□-AU	0.47	1MHz,200mV	0.036	4.70(4.20)	4.00(3.60)	20,30	R47
LVF303015-1R0□-AU	1.0	1MHz,200mV	0.054	3.40(3.00)	3.00(2.70)	20,30	1R0
LVF303015-1R5□-AU	1.5	1MHz,200mV	0.063	3.00(2.70)	2.60(2.30)	20,30	1R5
LVF303015-2R2□-AU	2.2	1MHz,200mV	0.09	2.30(2.00)	2.00(1.80)	20,30	2R2
LVF303015-3R3□-AU	3.3	1MHz,200mV	0.125	1.90(1.70)	1.80(1.60)	20,30	3R3
LVF303015-4R7□-AU	4.7	1MHz,200mV	0.17	1.58(1.40)	1.52(1.30)	20,30	4R7
LVF303015-6R8□-AU	6.8	1MHz,200mV	0.235	1.34(1.20)	1.30(1.10)	20,30	6R8
LVF303015-100□-AU	10	1MHz,200mV	0.36	1.06(0.95)	1.00(0.90)	20,30	100
LVF303015-150□-AU	15	1MHz,200mV	0.55	0.90(0.81)	0.8(0.72)	20,30	150
LVF303015-220□-AU	22	1MHz,200mV	0.77	0.76(0.68)	0.65(0.58)	20,30	220
LVF303015-330□-AU	33	1MHz,200mV	0.93	0.65(0.58)	0.6(0.54)	20,30	330
LVF303015-470□-AU	47	1MHz,200mV	1.5	0.52(0.46)	0.42(0.37)	20,30	470
LVF303015-101□-AU	100	1MHz,200mV	2.7	0.36(0.32)	0.30(0.27)	20,30	101

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

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

L: Agilent HP4287A+Agilent HP16197A

RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent

Isat: Agilent HP4284A

I rms: Agilent HP4284A

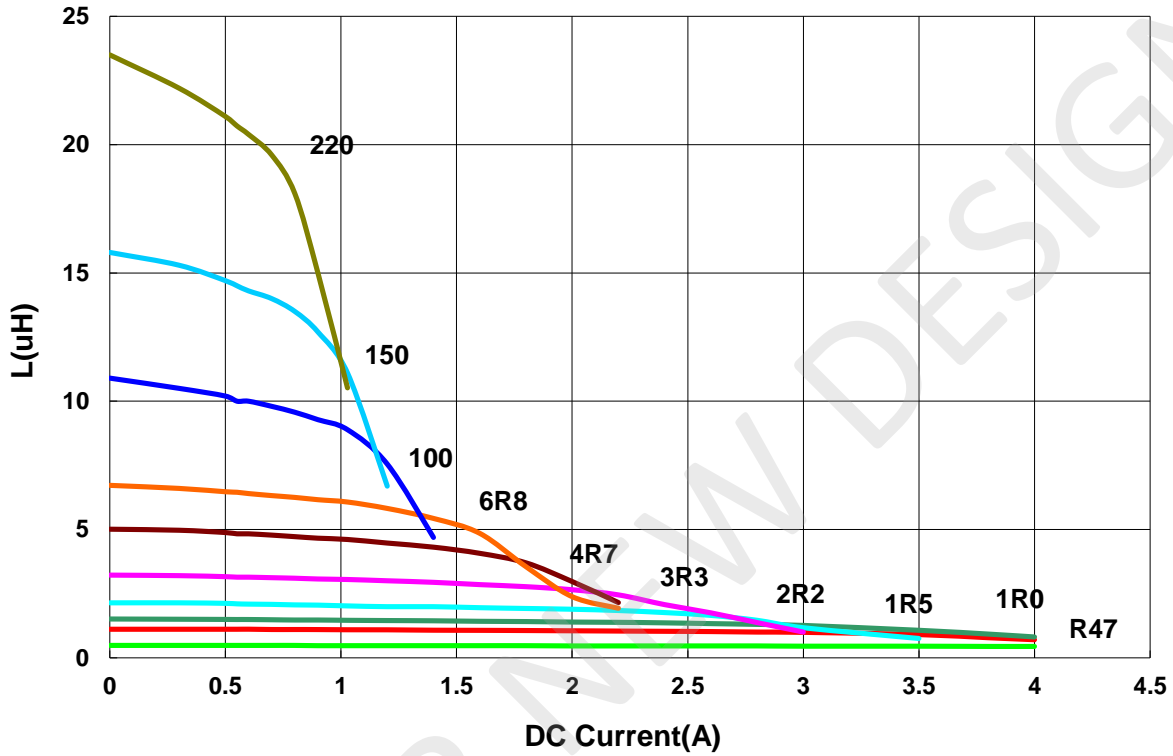
Power Inductor LVF Series

**Automotive
AEC-Q200**

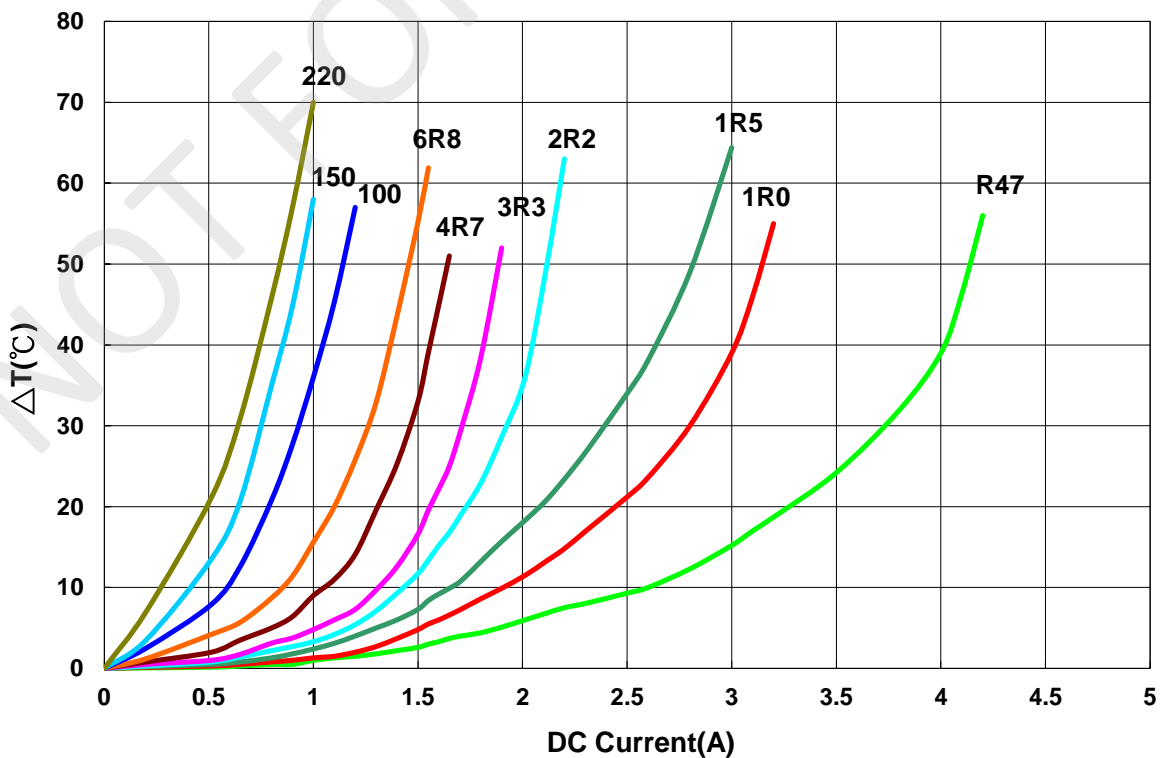
LVF303015 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

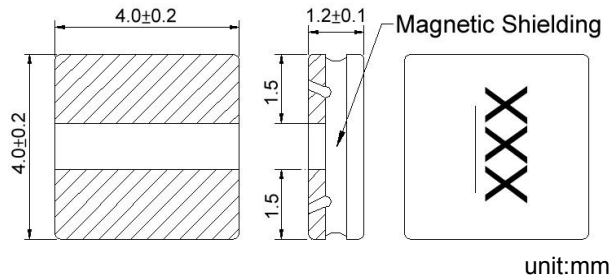


Power Inductor LVF Series

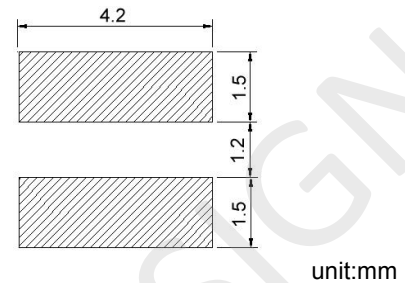
**Automotive
AEC-Q200**

LVF404012 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF404012-3R3□-AU	3.3	1MHz,200mV	0.072	1.5(1.30)	2.1(1.80)	20,30	3R3
LVF404012-100□-AU	10	1MHz,200mV	0.190	0.9(0.81)	1.2(1.00)	20,30	100

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

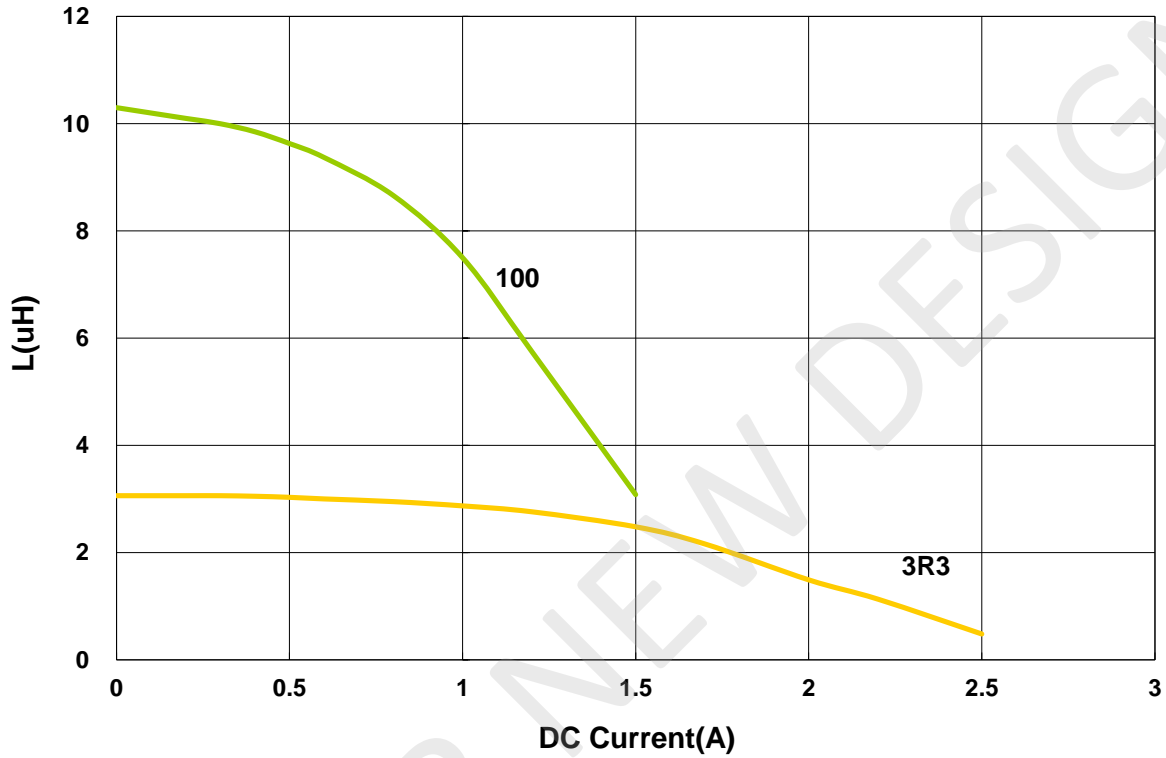
- Operating temperature range - 40°C ~ 125°C
- Isat for Inductance drop 30% from its value without current
- Irms for a 40°C temperature rise from 25°C ambient with current
- Measure Equipment:
 - L: Agilent HP4284A+Agilent HP42841A
 - RDC: DIGITAL MILLINHM METER CHROMA 16502, or equivalent
 - Isat: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

NOT FOR NEW DESIGN

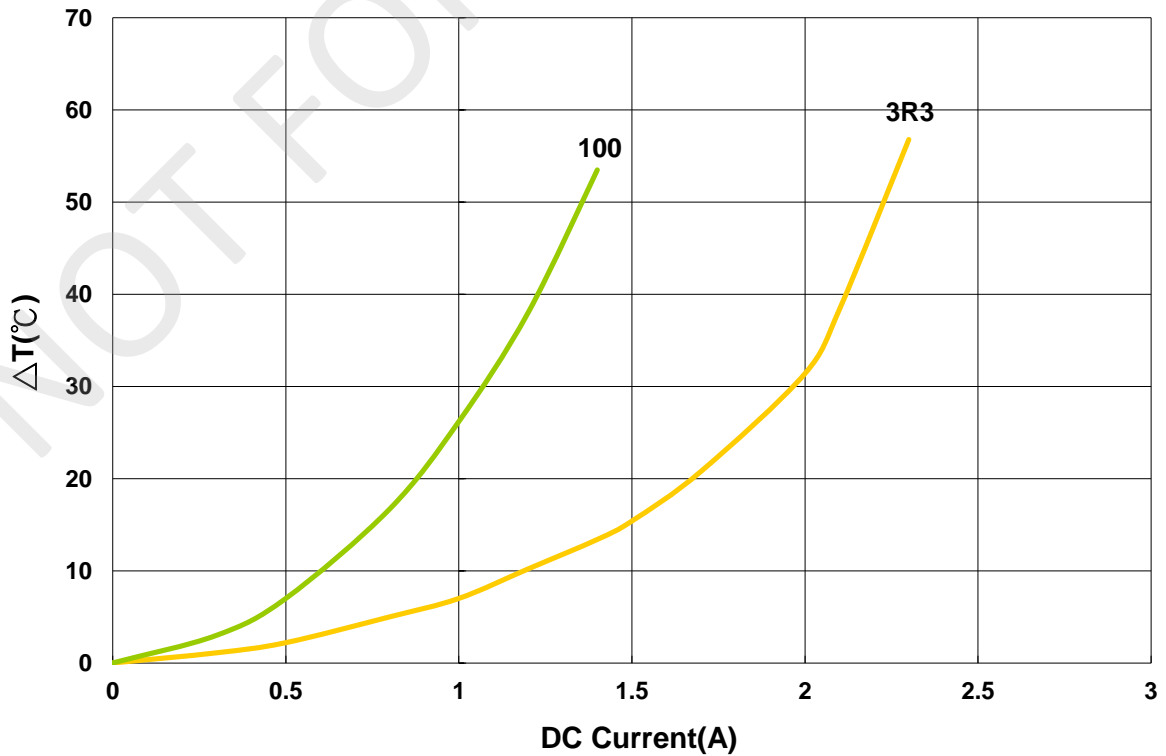
LVF404012 - AU Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

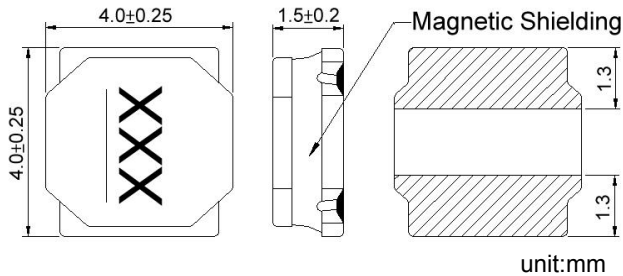


Power Inductor LVF Series

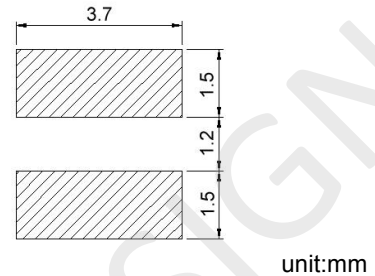
**Automotive
AEC-Q200**

LVF404015 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF404015-R47□-AU	0.47	1MHz,200mV	0.019	4.00(3.60)	4.2(3.70)	20,30	R47
LVF404015-1R5□-AU	1.5	1MHz,200mV	0.041	3.00(2.70)	3.2(2.80)	20,30	1R5
LVF404015-2R2□-AU	2.2	1MHz,200mV	0.054	2.30(2.00)	2.6(2.30)	20,30	2R2
LVF404015-4R7□-AU	4.7	1MHz,200mV	0.100	1.60(1.40)	1.8(1.60)	20,30	4R7
LVF404015-6R8□-AU	6.8	1MHz,200mV	0.138	1.40(1.20)	1.6(1.40)	20,30	6R8
LVF404015-100□-AU	10	1MHz,200mV	0.200	1.00(0.90)	1.2(1.00)	20,30	100
LVF404015-150□-AU	15	1MHz,200mV	0.300	0.92(0.82)	1.0(0.94)	20,30	150
LVF404015-220□-AU	22	1MHz,200mV	0.400	0.72(0.64)	0.85(0.76)	20,30	220

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

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

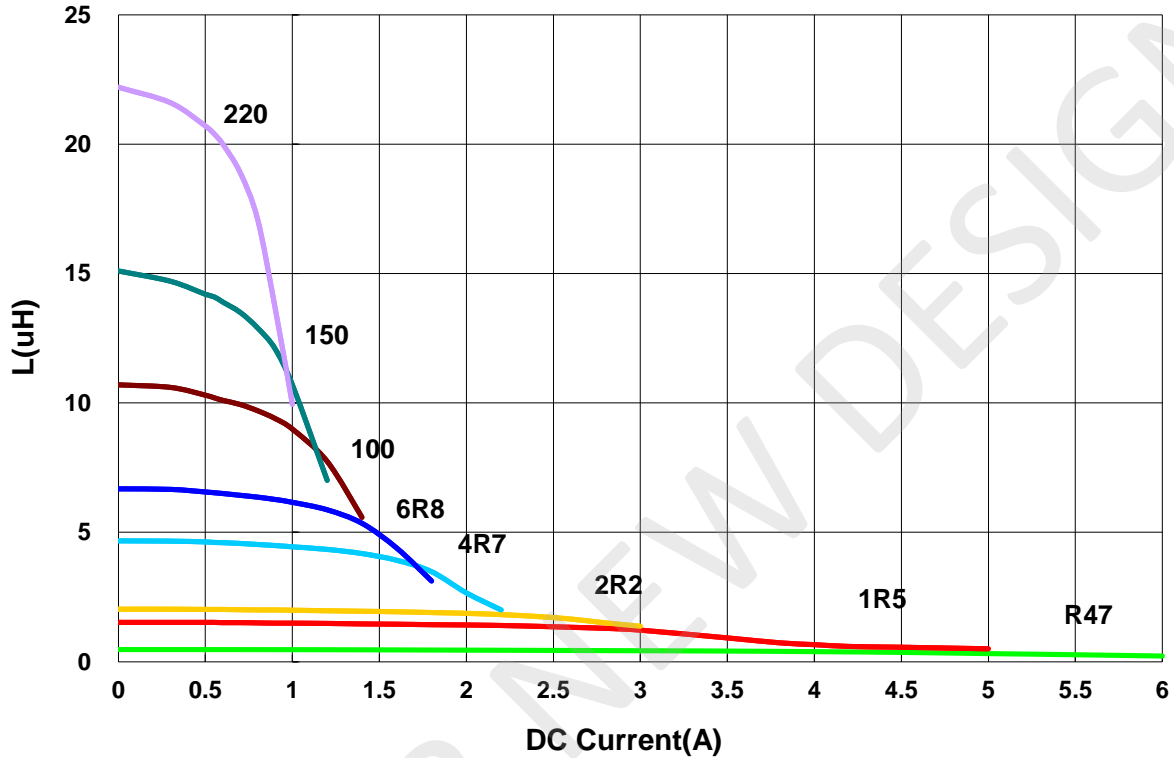
Power Inductor LVF Series

**Automotive
AEC-Q200**

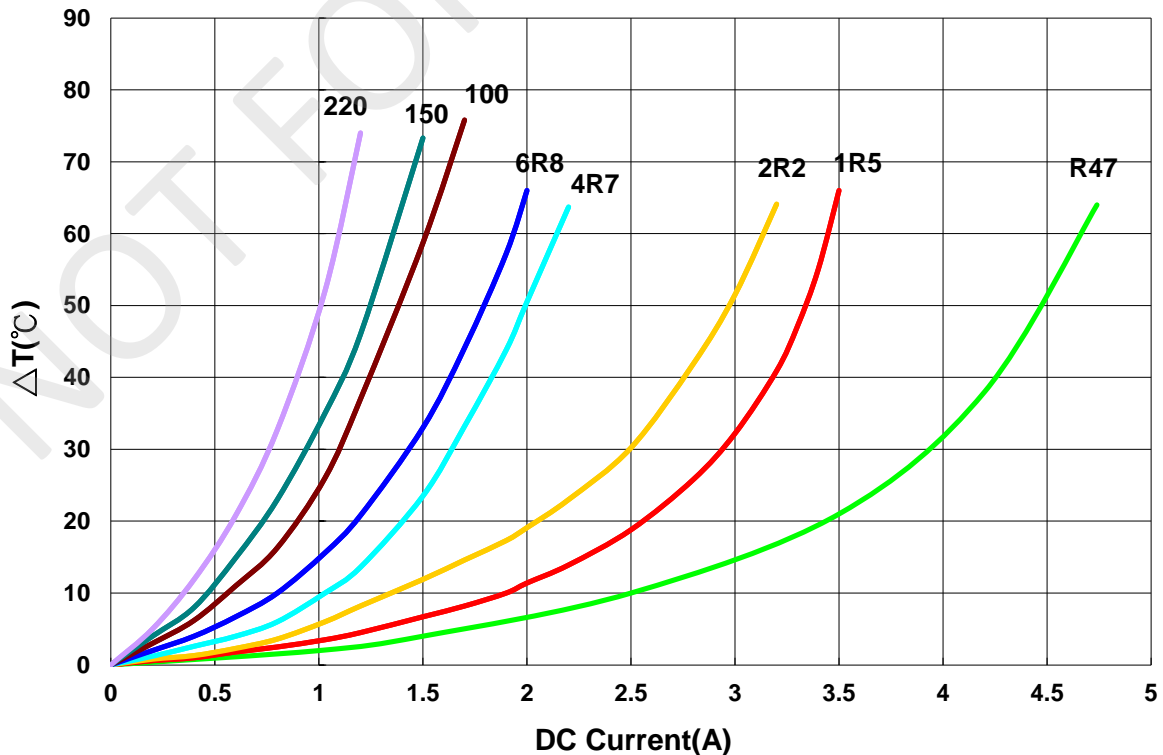
LVF404015 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

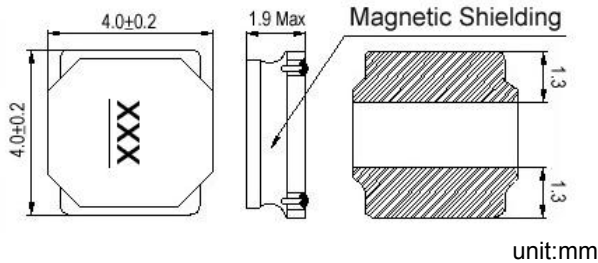


Power Inductor LVF Series

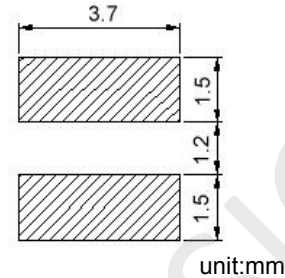
**Automotive
AEC-Q200**

LVF404018 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF404018-1R0□-AU	1.0	100kHz,1V	0.0265	4.20(3.70)	3.80(3.40)	20,30	1R0
LVF404018-1R5□-AU	1.5	100kHz,1V	0.0370	3.50(3.10)	3.20(2.80)	20,30	1R5
LVF404018-2R2□-AU	2.2	100kHz,1V	0.0470	3.00(2.70)	2.70(2.40)	20,30	2R2
LVF404018-3R3□-AU	3.3	100kHz,1V	0.0625	2.30(2.00)	2.10(1.80)	20,30	3R3
LVF404018-220□-AU	22	100kHz,1V	0.335	0.90(0.81)	0.88(0.79)	20,30	220

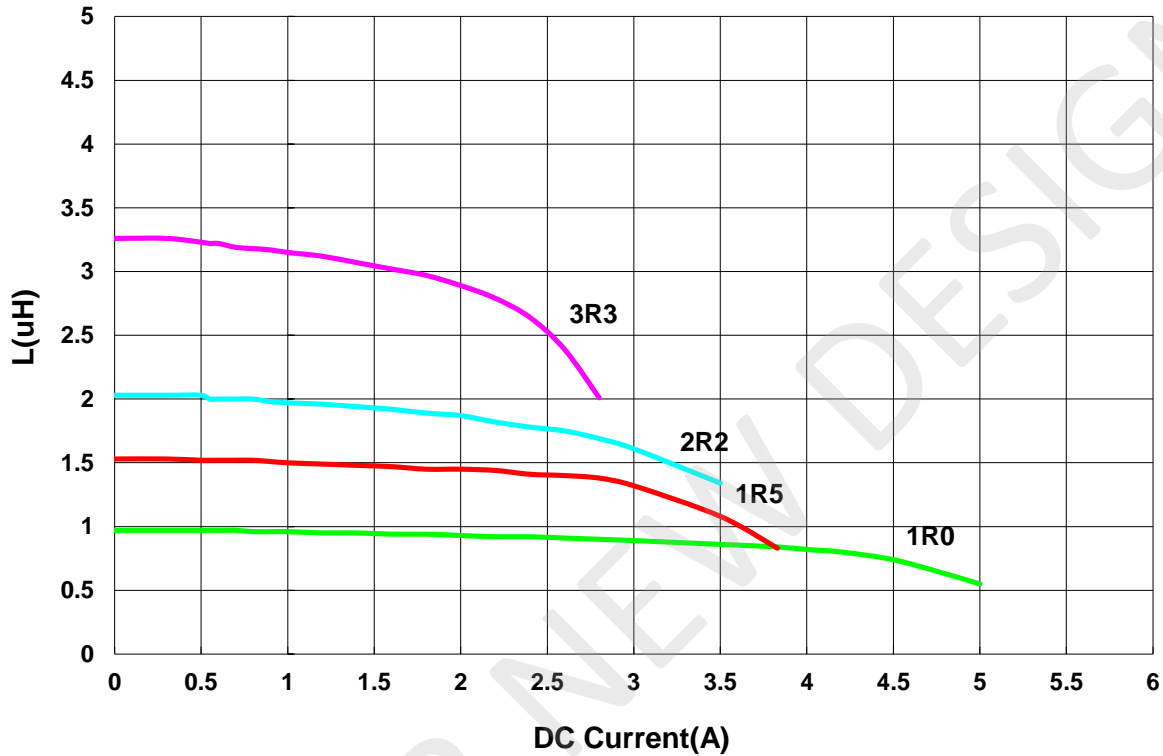
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

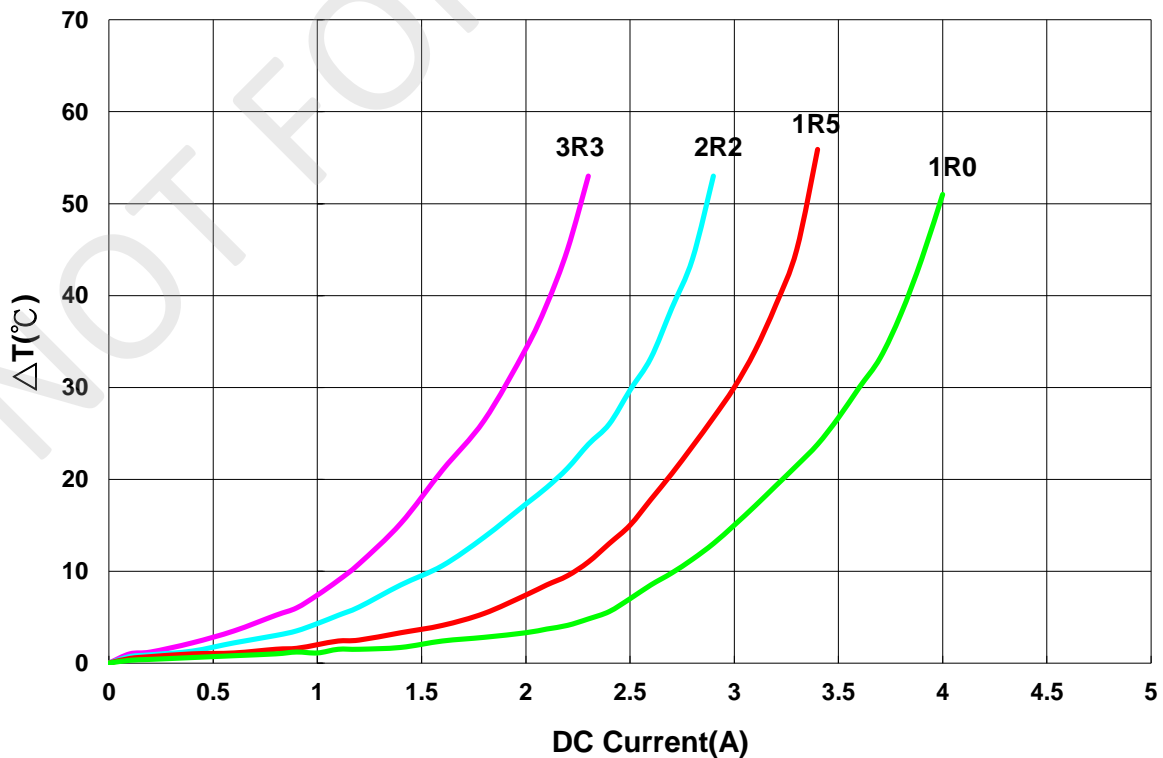
LVF404018 - AU Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

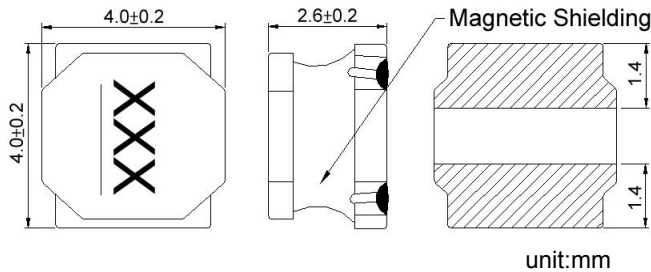


Power Inductor LVF Series

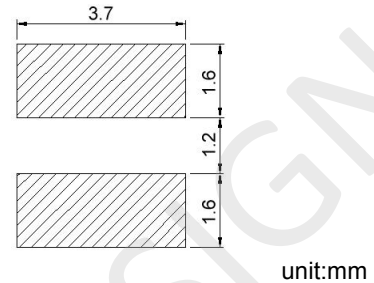
**Automotive
AEC-Q200**

LVF404026 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF404026-1R0□-AU	1.0	100kHz,1V	0.030	5.00(4.50)	4.00(3.60)	20,30	1R0
LVF404026-1R5□-AU	1.5	100kHz,1V	0.035	4.20(3.70)	3.70(3.3)	20,30	1R5
LVF404026-2R2□-AU	2.2	100kHz,1V	0.045	3.80(3.40)	3.50(3.1)	20,30	2R2
LVF404026-3R3□-AU	3.3	100kHz,1V	0.067	3.00(2.70)	2.50(2.2)	20,30	3R3
LVF404026-4R7□-AU	4.7	100kHz,1V	0.092	2.60(2.30)	2.00(1.80)	20,30	4R7
LVF404026-5R6□-AU	5.6	100kHz,1V	0.110	2.30(2.00)	1.90(1.70)	20,30	5R6
LVF404026-6R8□-AU	6.8	100kHz,1V	0.130	2.00(1.80)	1.70(1.50)	20,30	6R8
LVF404026-100□-AU	10	100kHz,1V	0.188	1.90(1.70)	1.40(1.20)	20,30	100
LVF404026-150□-AU	15	100kHz,1V	0.240	1.40(1.30)	1.20(1.00)	20,30	150
LVF404026-220□-AU	22	100kHz,1V	0.330	1.20(1.00)	1.00(0.90)	20,30	220
LVF404026-330□-AU	33	100kHz,1V	0.480	1.00(0.90)	0.82(0.73)	20,30	330
LVF404026-470□-AU	47	100kHz,1V	0.735	0.88(0.79)	0.64(0.57)	20,30	470
LVF404026-101□-AU	100	100kHz,1V	1.380	0.58(0.52)	0.50(0.45)	20,30	101
LVF404026-331□-AU	330	100kHz,1V	4.600	0.31(0.27)	0.25(0.22)	20,30	331

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

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

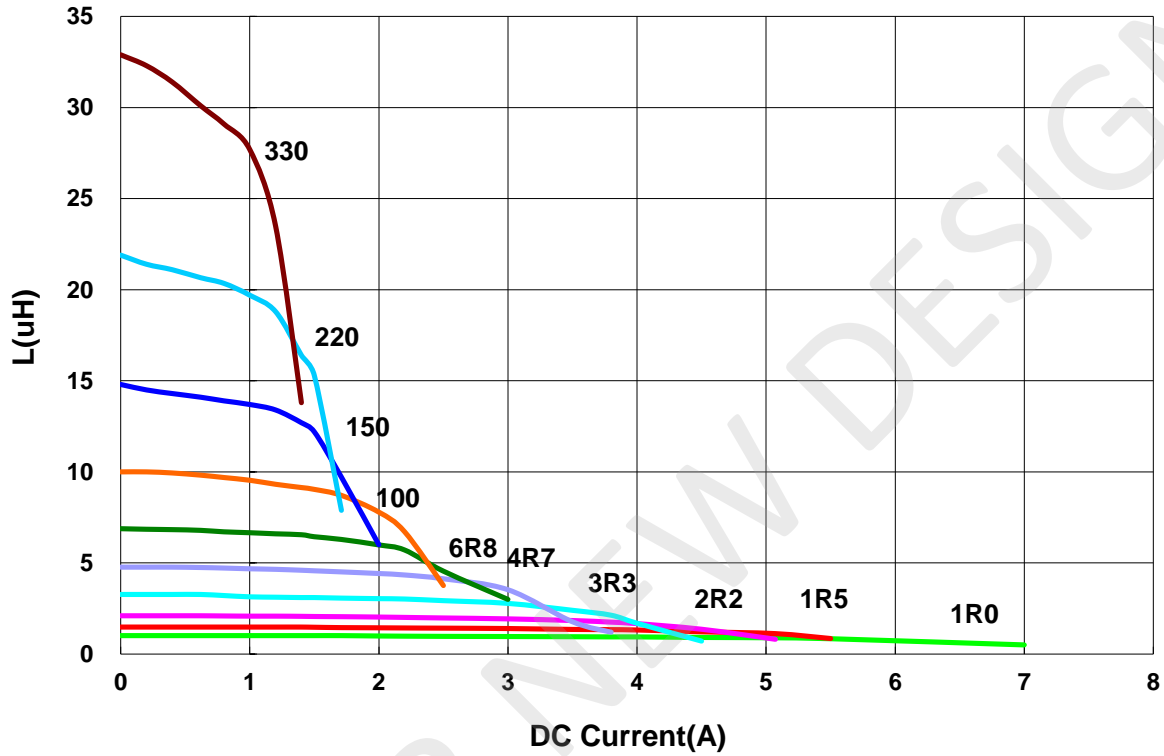
Power Inductor LVF Series

**Automotive
AEC-Q200**

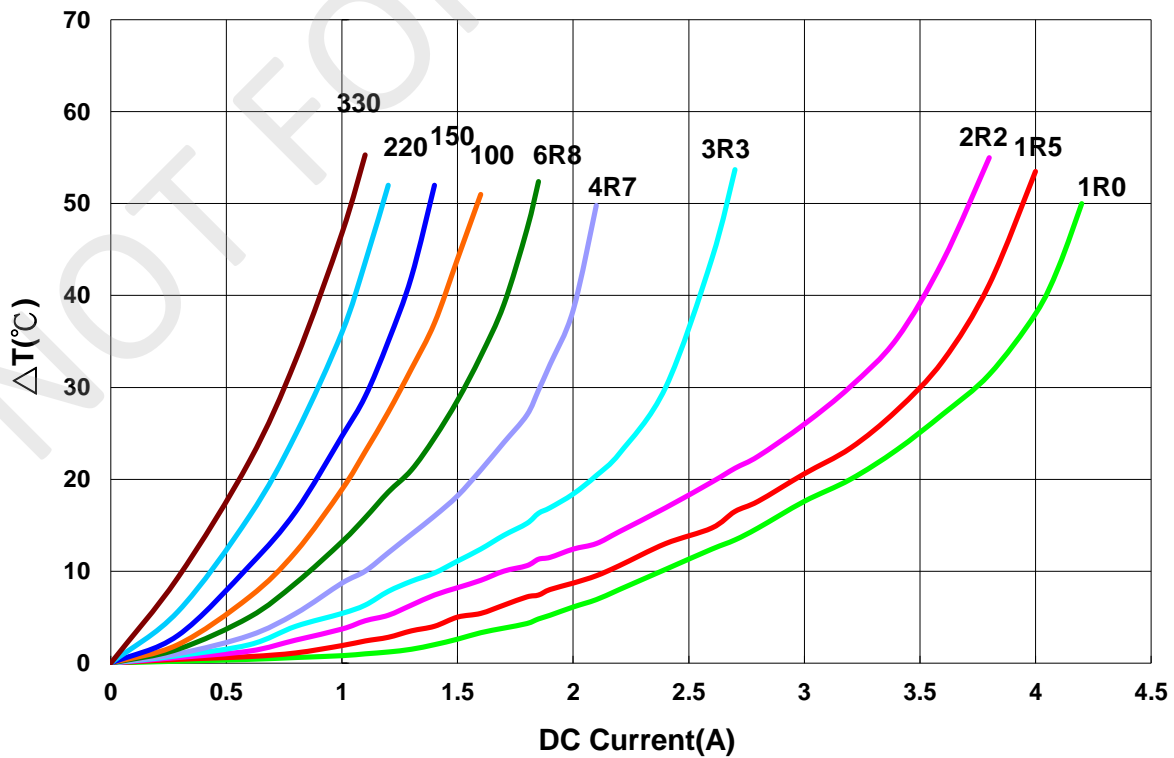
LVF404026 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

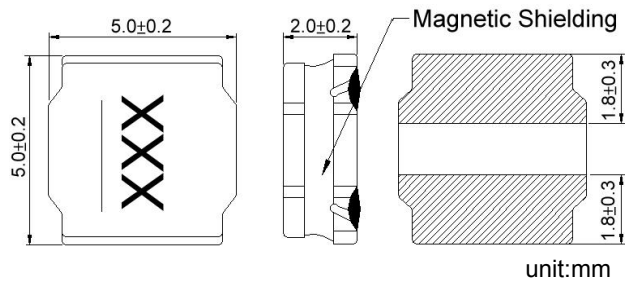


Power Inductor LVF Series

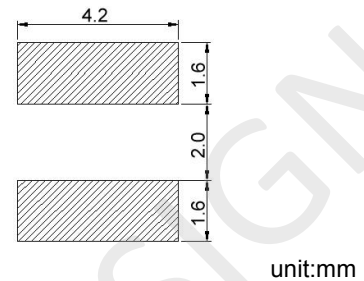
Automotive
AEC-Q200

LVF505020 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF505020-1R0□-AU	1.0	100kHz,1V	0.018	6.0(5.4)	4.1(3.6)	20,30	1R0
LVF505020-1R5□-AU	1.5	100kHz,1V	0.023	4.9(4.4)	3.5(3.1)	20,30	1R5
LVF505020-1R8□-AU	1.8	100kHz,1V	0.026	4.1(3.6)	3.4(3.0)	20,30	1R8
LVF505020-2R2□-AU	2.2	100kHz,1V	0.030	4.0(3.6)	3.3(2.9)	20,30	2R2
LVF505020-3R6□-AU	3.6	100kHz,1V	0.050	3.1(2.7)	2.7(2.4)	20,30	3R6
LVF505020-3R9□-AU	3.9	100kHz,1V	0.053	2.9(2.6)	2.6(2.3)	20,30	3R9
LVF505020-4R7□-AU	4.7	100kHz,1V	0.060	2.7(2.4)	2.2(1.9)	20,30	4R7
LVF505020-6R8□-AU	6.8	100kHz,1V	0.093	2.2(1.9)	1.8(1.6)	20,30	6R8
LVF505020-100□-AU	10	100kHz,1V	0.125	1.8(1.6)	1.6(1.4)	20,30	100
LVF505020-150□-AU	15	100kHz,1V	0.195	1.4(1.2)	1.2(1.0)	20,30	150
LVF505020-220□-AU	22	100kHz,1V	0.265	1.2(1.0)	1.0(0.9)	20,30	220

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

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

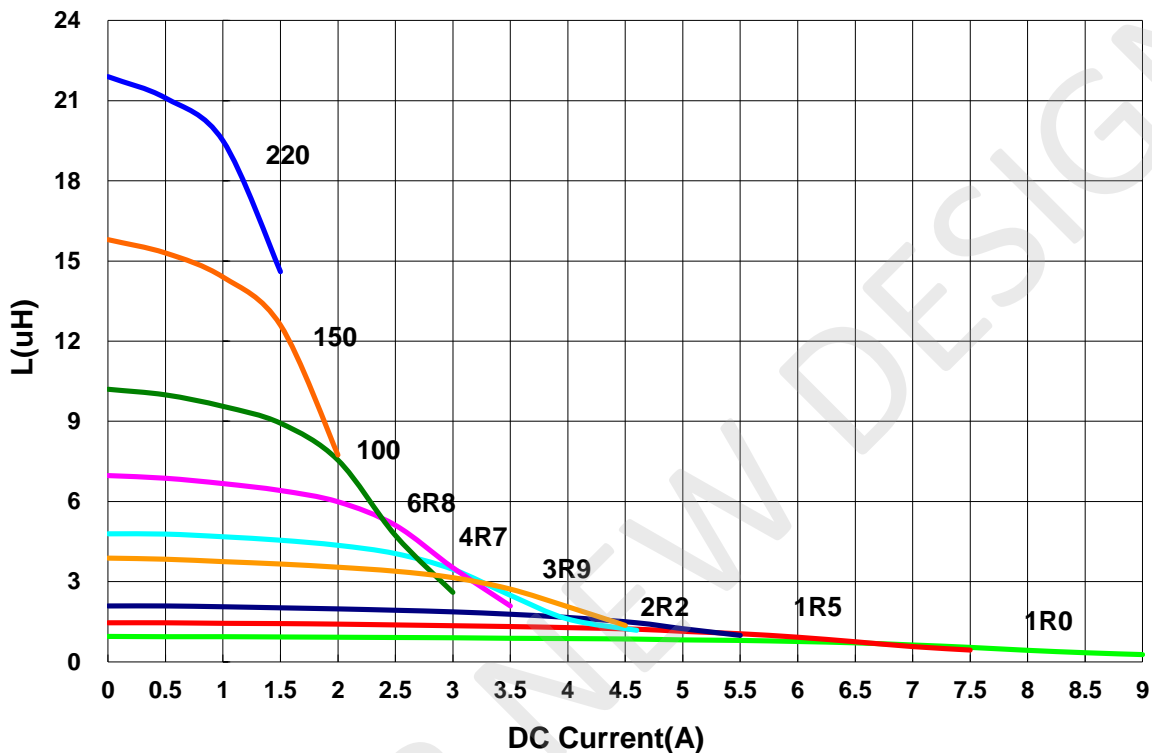
Power Inductor LVF Series

**Automotive
AEC-Q200**

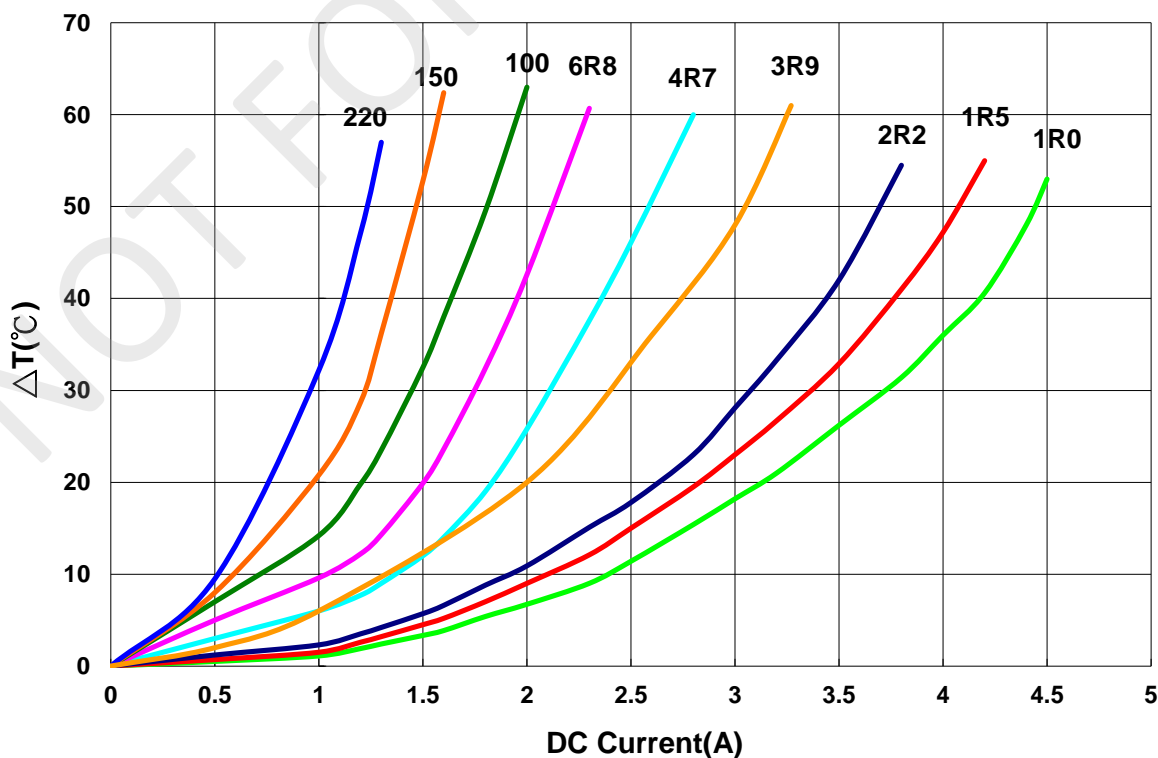
LVF505020 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

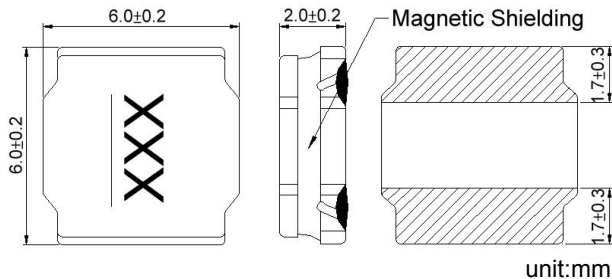


Power Inductor LVF Series

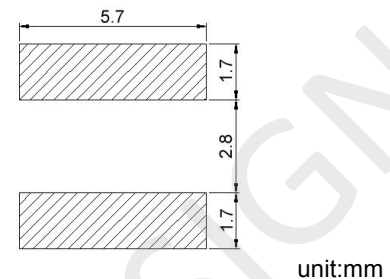
**Automotive
AEC-Q200**

LVF606020 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF606020-4R7□-AU	4.7	100kHz,1V	0.058	3.0(2.7)	2.3(2.0)	20,30	4R7
LVF606020-100□-AU	10	100kHz,1V	0.130	2.1(1.8)	1.6(1.4)	20,30	100
LVF606020-150□-AU	15	100kHz,1V	0.195	1.6(1.4)	1.3(1.1)	20,30	150
LVF606020-220□-AU	22	100kHz,1V	0.260	1.3(1.1)	1.1(0.99)	20,30	220
LVF606020-470□-AU	47	100kHz,1V	0.510	0.9(0.8)	0.8(0.72)	20,30	470

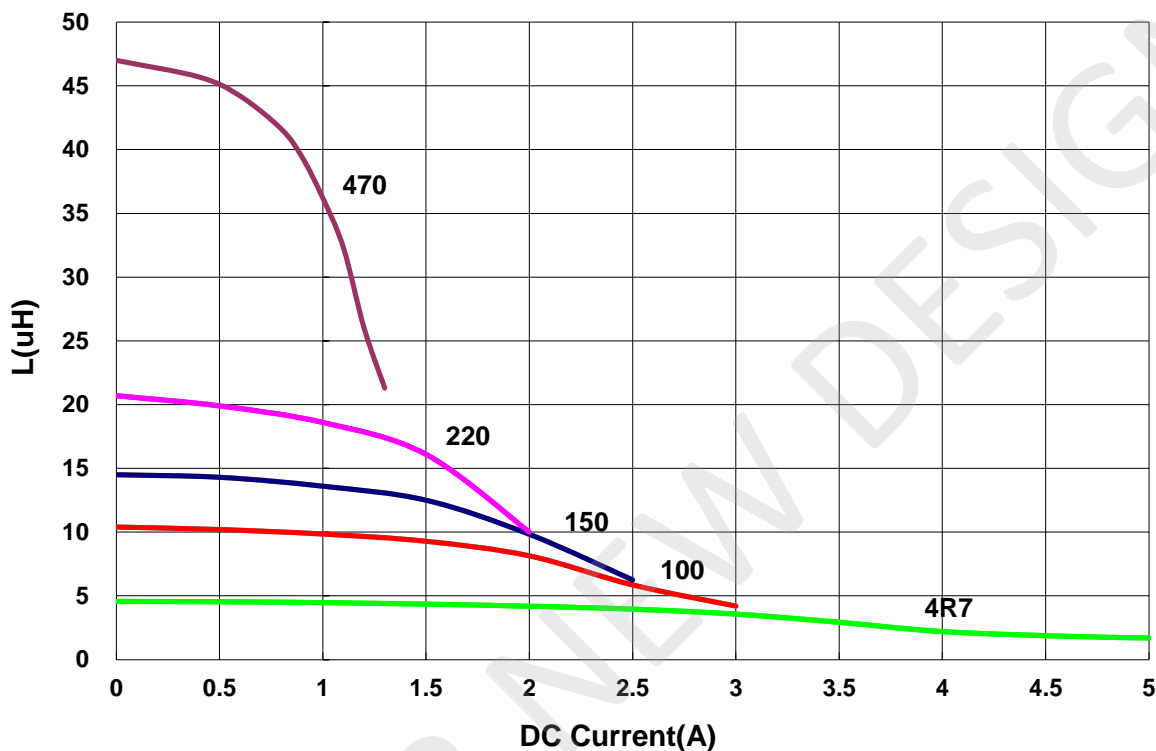
Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%

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

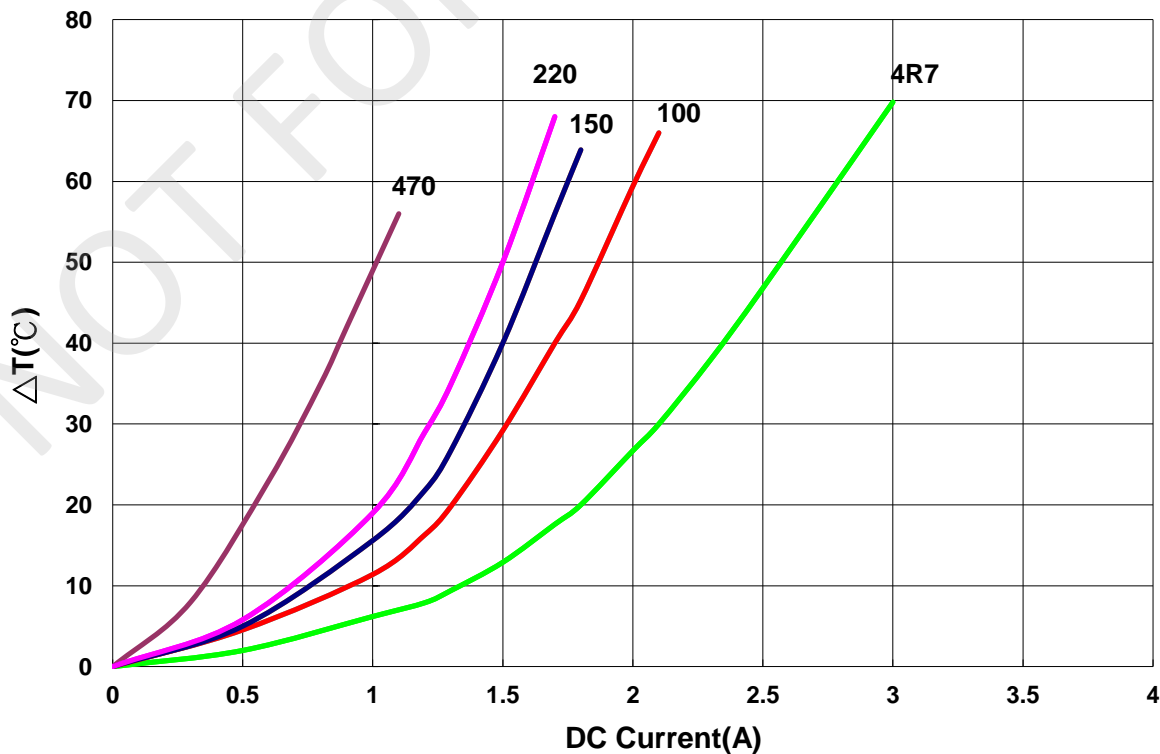
LVF606020 - AU Type

■ Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

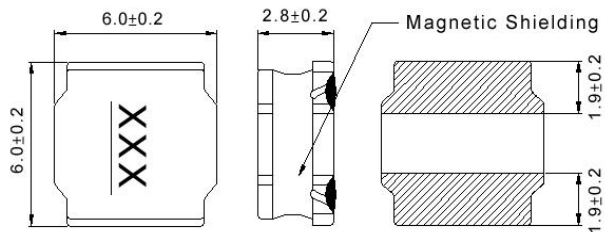


Power Inductor LVF Series

**Automotive
AEC-Q200**

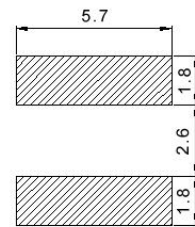
LVF606028 - AU Type

■ Dimensions



unit:mm

■ Recommended Land Pattern



unit:mm

■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF606028-1R0□-AU	1.0	100kHz,1V	0.012	7.9(7.10)	6.3(5.60)	20,30	1R0
LVF606028-1R5□-AU	1.5	100kHz,1V	0.015	7.0(6.30)	5.5(4.90)	20,30	1R5
LVF606028-2R2□-AU	2.2	100kHz,1V	0.020	6.0(5.40)	5.0(4.50)	20,30	2R2
LVF606028-4R7□-AU	4.7	100kHz,1V	0.036	4.0(3.60)	3.4(3.00)	20,30	4R7
LVF606028-6R8□-AU	6.8	100kHz,1V	0.048	3.2(2.80)	3.0(2.70)	20,30	6R8

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

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

NOT FOR NEW DESIGN

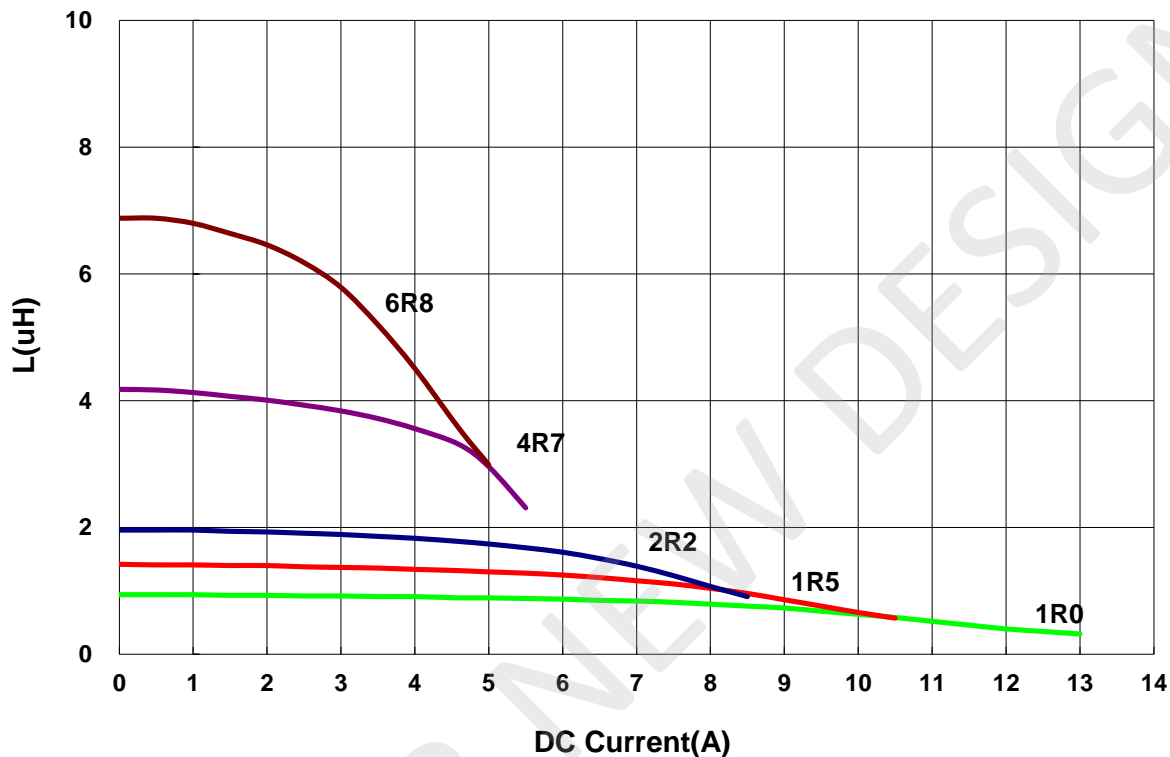
Power Inductor LVF Series

**Automotive
AEC-Q200**

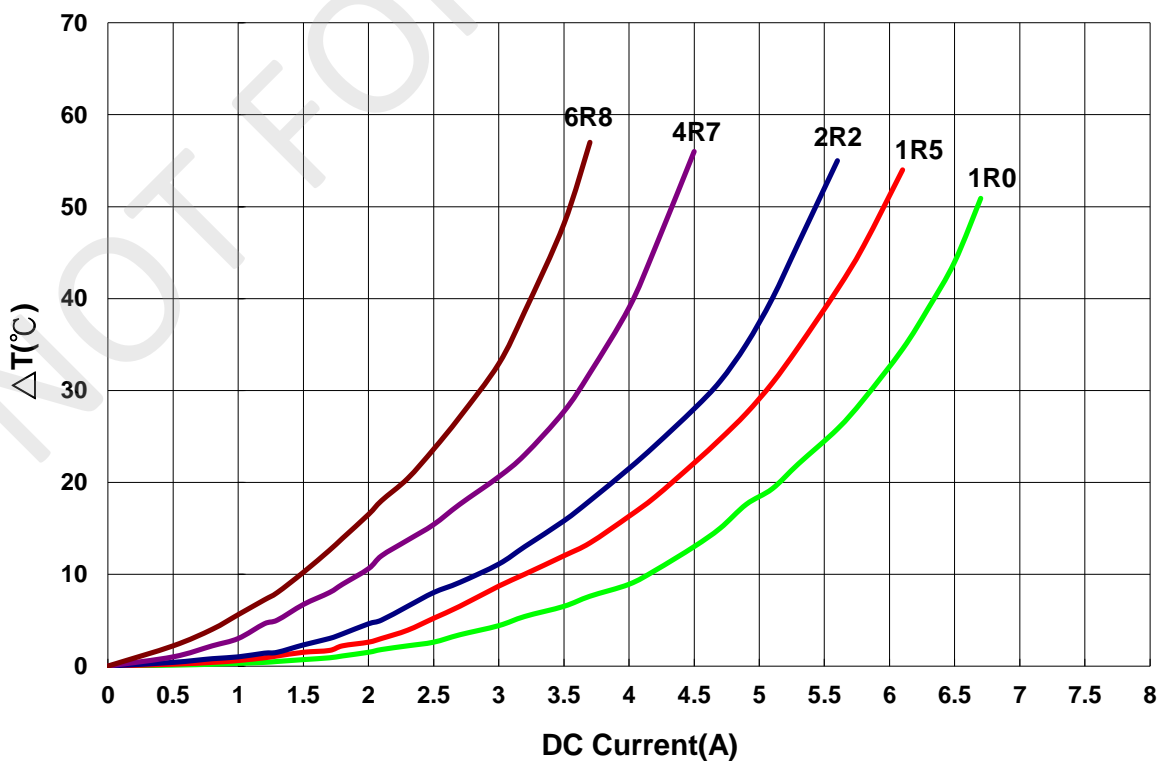
LVF606028 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

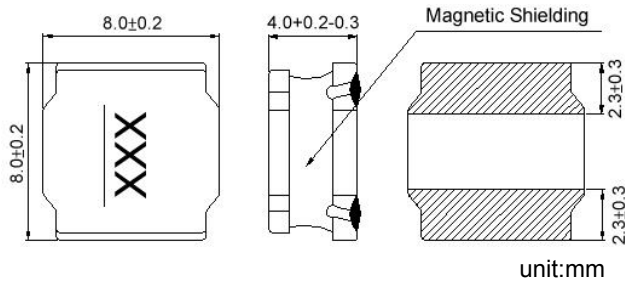


Power Inductor LVF Series

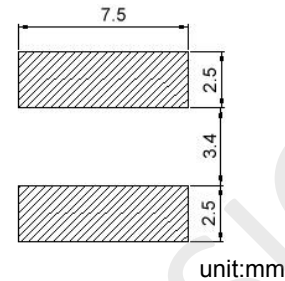
**Automotive
AEC-Q200**

LVF808040 - AU Type

■ Dimensions



■ Recommended Land Pattern



■ Electrical Characteristics

Part No.	Inductance (uH)	Test Freq.	RDC (Ω)±30%	Isat(A) Typ.(Max)	Irms(A) Typ.(Max)	Tolerance (±%)	Marking
LVF808040-4R7□-AU	4.7	100kHz,1V	0.020	6.8(6.00)	5.5(4.80)	20,30	4R7
LVF808040-100□-AU	10	100kHz,1V	0.038	5.0(4.40)	3.8(3.30)	20,30	100
LVF808040-150□-AU	15	100kHz,1V	0.057	4.0(3.50)	3.2(2.70)	20,30	150
LVF808040-220□-AU	22	100kHz,1V	0.082	3.4(2.90)	2.7(2.30)	20,30	220

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

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

NOT FOR NEW DESIGN

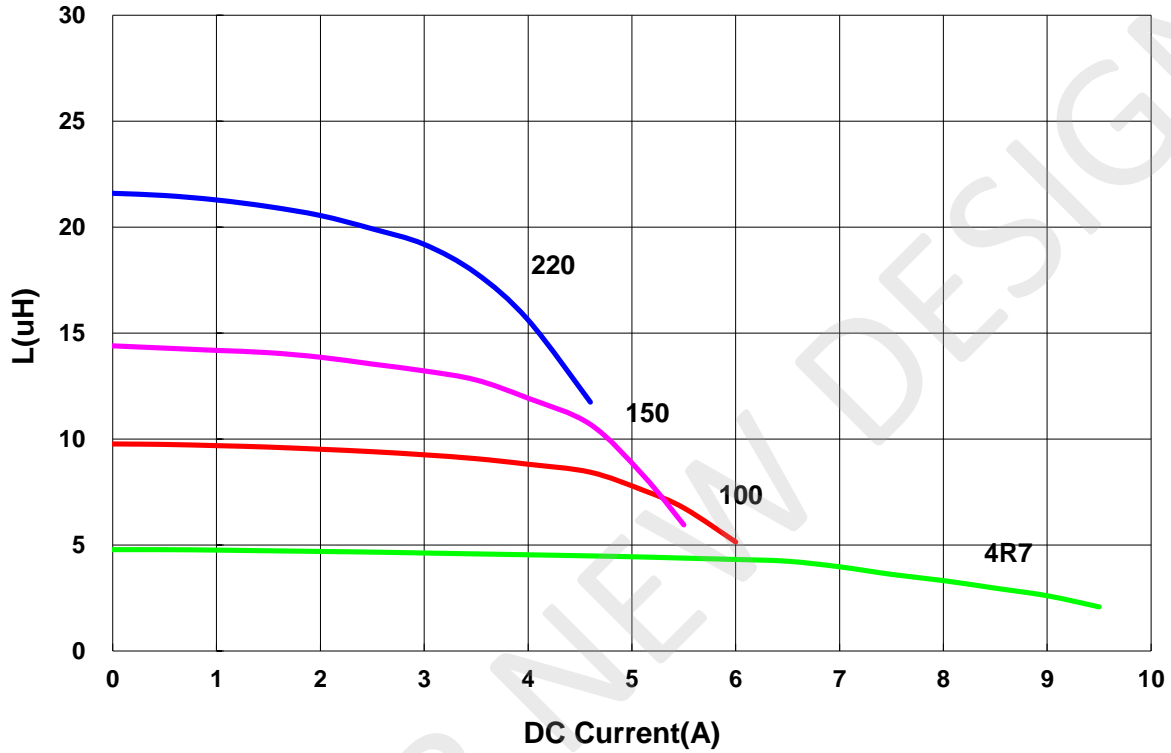
Power Inductor LVF Series

**Automotive
AEC-Q200**

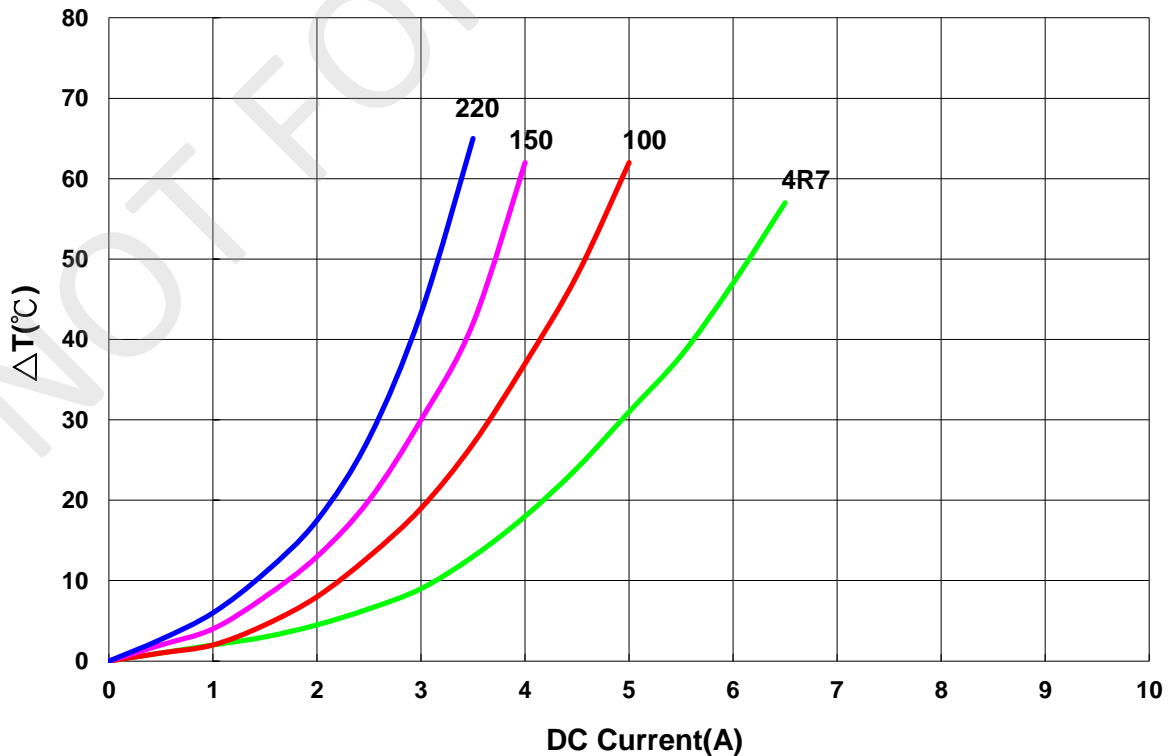
LVF808040 - AU Type

Characteristics Graph

Inductance vs. DC Current



Temperature Change vs. DC Current

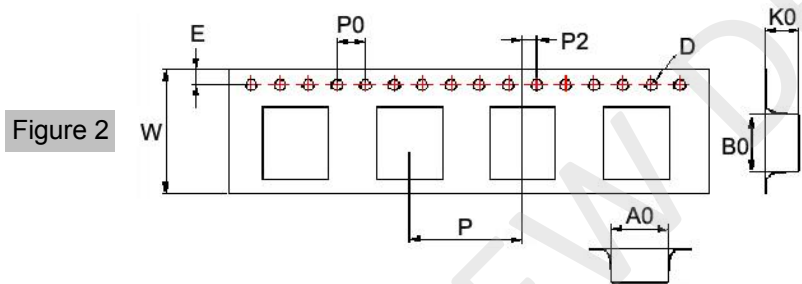
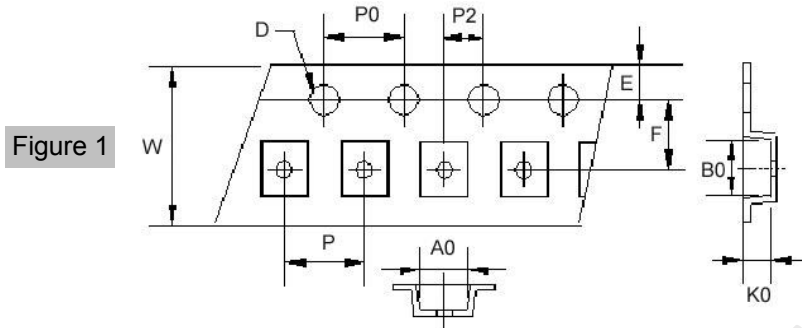


Power Inductor LVF Series

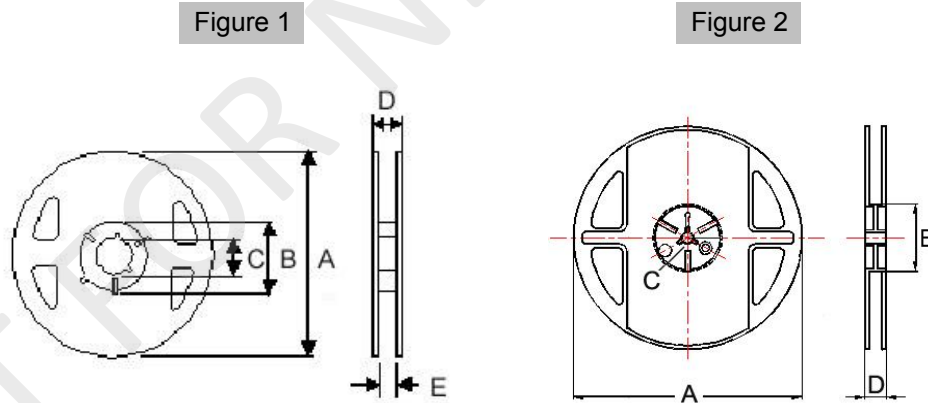
**Automotive
AEC-Q200**

■ Packaging

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Fig	Tape Dimensions										Reel Dimensions					Quantity PCS / Reel
		A0	B0	K0	D	E	F	W	P	P0	P2	A	B	C	D	E	
LVF201B12	1	1.9	2.2	1.3	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF252A10	1	2.4	2.7	1.15	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF252A12	1	2.40	2.70	1.35	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF303010	1	3.2	3.2	1.4	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF303012	1	3.20	3.20	1.40	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF303015	1	3.15	3.15	1.60	1.55	1.75	3.5	8.1	4	4	2	180	60	13	14.4	8.4	2000
LVF404012	2	4.25	4.25	1.3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVF404015	2	4.25	4.25	1.7	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	1000
LVF404018	2	4.25	4.25	2.10	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	800
LVF404026	2	4.25	4.25	3	1.55	1.75	5.5	12	8	4	2	178	60	13	13.2	-	500
LVF505020	2	5.25	5.25	2.2	1.55	1.75	5.5	12	8	4	2	330	100	13	13.4	-	2000
LVF606020	2	6.25	6.25	2.2	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	2000
LVF606028	2	6.25	6.25	3.00	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1500
LVF808040	2	8.25	8.25	4.15	1.55	1.75	7.5	16	12	4	2	330	100	13	16	-	1000