

**Power Inductor SLFA Series**

**Automotive  
AEC-Q200**

RoHS Compliant  
Halogen Free  
REACH Compliant



**Part Numbering**

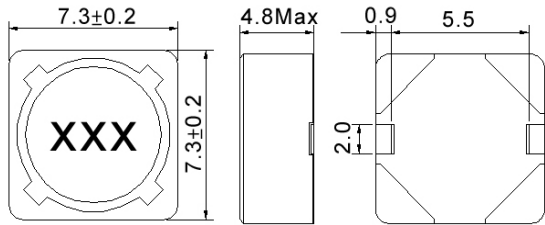
SLFA	1255	T	-	100	M	-	AU
Series Name	Dimensions Code (mm)	Internal Code		Inductance (uH)	Tolerance		Internal Code
	0745 7.3x7.3x4.8			6R0 6.0	M ±20%		
	0755 7.3x7.3x5.8			100 10	T ±30%		
	1255 12.5x12.5x5.8			101 100			
	5D28 6.3x6.3x3.0						

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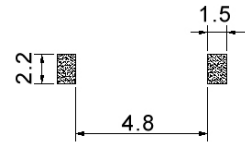
**SLFA0745 - AU Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
SLFA0745T-3R3□-AU	3.3	100 kHz,1 V	90	24	2.50	2.30	20	3R3
SLFA0745T-4R7□-AU	4.7	100 kHz,1 V	65	36	2.00	2.10	20	4R7
SLFA0745T-6R8□-AU	6.8	100 kHz,1 V	24	40	1.70	1.74	20	6R8
SLFA0745T-100□-AU	10	100 kHz,1 V	17	43.2	1.30	1.78	20	100
SLFA0745T-150□-AU	15	100 kHz,1 V	14	62.4	1.10	1.53	20	150
SLFA0745T-220□-AU	22	100 kHz,1 V	11	73.2	0.90	1.34	20	220
SLFA0745T-330□-AU	33	100 kHz,1 V	10	115	0.82	1.09	20	330
SLFA0745T-470□-AU	47	100 kHz,1 V	8.0	150	0.75	0.92	20	470
SLFA0745T-680□-AU	68	100 kHz,1 V	7.0	210	0.60	0.77	20	680
SLFA0745T-101□-AU	100	100 kHz,1 V	6.0	300	0.50	0.65	20	101
SLFA0745T-151□-AU	150	100 kHz,1 V	4.0	408	0.40	0.55	20	151
SLFA0745T-221□-AU	220	100 kHz,1 V	3.5	624	0.33	0.45	20	221
SLFA0745T-331□-AU	330	100 kHz,1 V	3.0	880	0.25	0.37	20	331
SLFA0745T-471□-AU	470	100 kHz,1 V	2.5	1260	0.22	0.31	20	471
SLFA0745T-681□-AU	680	100 kHz,1 V	2.1	1770	0.20	0.27	20	681
SLFA0745T-102□-AU	1000	100 kHz,1 V	1.1	2730	0.14	0.25	20	102

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

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. Irms for a 20°C temprature rise from 25°C ambient.
4. Measure Equipment:

L: WK6500B+WK6565  
RDC: Chroma 16502  
Isat: WK3260B+WK3265B

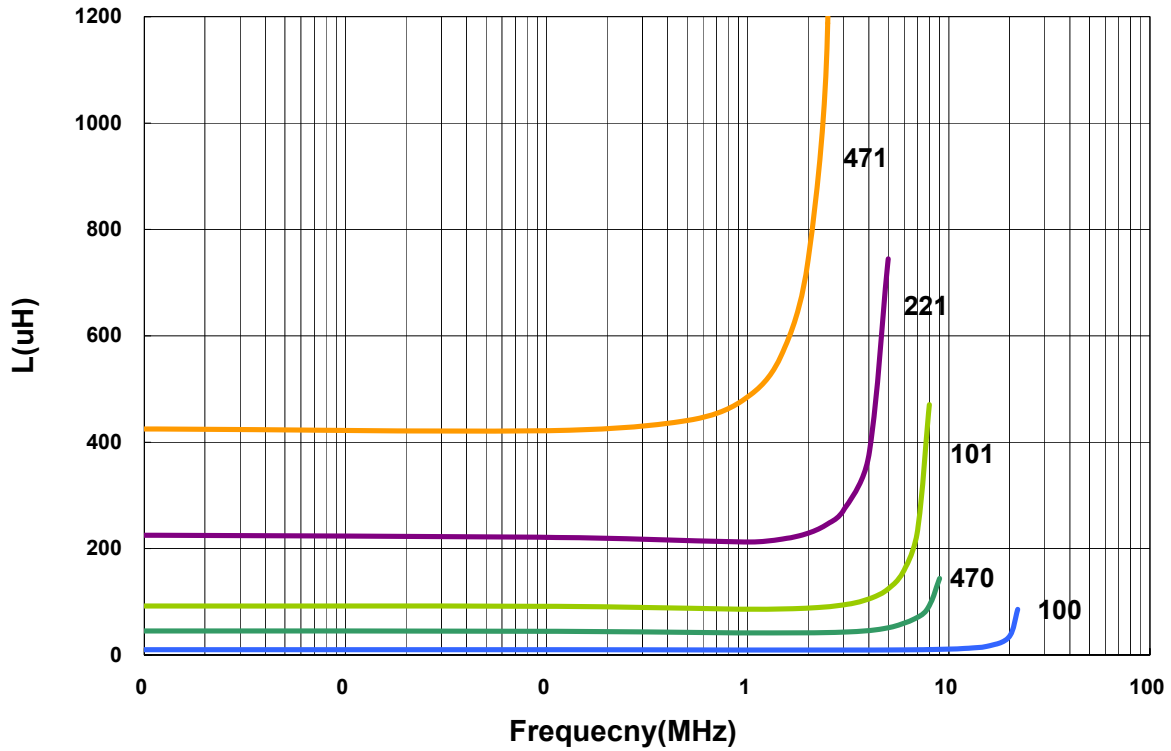
**Power Inductor SLFA Series**

**Automotive  
AEC-Q200**

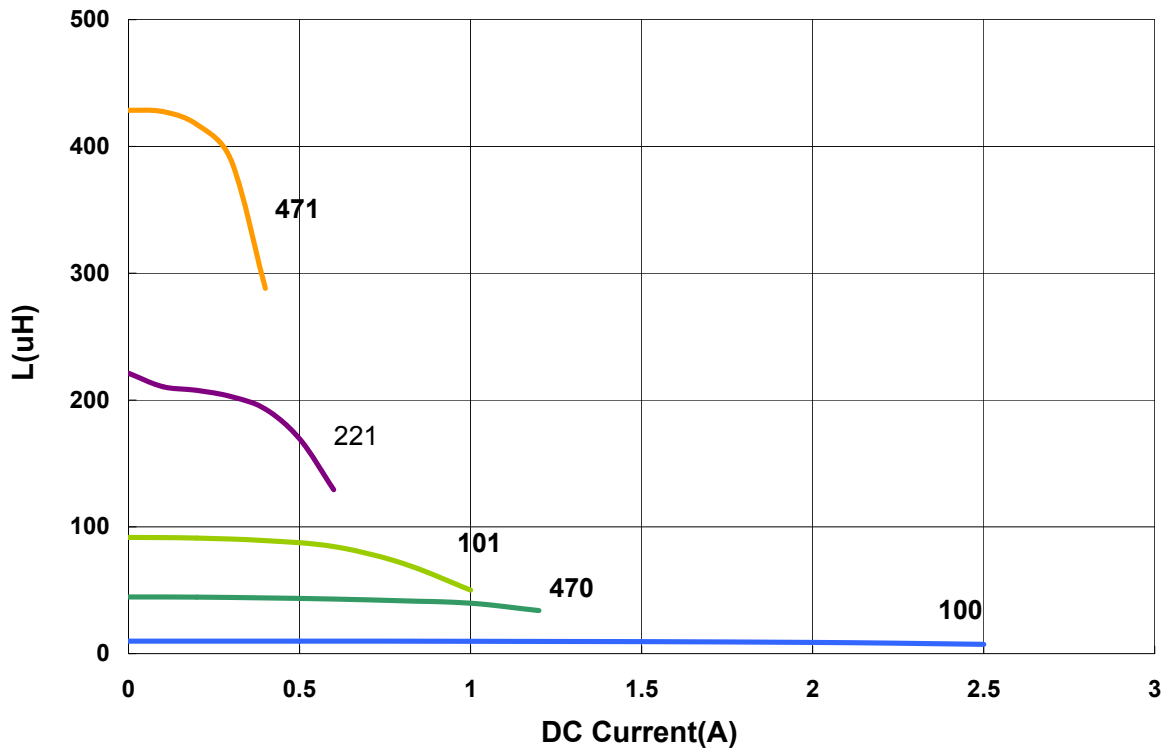
**SLFA0745 - AU Type**

**■ Characteristics Graph**

**Inductance vs. Frequency Charateristics**



**Inductance vs. DC Current**



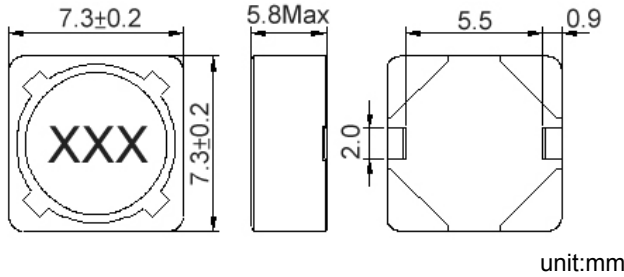
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**Power Inductor SLFA Series**

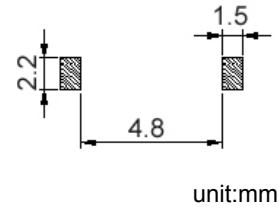
**Automotive  
AEC-Q200**

**SLFA0755 - AU Type**

**■ Dimensions**



**■ Recommended Land Pattern**



**■ Electrical Characteristics**

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
SLFA0755T-1R5□-AU	1.5	100 kHz,1 V	75	20	6.2	4.0	30	1R5
SLFA0755T-2R2□-AU	2.2	100 kHz,1 V	55	23	5.3	3.5	30	2R2
SLFA0755T-3R3□-AU	3.3	100 kHz,1 V	48	31	4.3	3.3	30	3R3
SLFA0755T-4R7□-AU	4.7	100 kHz,1 V	38	36	3.6	3.1	30	4R7
SLFA0755T-6R8□-AU	6.8	100 kHz,1 V	35	44	3.0	2.8	30	6R8
SLFA0755T-100□-AU	10	100 kHz,1 V	22	46	2.6	2.5	20	100
SLFA0755T-150□-AU	15	100 kHz,1 V	14	60.9	2.1	2.2	20	150
SLFA0755T-220□-AU	22	100 kHz,1 V	8	77	1.7	2.0	20	220

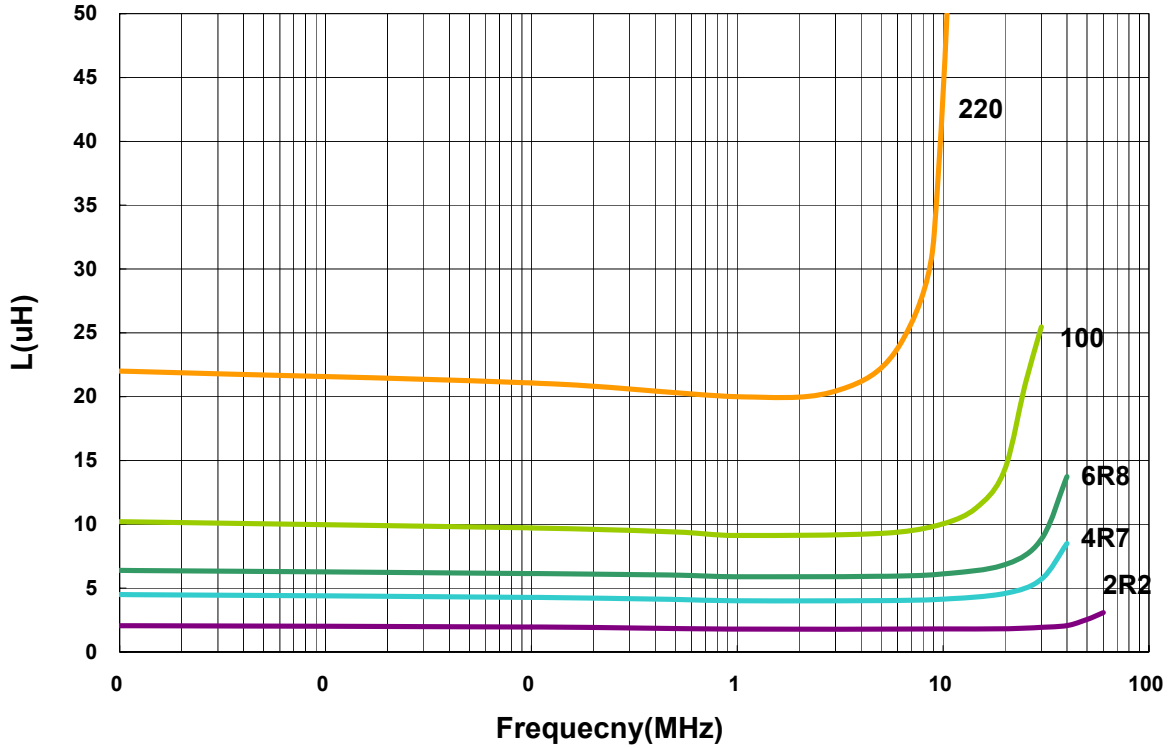
**Note: When ordering, please specify tolerance code. Tolerance: M=±20% / T=±30%**

1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 10% from its value without current.
3. I rms for a 30°C temprature rise from 25°C ambient.
4. Measure Equipment:  
 L: WK6500B+WK6565  
 RDC: Chroma 16502  
 Isat: WK3260B+WK3265B

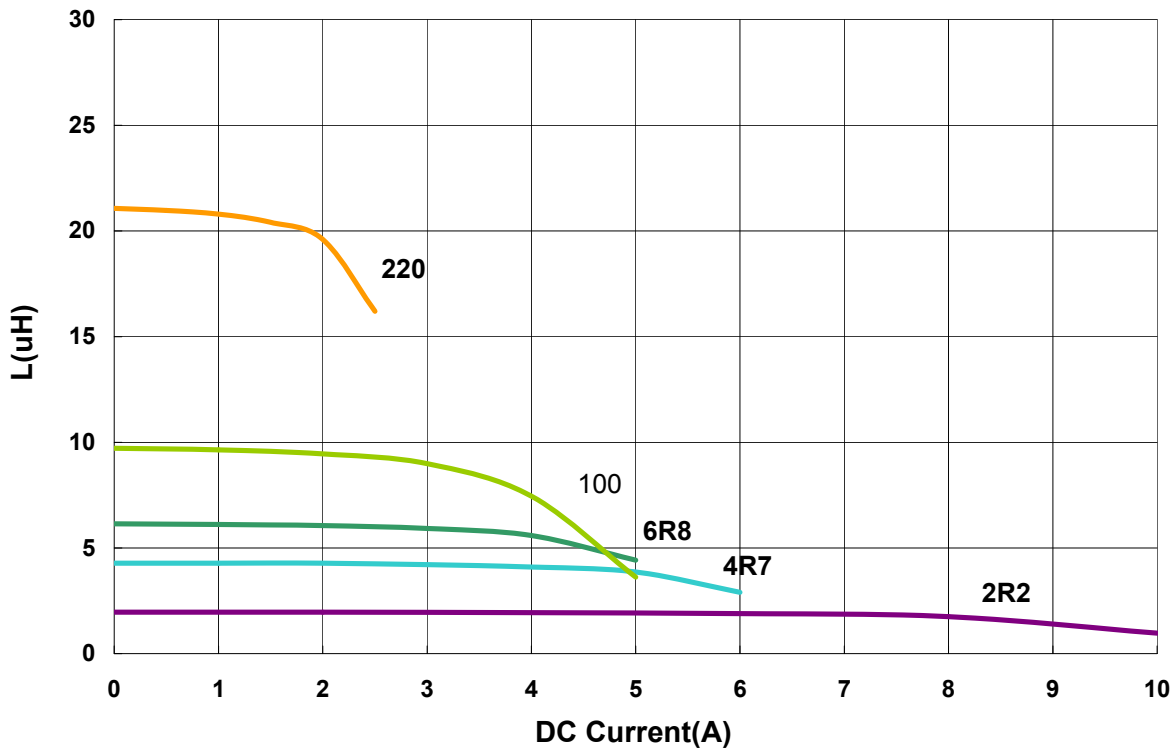
SLFA0755 - AU Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



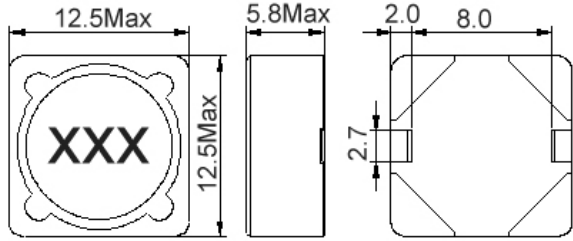
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**Power Inductor SLFA Series**

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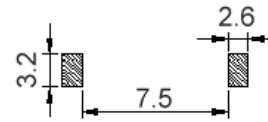
**SLFA1255 - AU Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
SLFA1255T-6R0□-AU	6.0	1 kHz,1 V	26	19.7	3.6	4.9	30	6R0
SLFA1255T-100□-AU	10	1 kHz,1 V	17	25.8	3.4	4.3	20	100
SLFA1255T-150□-AU	15	1 kHz,1 V	15	31.0	2.8	3.9	20	150
SLFA1255T-220□-AU	22	1 kHz,1 V	11	40.6	2.3	3.4	20	220
SLFA1255T-330□-AU	33	1 kHz,1 V	10	49.8	1.9	3.1	20	330
SLFA1255T-470□-AU	47	1 kHz,1 V	8	74.2	1.6	2.5	20	470
SLFA1255T-680□-AU	68	1 kHz,1 V	7	99.8	1.3	2.2	20	680
SLFA1255T-101□-AU	100	1 kHz,1 V	5.5	140	1.1	1.8	20	101
SLFA1255T-151□-AU	150	1 kHz,1 V	4.5	228	0.88	1.4	20	151
SLFA1255T-221□-AU	220	1 kHz,1 V	3.0	324	0.72	1.2	20	221
SLFA1255T-331□-AU	330	1 kHz,1 V	3.0	492	0.59	1.0	20	331
SLFA1255T-471□-AU	470	1 kHz,1 V	2.5	624	0.49	0.88	20	471
SLFA1255T-681□-AU	680	1 kHz,1 V	2.0	912	0.43	0.73	20	681
SLFA1255T-102□-AU	1000	1 kHz,1 V	1.7	1344	0.34	0.60	20	102
SLFA1255T-152□-AU	1500	1 kHz,1 V	1.4	2076	0.29	0.48	20	152

**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 10% from its value without current.
3. Irms for a 30°C temperature rise from 25°C ambient.

4. Measure Equipment:

- L: WK6500B+WK6565
- RDC: Chroma 16502
- Isat: WK3260B+WK3265B

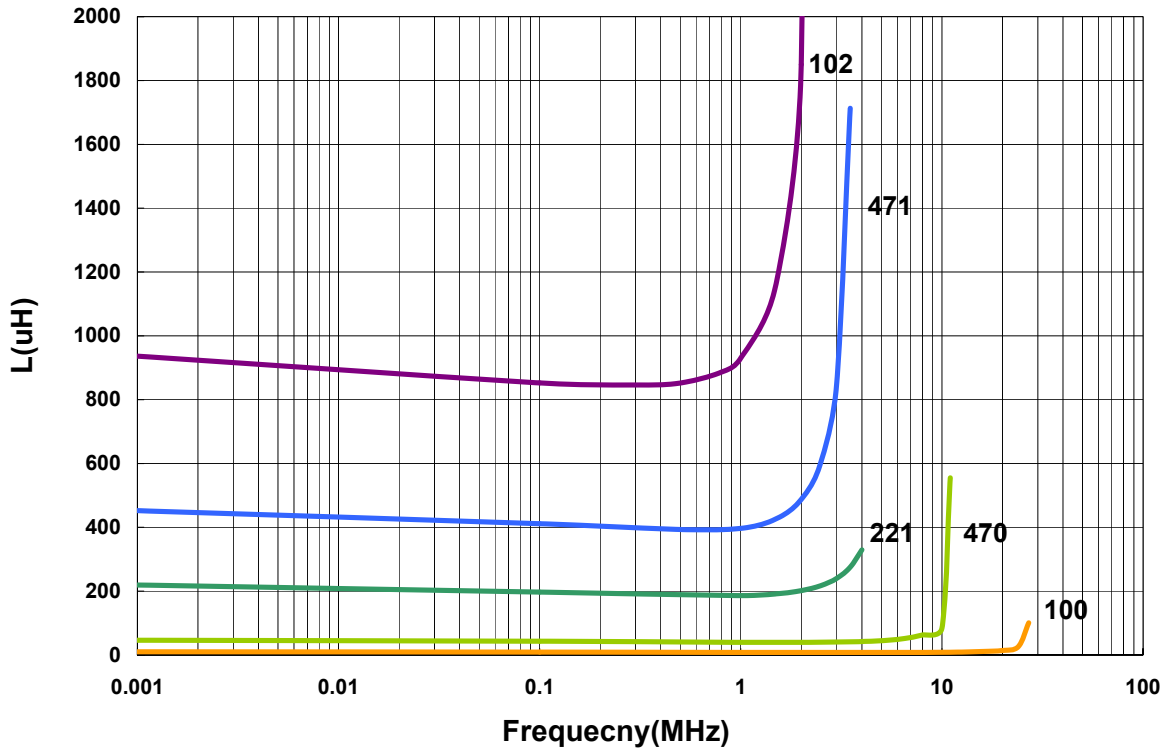
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**Automotive  
AEC-Q200**

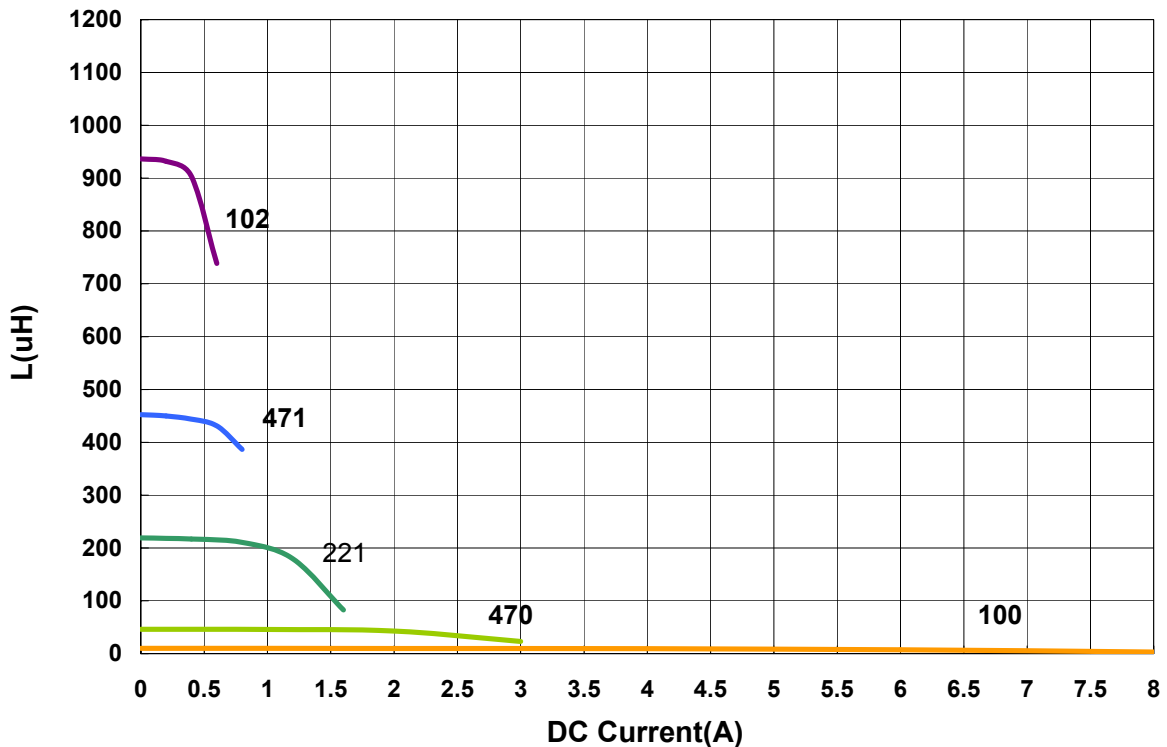
**SLFA1255 - AU Type**

**Characteristics Graph**

**Inductance vs. Frequency Charateristics**



**Inductance vs. DC Current**



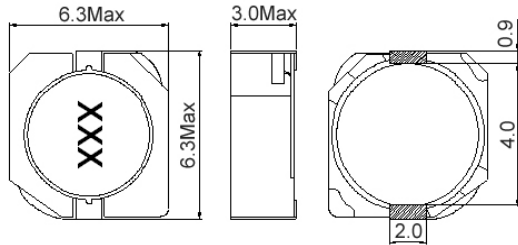
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**Power Inductor SLFA Series**

**Automotive  
AEC-Q200**

**SLFA5D28 - AU Type**

**■ Dimensions**



unit:mm

**■ Recommended Land Pattern**



unit:mm

**■ Electrical Characteristics**

Part No.	Inductance (uH)	Test Freq.	SRF (MHz)Min	RDC (mΩ)Max.	Isat (A)	Irms (A)	Tolerance (±%)	Marking
SLFA5D28T-6R8□-AU	6.8	100 kHz,1 V	35	42	1.50	2.20	20	6R8
SLFA5D28T-100□-AU	10	100 kHz,1 V	20	63.8	1.30	1.80	20	100
SLFA5D28T-150□-AU	15	100 kHz,1 V	15	89.4	1.00	1.40	20	150
SLFA5D28T-220□-AU	22	100 kHz,1 V	10	124	0.77	1.30	20	220
SLFA5D28T-330□-AU	33	100 kHz,1 V	7	177	0.69	1.10	20	330
SLFA5D28T-470□-AU	47	100 kHz,1 V	5	252	0.59	0.92	20	470
SLFA5D28T-680□-AU	68	100 kHz,1 V	4	348	0.50	0.78	20	680
SLFA5D28T-101□-AU	100	100 kHz,1 V	4	516	0.42	0.64	20	101
SLFA5D28T-151□-AU	150	100 kHz,1 V	4	780	0.34	0.50	20	151
SLFA5D28T-221□-AU	220	100 kHz,1 V	3.2	1170	0.26	0.38	20	221

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

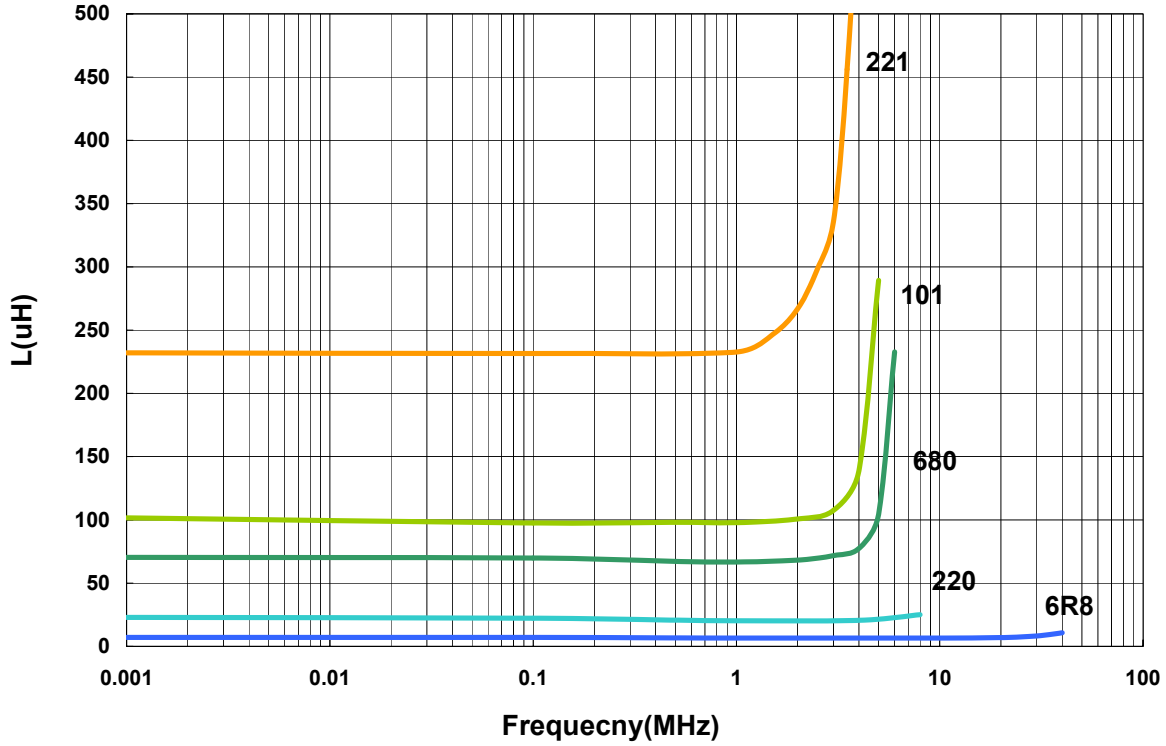
1. Operating temperature range - 40°C ~ 125°C(Including self - temperature rise)
2. Isat for Inductance drop 30% from its value without current.
3. Irms for a 25°C temperature rise from 25°C ambient.
4. Measure Equipment:  
 L: WK6500B+WK6565  
 RDC: Chroma 16502  
 Isat: WK3260B+WK3265B



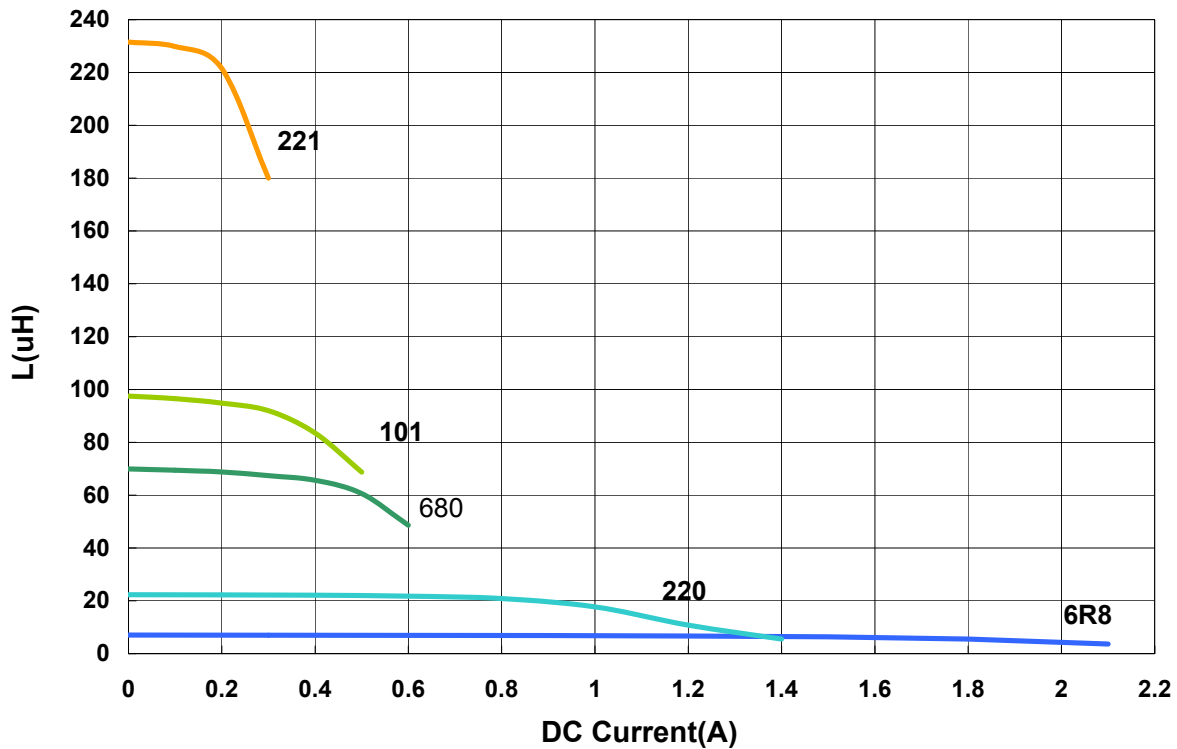
SCDS5D28 - AU Type

■ Characteristics Graph

Inductance vs. Frequency Charateristics



Inductance vs. DC Current



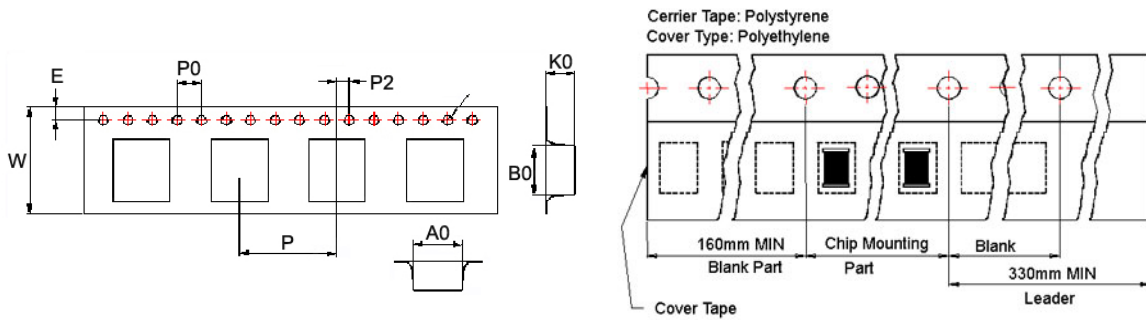
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**Power Inductor SLFA Series**

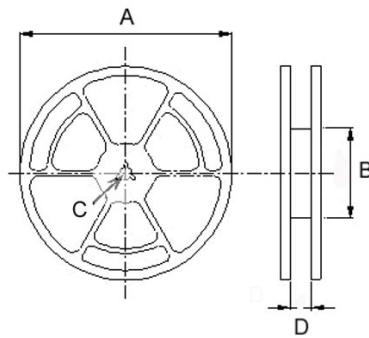
**Automotive  
AEC-Q200**

**■ Packaging**

Tape Dimensions



Reel Dimensions



Dimensions in mm

TYPE	Tape Dimensions									Reel Dimensions				Quantity PCS / REEL
	A0	B0	K0	D	E	W	P	P0	P2	A	B	C	D	
SLFA 0745	7.6	7.6	5.2	1.55	1.75	16	12	4	2	330	100	13	16.0	1000
SLFA 0755	7.8	7.8	6.0	1.55	1.75	16	12	4	2	330	100	13	16.0	900
SLFA 1255	12.6	12.6	6.7	1.55	1.75	24	16	4	2	330	100	13	24.2	600
SLFA 5D28	6.3	6.55	3.3	1.55	1.75	16	12	4	2	330	100	13	16.0	1000