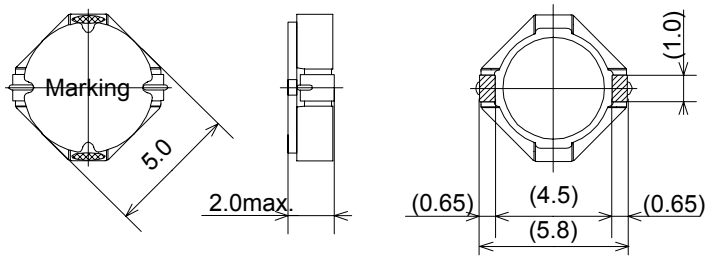
Power Inductors for Surface Mounting

TYPE : 7E05LA/LB

Frequency Range:~2MHz
Inductance Range:1.8~100μH
Temperature Coefficient:±10%max.

Fixed



■Features

SMD magnetic shielded type of power inductor
As power supply choke coil for small electrical equipments
Available in 2 types of electronic characteristics
LA:Low DC Resistance
LB:Regular

■Specifications

Inductance		DC Resistance (mΩ) ±30%		Rated DC Current (mA)		Allowable DC Current (mA)	
Code	(μH)	7E05LA	7E05LB	7E05LA	7E05LB	7E05LA	7E05LB
1R8	1.8	0.017	0.022	1400	2000	2500	2200
2R4	2.4	0.023	0.030	1180	1780	2200	2000
3R3	3.3	0.030	0.040	1050	1550	2000	1800
3R9	3.9	0.035	0.045	950	1460	1820	1680
4R7	4.7	0.039	0.060	860	1350	1750	1470
5R6	5.6	0.050	0.068	800	1180	1520	1380
6R8	6.8	0.055	0.075	700	1030	1460	1300
8R2	8.2	0.060	0.098	680	980	1400	1160
100	10	0.077	0.105	630	860	1200	1100
120	12	0.090	0.120	540	810	1100	960
150	15	0.120	0.160	470	720	950	880
180	18	0.140	0.190	440	680	880	820
220	22	0.170	0.210	400	600	800	780
270	27	0.210	0.310	370	550	730	640
330	33	0.240	0.340	330	480	680	600
390	39	0.330	0.450	310	450	580	520
470	47	0.390	0.500	270	410	540	480
560	56	0.420	0.630	240	380	510	450
680	68	0.540	0.750	220	340	460	420
820	82	0.610	0.840	200	310	420	400
101	100	0.780	0.900	190	270	390	380

Notes: 1. Measurement Frequency for Inductance: 100kHz(<10μH)
1kHz(=>10μH)
2. Rated DC Current: Inductance drift is within -35% from the nominal value at the superposition.
3. Allowable DC Current: See Table for Value of Temperature Rise.

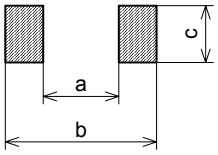
Inductance range

Tolerance	7E05LA	7E05LB
±30%(N)	1.8～8.2μH	
±20%(M)	10～100μH	

Temperature rise

7E05LA	7E05LB
+40℃ max.	

Recommended Land Pattern



Type	a	b	c
7E05LA/LB	3.8	6.2	1.5

Parts code

7E05LA	—	100	M
Type		Inductance code	Tolerance

SAGAMI ELEC CO., LTD.

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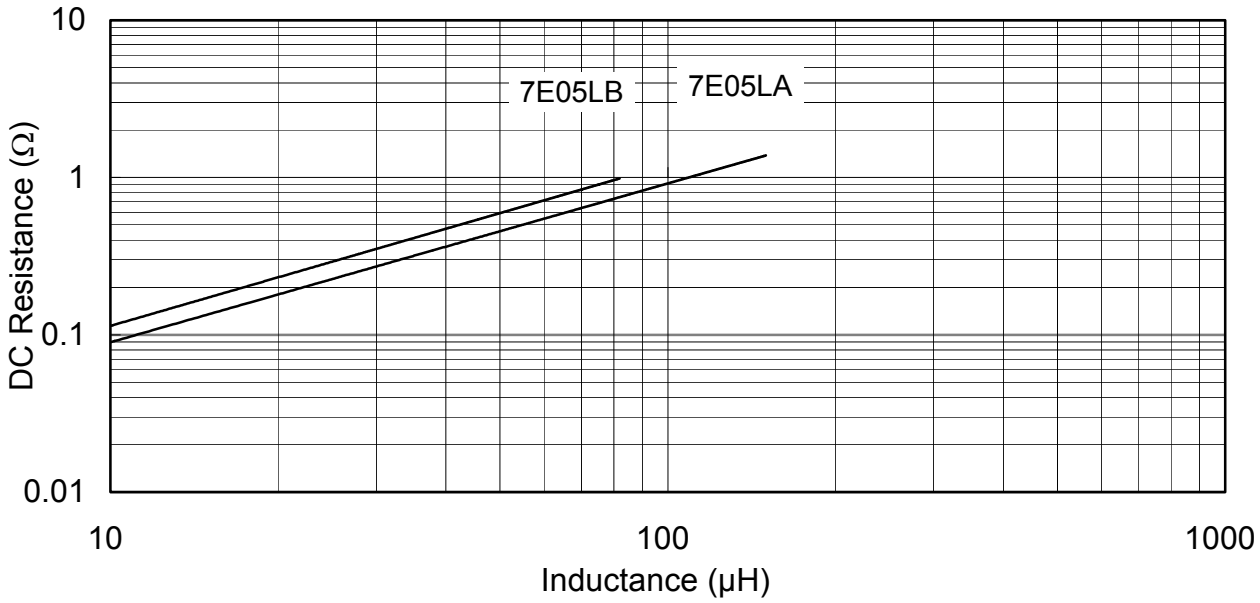
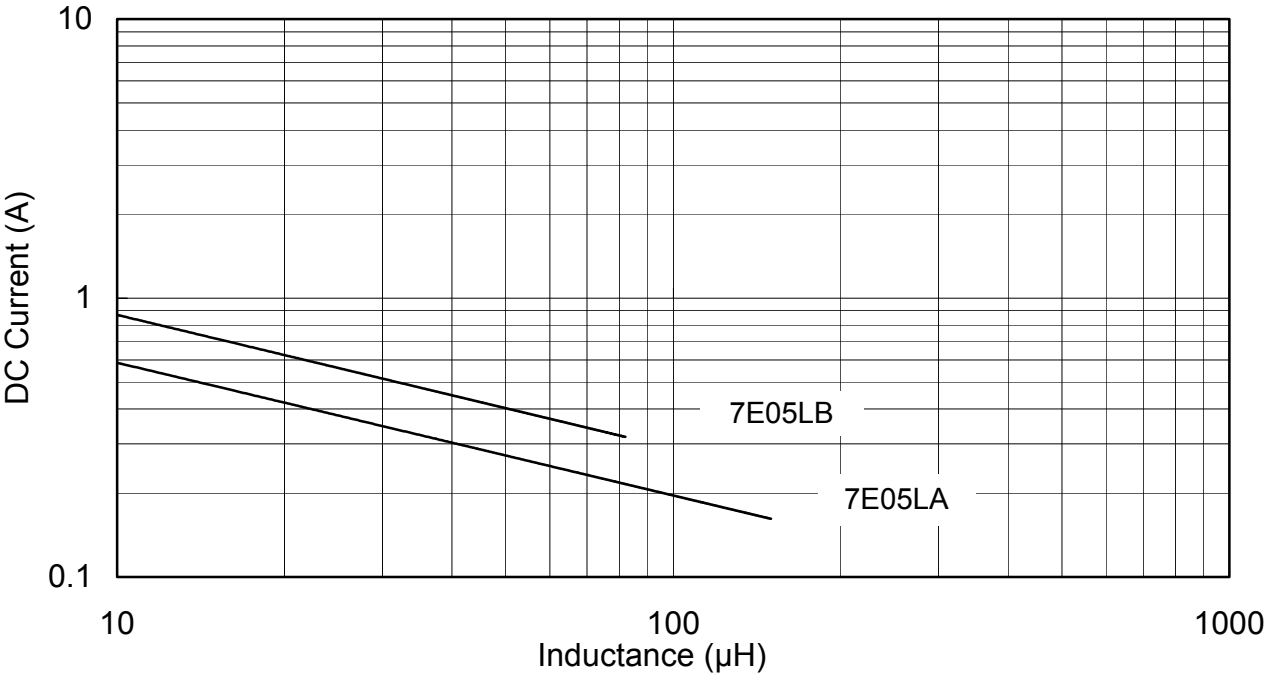
Chip Inductors for Surface Mounting

Type 7E05LA/LB Series
Electric Characteristics

Characteristics of DC Resistance



Characteristics of DC Superposition



Notes: 1. Graphs are based on typical values of each type, not spec. values.
2. DC current value is being measured at 35% decrease of inductance.

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