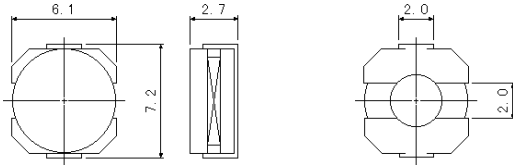


Power Inductors for Surface Mounting

■7A06L



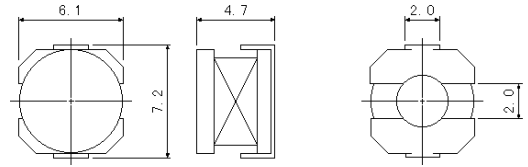
Frequency Range:~1MHz
Inductance Range:10~1000μH
Temperature Coefficient:±10%max.



■7A06N



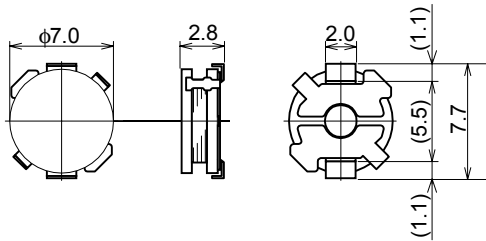
Frequency Range:~1MHz
Inductance Range:10~1000μH
Temperature Coefficient:±10%max.



■7A07N



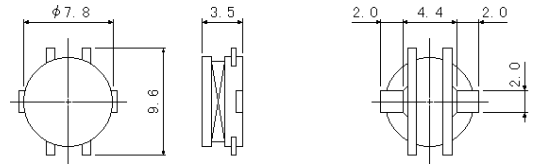
Frequency Range:~1MHz
Inductance Range:10~560μH
Temperature Coefficient:±10%max.



■7A08L



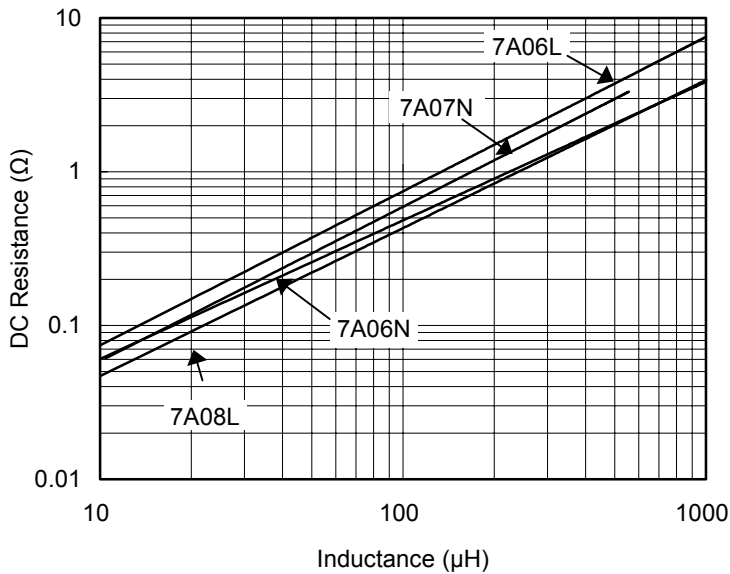
Frequency Range:~1MHz
Inductance Range:10~1000μH
Temperature Coefficient:±10%max.



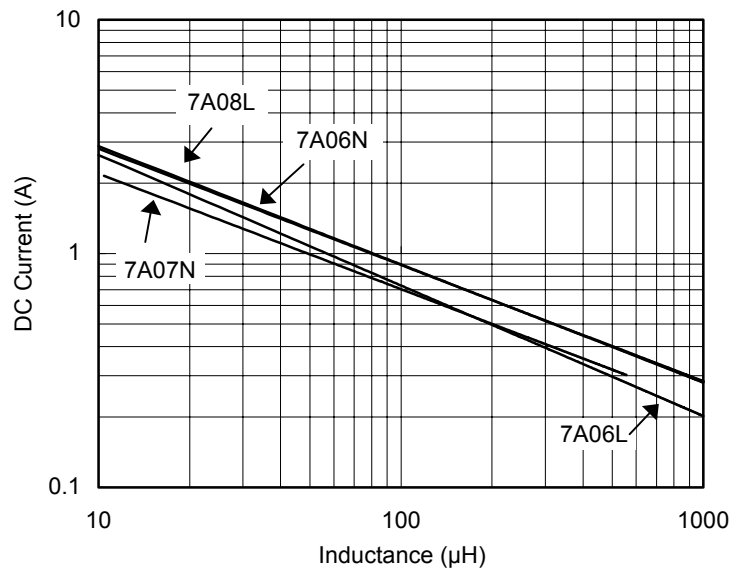
Features

SMD magnetically unshielded type of power inductor
Suitable as power supply choke coil

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 10% decrease of inductance.

Power Inductors for Surface Mounting

Coil Selection Guide

Inductance		DC Resistance (Ω) max. - typical								Rated DC Current (mA)				Allowable DC Current (mA)			
Code	(μH)	7A06L		7A06N		7A07N		7A08L		7A06L	7A06N	7A07N	7A08L	7A06L	7A06N	7A07N	7A08L
100	10	0.096	0.072	0.084	0.063	0.09	0.064	0.068	0.051	1600	2000	1650	1800	1200	1300	1600	1600
120	12	0.11	0.079	0.092	0.069	0.11	0.077	0.068	0.058	1500	1800	1600	1600	1000	1200	1500	1500
150	15	0.16	0.118	0.11	0.078	0.12	0.087	0.096	0.072	1300	1600	1350	1400	940	1150	1300	1300
180	18	0.18	0.132	0.12	0.088	0.15	0.107	0.13	0.092	1200	1400	1300	1300	880	1100	1200	1200
220	22	0.26	0.189	0.14	0.102	0.18	0.133	0.14	0.103	1100	1200	1100	1200	740	1000	1100	1100
270	27	0.28	0.210	0.16	0.116	0.21	0.153	0.16	0.117	980	1100	1000	1100	700	930	1000	1050
330	33	0.32	0.234	0.18	0.130	0.27	0.196	0.19	0.137	880	1050	900	1000	660	880	900	990
390	39	0.36	0.267	0.23	1.660	0.30	0.222	0.23	0.170	800	980	800	930	610	770	800	880
470	47	0.46	0.345	0.26	0.193	0.35	0.259	0.27	0.202	750	910	750	840	550	740	750	780
560	56	0.52	0.389	0.31	0.228	0.44	0.323	0.31	0.229	680	810	700	760	510	690	700	740
680	68	0.72	0.536	0.41	0.302	0.58	0.427	0.39	0.288	610	760	650	720	440	600	600	650
820	82	0.81	0.600	0.46	0.344	0.63	0.469	0.44	0.330	560	670	600	640	410	560	550	580
101	100	1.20	0.832	0.62	0.461	0.76	0.566	0.58	0.436	510	620	550	580	350	490	500	510
21	120	1.30	0.943	0.69	0.517	0.91	0.682	0.68	0.505	470	560	500	520	320	460	450	470
151	150	1.50	1.105	0.94	0.694	1.20	0.883	0.80	0.596	410	600	450	460	300	380	420	400
181	180	1.70	1.239	1.10	0.780	1.30	0.970	1.10	0.768	370	460	400	430	280	360	400	360
221	220	2.60	1.834	1.50	1.086	1.90	1.411	1.30	0.908	350	420	350	370	240	290	330	330
271	270	2.90	2.171	1.70	1.244	2.30	1.659	1.60	1.191	310	370	320	350	220	280	300	290
331	330	3.40	2.515	1.90	1.417	2.60	1.954	1.90	1.399	280	340	300	310	200	270	280	270
391	390	3.80	2.852	2.50	1.616	3.40	2.526	2.20	1.612	250	300	260	280	180	250	250	250
471	470	5.40	3.948	3.00	2.203	4.00	2.986	2.70	2.023	230	280	240	270	160	210	220	220
561	560	6.00	4.480	3.40	1.563	4.50	3.373	3.20	2.367	210	250	220	240	150	190	210	200
681	680	6.80	5.085	3.80	2.789			3.70	2.747	190	230		210	140	180		180
821	820	7.80	5.777	4.30	3.189			4.30	3.171	170	210		190	130	170		170
102	1000	9.00	6.653	6.20	4.605			4.50	4.342	150	190		180	120	150		160

- Notes: 1. Measurement Frequency for Inductance: 1kHz.
 2. Rated DC Current: Value of inductance decrease within 10%.
 3. Allowable DC Current: See Table below for Value of Temperature Rise.

Parts Code

7A06L	—	101	K
Type		Inductance Code	Tolerance

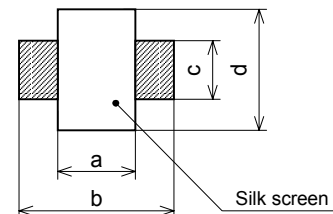
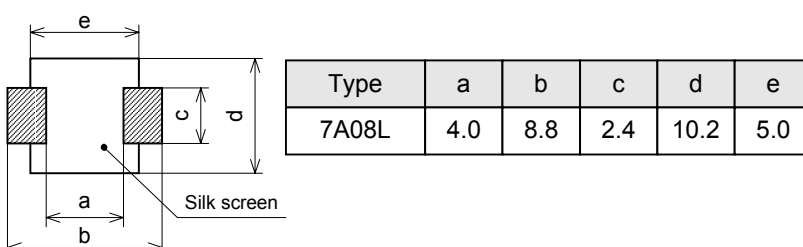
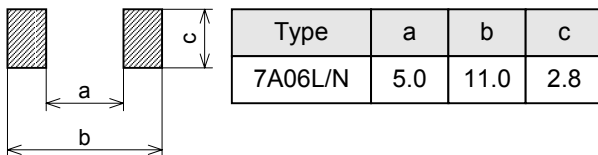
Inductance range

Tolerance	7A06L	7A06N	7A07N	7A08L
±20%(M)	10μH>			-
±15%(L)	-		10~12μH	-
±10%(K)	12~1000μH		15~560μH	10~1000μH

Temperature rise

7A06L	7A06N	7A07N	7A08L
+20°Cmax.		+20°Ctyp.	+20°Cmax.

Recommended Land Pattern



Type	a	b	c	d
7A07N	4.5	8.5	3.0	8.0