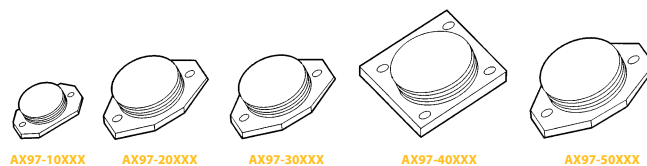
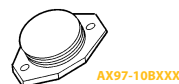


# SMD Power Inductor Selection Guide

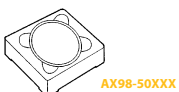
Model	Size (mm, max)	Inductance	Current Rating
AX97-10XXX	7.50 x 4.78 x 3.23	1.0 - 470µH	2.9 - 0.12A
AX97-20XXX	13.46 x 9.40 x 3.50	10 - 1000µH	2.0 - 0.05A
AX97-30XXX	13.46 x 9.40 x 5.90	1.0 - 1000µH	8.50 - 0.30A
AX97-40XXX	16.10 x 15.80 x 7.21	3.3 - 1000µH	9.80 - 0.65A
AX97-50XXX	18.95 x 15.24 x 7.21	0.78 - 1000µH	16.0 - 0.56A



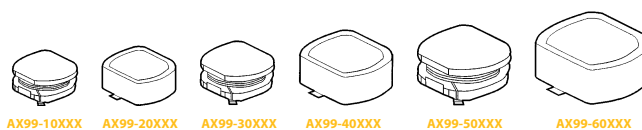
Model	Size (mm, max)	Inductance	Current Rating
AX97-10BXXX	7.30 x 4.78 x 2.92	1.0 - 1000µH	2.9 - 0.10A



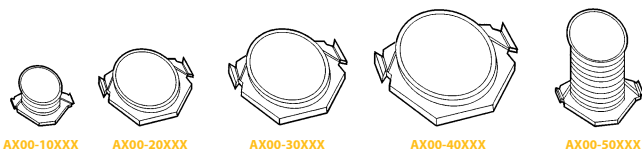
Model	Size (mm, max)	Inductance	Current Rating
AX98-50XXX	12.5 x 12.5 x 6.2	1.0 - 1000µH	9.5 - 0.4A



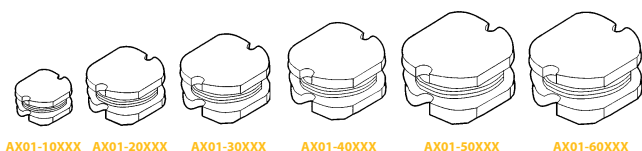
Model	Size (mm, max)	Inductance	Current Rating
AX99-10XXX	5.80 x 5.20 x 4.70	10 - 270uH	1.60 - 0.36A
AX99-20XXX	7.80 x 7.00 x 4.70	10 - 270uH	1.60 - 0.36A
AX99-30XXX	7.80 x 7.00 x 4.70	10 - 470uH	2.40 - 0.35A
AX99-40XXX	10.00 x 9.00 x 5.00	10 - 470uH	2.50 - 0.37A
AX99-50XXX	10.00 x 9.00 x 4.70	10 - 1500uH	3.00 - 0.28A
AX99-60XXX	12.60 x 11.60 x 5.00	10 - 1500uH	2.50 - 0.30A



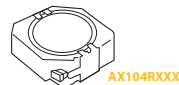
Model	Size (mm, max)	Inductance	Current Rating
AX00-10XXX	8.89 x 6.09 x 5.50	0.47 - 48.5µH	6.0 - 0.72A
AX00-20XXX	13.46 x 10.03 x 6.60	0.33 - 103µH	16 - 1.2A
AX00-30XXX	19.50 x 13.21 x 7.50	0.47 - 101.4µH	16 - 1.4A
AX00-40XXX	21.97 x 15.24 x 8.00	0.47 - 103µH	19.2 - 2.0A
AX00-50XXX	13.46 x 10.03 x 12.70	0.78 - 100µH	15 - 1.2A



Model	Size (mm, max)	Inductance	Current Rating
AX01-10XXX	4.50 x 4.00 x 3.20	1.0 - 33µH	3.80 - 0.56A
AX01-20XXX	5.80 x 5.20 x 4.50	10.0 - 220µH	2.0 - 0.35A
AX01-30XXX	7.80 x 7.00 x 3.50	10.0 - 9000µH	1.44 - 0.05A
AX01-40XXX	7.80 x 7.00 x 5.00	10.0 - 470µH	2.30 - 0.34A
AX01-50XXX	10.00 x 9.00 x 4.00	10.0 - 560µH	2.38 - 0.32A
AX01-60XXX	10.00 x 9.00 x 5.40	10 - 820µH	2.6 - 0.24A



Model	Size (mm, max)	Inductance	Current Rating
AX104RXXX	10.30 x 10.30 x 4.00	1.5 - 330µH	6.5 - 0.7A



Model	Size (mm, max)	Inductance	Current Rating
AX02-30XXX	13.3 x 15.0 x 6.50	0.5 - 6.4µH	40 - 16A



Model	Size (mm, max)	Inductance	Current Rating
AXFS05-40XXX	10.4 x 10.4 x 4.1	0.22 - 4.7µH	5.5 - 25A

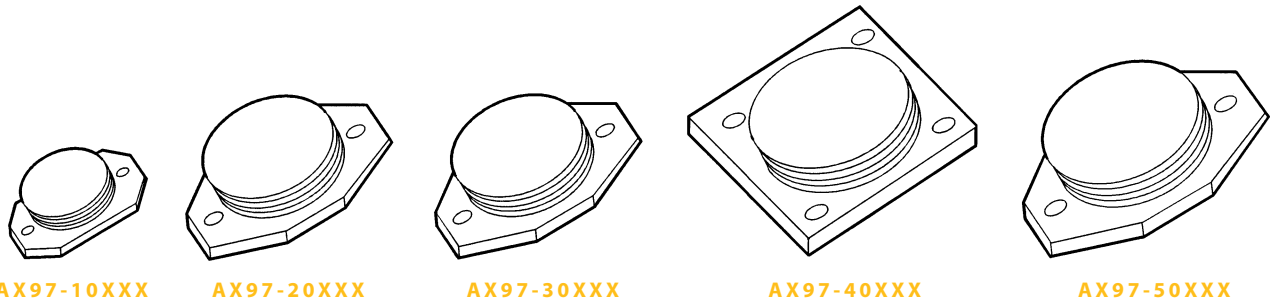


Model	Size (mm, max)	Inductance	Current Rating
AXFS06-50R10	6.5 x 6.5 x 5.0	100nH	46A



# SMD Power Inductors

## AX97 Series SMD Power Inductors



### :: Description

Slim type  
 Low resistance  
 Excellent DC current characteristics

### :: Applications

Laptop and notebook computers and PDAs  
 DC/DC converters  
 Portable communication equipment  
 Inductor for general purpose use

### :: AX97B Series SMD Power Shielded Inductors

Part No.	A	B	C	D	E	F	Figure
AX97-10XXX	0.295 7.30	0.188 4.78	0.127 3.23	0.218 5.54	0.059 1.50	0.100 2.54	1
AX97-20XXX	0.530 13.46	0.370 9.40	0.137 3.50	0.404 10.26	0.120 3.05	0.135 3.43	1
AX97-30XXX	0.530 13.46	0.370 9.40	0.232 5.90	0.404 10.26	0.120 3.05	0.135 3.43	1
AX97-40XXX	0.634 16.10	0.622 15.80	0.284 7.21	0.520 13.21	0.157 4.00	0.157 4.00	2
AX97-50XXX	0.746 18.95	0.600 15.24	0.284 7.21	0.595 15.11	0.145 3.68	0.135 3.43	1

### :: Outline Dimensions

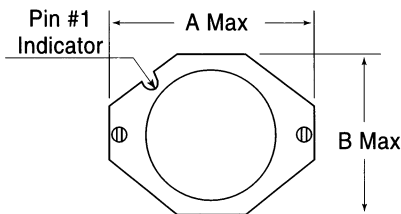
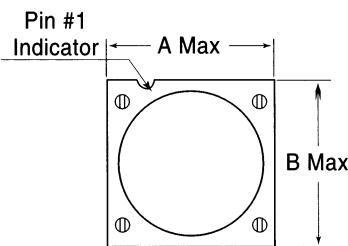
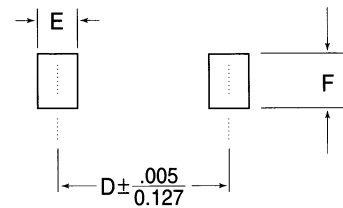
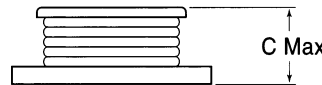
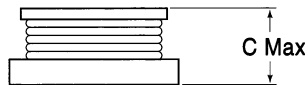


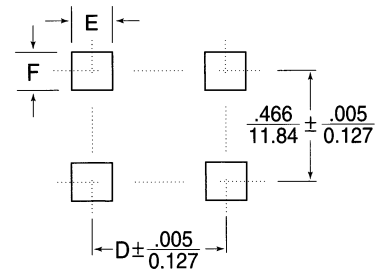
Figure 1



Top View



Side View



Recommended Solder Pad Layout

Figure 2

## :: AX97 Series SMD Power Inductors

Part Number	Inductance ( $\mu\text{H}\pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max <sup>(3)</sup>	Rated Current (Amp) <sup>(2)</sup>	Figure
AX97-101R0	1.0	0.030	2.90	1
AX97-101R5	1.5	0.050	2.80	1
AX97-102R2	2.2	0.060	2.40	1
AX97-103R3	3.3	0.090	2.00	1
AX97-104R7	4.7	0.120	1.50	1
AX97-106R8	6.8	0.170	1.30	1
AX97-10100	10.0	0.220	1.00	1
AX97-10150	15.0	0.300	0.80	1
AX97-10220	22.0	0.430	0.70	1
AX97-10330	33.0	0.690	0.57	1
AX97-10470	47.0	0.920	0.46	1
AX97-10680	68.0	1.390	0.37	1
AX97-10101	100.0	1.980	0.28	1
AX97-10151	150.0	3.080	0.22	1
1X97-10221	220.0	4.470	0.18	1
AX97-10331	330.0	6.900	0.15	1
AX97-10471	470.0	11.550	0.12	1
AX97-20100	10.0	0.070	2.00	1
AX97-20150	15.0	0.090	1.50	1
AX97-20220	22.0	0.150	1.30	1
AX97-20330	33.0	0.210	1.10	1
AX97-20470	47.0	0.310	0.80	1
AX97-20680	68.0	0.420	0.70	1
AX97-20101	100.0	0.580	0.60	1
AX97-20151	150.0	0.890	0.50	1
AX97-20221	220.0	1.300	0.40	1
AX97-20331	330.0	2.000	0.30	1
AX98-20471	470.0	2.500	0.20	1
AX97-20681	680.0	3.500	0.10	1
AX97-20102	1000.0	6.000	0.05	1
AX97-301R0	1.0	0.010	8.50	1
AX97-301R5	1.5	0.010	7.90	1
AX97-302R2	2.2	0.020	7.40	1
AX97-303R3	3.3	0.020	6.60	1
AX97-304R7	4.7	0.020	6.00	1
AX98-306R8	6.8	0.030	5.20	1
AX97-308R2	8.2	0.030	5.00	1
AX97-30100	10.0	0.040	4.60	1
AX97-30150	15.0	0.050	3.70	1
AX97-30220	22.0	0.070	3.10	1
AX97-30330	33.0	0.110	2.50	1
AX97-30470	47.0	0.160	2.00	1
AX97-30680	68.0	0.200	1.80	1
AX97-30820	82.0	0.240	1.58	1

Part Number	Inductance ( $\mu\text{H}\pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max <sup>(3)</sup>	Rated Current (Amp) <sup>(2)</sup>	Figure
AX97-30101	100.00	0.3000	1.50	1
AX97-30151	150.00	0.4400	1.20	1
AX97-30221	220.00	0.6400	1.00	1
AX97-30331	330.00	1.0000	0.80	1
AX97-30471	470.00	1.5000	0.50	1
AX97-30681	680.00	2.2000	0.40	1
AX97-30102	1000.00	3.1500	0.30	1
AX97-403R3	3.30	0.0100	9.80	2
AX97-404R7	4.70	0.0100	9.30	2
AX97-406R8	6.80	0.0200	7.70	2
AX97-408R2	8.20	0.0200	7.00	2
AX97-40100	10.00	0.0200	6.50	2
AX97-40150	15.00	0.0300	5.30	2
AX97-40220	22.00	0.0400	4.40	2
AX97-40330	33.00	0.0600	3.50	2
AX97-40470	47.00	0.0700	3.00	2
AX97-40680	68.00	0.1100	2.50	2
AX97-40820	82.00	0.1200	2.20	2
AX97-40101	100.00	0.1500	2.00	2
AX97-40151	150.00	0.2200	1.70	2
AX97-40221	220.00	0.3300	1.30	2
AX97-40331	330.00	0.4500	1.10	2
AX97-40471	470.00	0.7000	0.93	2
AX97-40681	680.00	1.0000	0.78	2
AX97-40102	1000.00	1.4500	0.65	2
AX97-50R78	0.78	0.0030	16.00	1
AX97-501R3	1.30	0.0043	14.00	1
AX97-502R0	2.00	0.0050	12.00	1
AX97-502R6	2.60	0.0060	10.00	1
AX97-503R3	3.30	0.0080	9.80	1
AX97-505R6	5.60	0.0100	7.50	1
AX97-50100	10.00	0.0230	6.00	1
AX97-50150	15.00	0.0350	4.50	1
AX97-50220	22.00	0.0450	4.00	1
AX97-50330	33.00	0.0750	3.00	1
AX97-50470	47.00	0.0960	2.60	1
AX97-50680	68.00	0.1400	2.30	1
AX97-50101	100.00	0.1900	1.70	1
AX97-50151	150.00	0.2900	1.50	1
AX97-50221	220.00	0.4100	1.20	1
AX97-50331	330.00	0.5400	1.00	1
AX97-50471	470.00	0.8000	0.83	1
AX97-50681	680.00	1.1500	0.72	1
AX97-50102	1000.00	1.8000	0.56	1

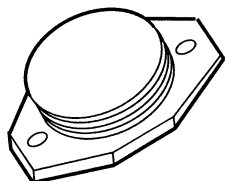
Notes: 1. Inductance measured at 100.0KHz, 0.1Vrms, without DC current.

2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

3. For AX97-40 Series, resistance measured with both windings conducted in parallel.

# SMD Power Inductors

## AX97B-10 Series SMD Power Inductors



### :: Description

Slim type  
Height: 2.92mm maximum  
Low resistance  
Excellent DC current characteristics

### :: Applications

Laptop and notebook computers and PDAs  
DC/DC converters  
Portable communication equipment  
Inductor for general purpose use

### :: AX97B-10 Series SMD Power Inductors

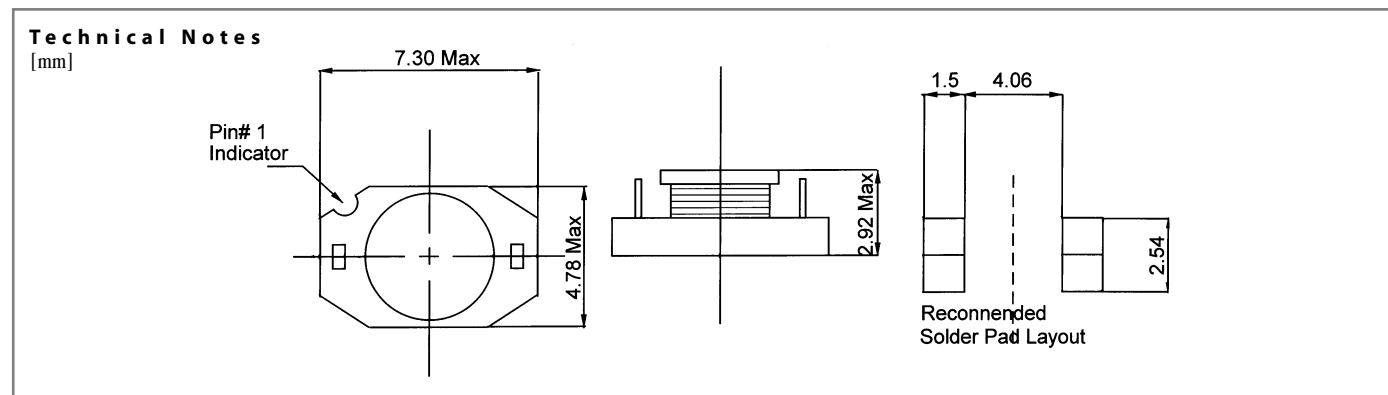
Part Number	Inductance ( $\mu\text{H} \pm 20\%$ )	DC Resistance $\Omega$ Max	Rated Current Amp <sup>(2)</sup>
AX97B-101R0	1.0	0.05	2.90
AX97B-101R5	1.5	0.05	2.60
AX97B-102R2	2.2	0.07	2.30
AX97B-103R3	3.3	0.08	2.00
AX97B-104R7	4.7	0.09	1.50
AX97B-106R8	6.8	0.13	1.20
AX97B-10100	10.0	0.16	1.10
AX97B-10250	15.0	0.23	0.90
AX97B-10220	22.0	0.37	0.70
AX97B-10330	33.0	0.51	0.58

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ )	DC Resistance $\Omega$ Max	Rated Current Amp <sup>(2)</sup>
AX97B-10470	47	0.64	0.50
AX97B-10680	68	0.86	0.40
AX97B-10101	100	1.27	0.31
AX97B-10151	150	2.00	0.27
AX97B-10221	220	3.11	0.22
AX97B-10331	330	3.80	0.18
AX97B-10471	470	5.06	0.16
AX97B-10681	680	9.20	0.14
AX97B-10103	1000	13.80	0.10

Notes: 1. Inductance measured at 100.0KHz, 0.1V RMS without DC current.

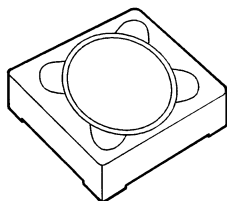
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

### :: Outline Dimensions



# SMD Power Inductors

## AX98 Series SMD Power Shielded Inductors



### :: Description

Slim type  
Self shielded  
Height: 6.20mm maximum  
Low resistance  
Excellent DC current characteristics

### :: Applications

Laptop and notebook computers and PDAs  
DC/DC converters  
Portable communication equipment  
Inductor for general purpose use

### :: AX98 Series SMD Power Shielded Inductors

Part No.	A	B	C	D	E	F	G	H	I
AX98-50XX	0.492 12.50	0.492 12.50	0.244 6.20	0.197 5.00	0.079 2.00	0.299 7.60	0.394 10.00	0.236 6.00	0.118 3.00

### :: Specifications

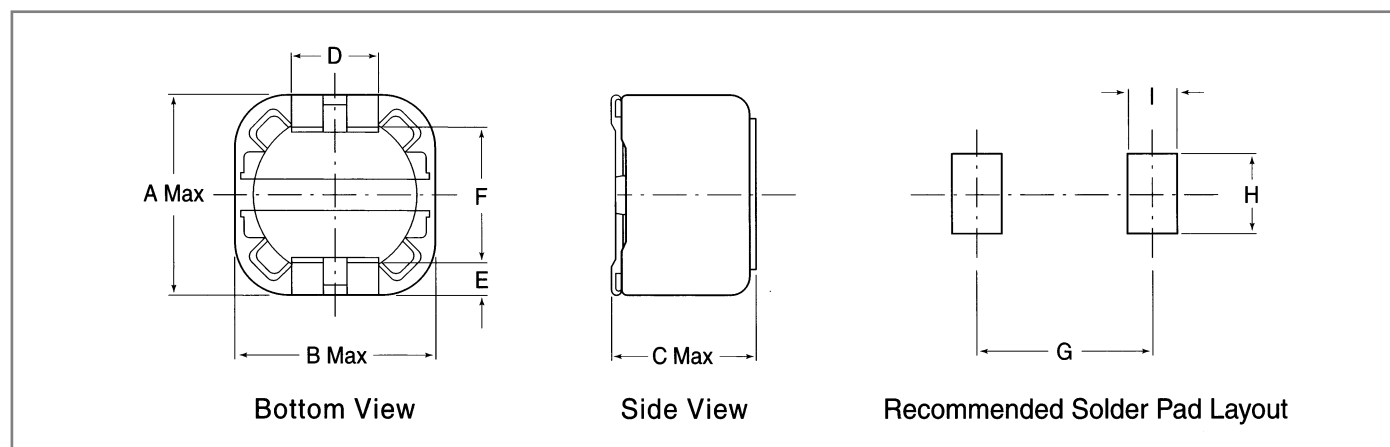
Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX98-501R0	1.0	0.0083	9.50
AX98-501R8	1.8	0.0087	8.00
AX98-503R3	3.3	0.0131	7.00
AX98-504R5	4.5	0.0154	6.00
AX98-507R0	7.0	0.0214	5.50
AX98-50100	10.0	0.0250	4.00
AX98-50120	12.0	0.0270	3.50
AX98-50150	15.0	0.0300	3.30
AX98-50180	18.0	0.0380	3.00
AX98-50220	22.0	0.0450	2.80
AX98-50270	27.0	0.0550	2.30
AX98-50330	33.0	0.0630	2.10
AX98-50390	39.0	0.0750	2.00
AX98-50470	47.0	0.0850	1.80
AX98-50560	56.0	0.1100	1.70

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX98-50680	68	0.120	1.50
AX98-50820	82	0.140	1.40
AX98-50101	100	0.165	1.30
AX98-50121	120	0.195	1.10
AX98-50151	150	0.250	1.00
AX98-50181	180	0.290	0.90
AX98-50221	220	0.400	0.80
AX98-50271	270	0.460	0.75
AX98-50331	330	0.510	0.68
AX98-50391	390	0.690	0.65
AX98-50471	470	0.770	0.58
AX98-50561	560	0.880	0.54
AX98-50681	680	1.200	0.48
AX98-50821	820	1.340	0.43
AX98-50102	1000	1.530	0.40

Note: 1. Inductance measured at 1.0KHz without DC current.

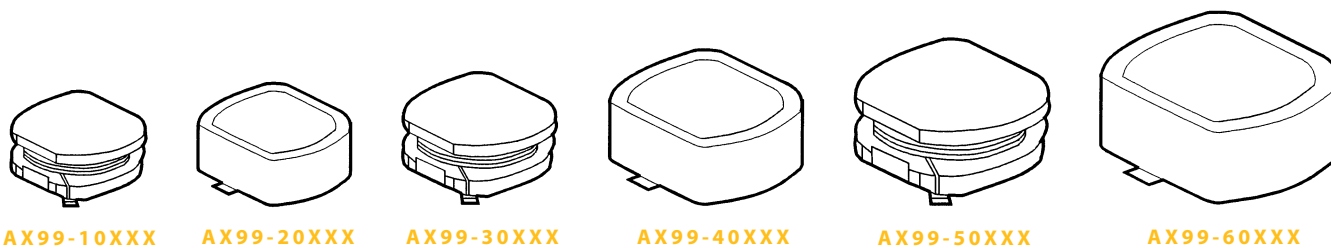
2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T = 40^\circ$ , whichever is lower.

### :: Outline Dimensions



# SMD Power Inductors

## AX99 Series SMD Power Inductors



### :: Description

Slim type  
Low resistance  
Excellent DC current characteristics

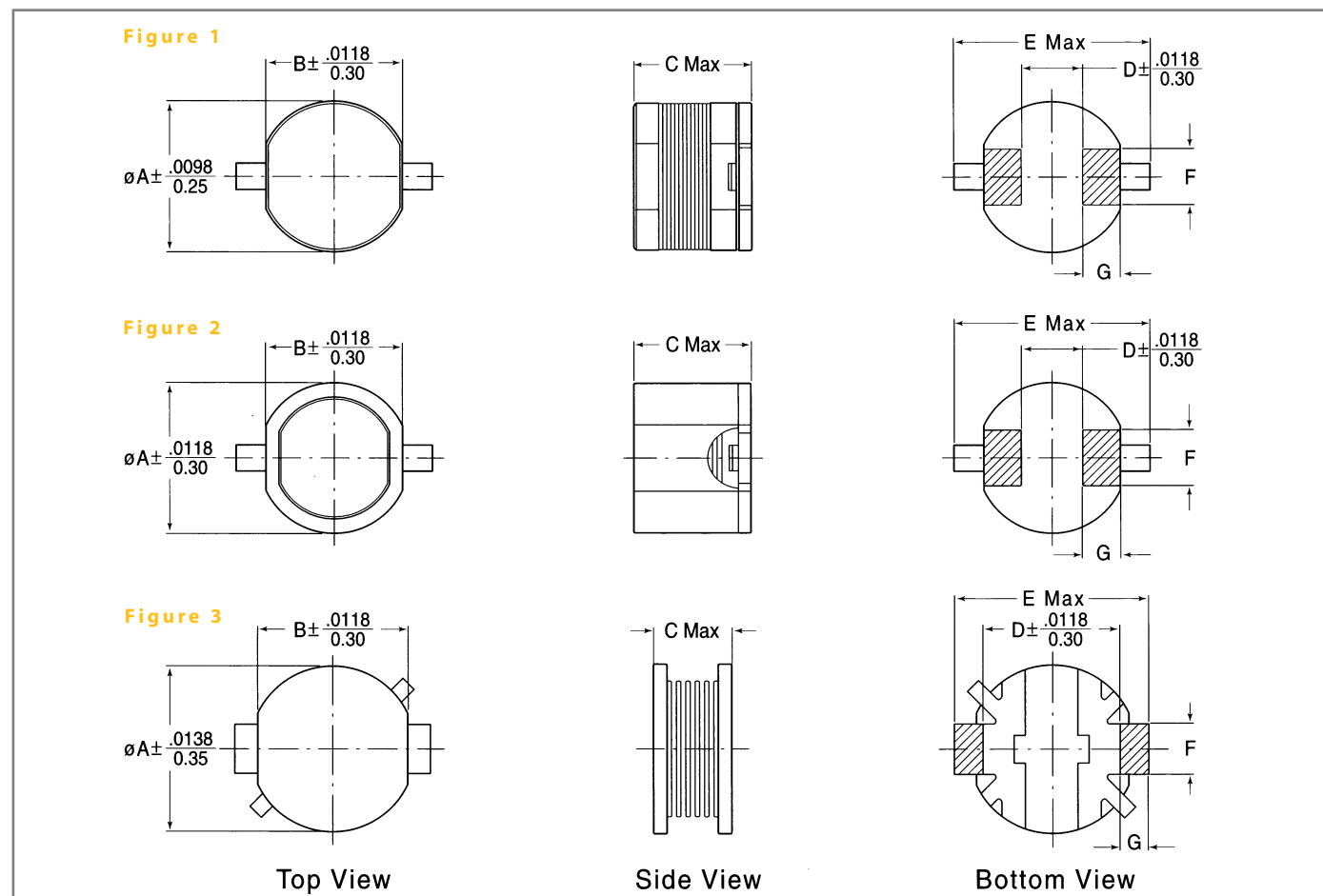
### :: Applications

Laptop and notebook computers and PDAs  
DC/DC converters  
Portable communication equipment  
Inductor for general purpose use

### :: AX99 Series SMD Power Inductors

Part No.	A	B	C	D	E	F	G	Figure
AX99-10XXX	0.23 5.80	0.20 5.20	0.19 4.70	0.122 3.10	0.37 9.50	0.12 3.00	0.052 1.31	1
AX99-20XXX	0.31 7.80	0.28 7.00	0.185 4.70	0.165 4.20	0.465 11.80	0.12 3.00	0.059 1.50	2
AX99-30XXX	0.31 7.80	0.28 7.00	0.19 4.70	0.146 3.70	0.433 11.00	0.12 3.00	0.067 1.71	1
AX99-40XXX	0.39 10.00	0.35 9.00	0.197 5.00	0.197 5.00	0.512 13.00	0.12 3.00	0.097 2.00	2
AX99-50XXX	0.39 10.00	0.35 9.00	0.19 4.70	0.307 7.80	0.433 11.00	0.12 3.00	0.059 1.50	3
AX99-60XXX	0.50 12.60	0.46 11.60	0.197 5.00	0.299 7.60	0.62 15.80	0.12 3.00	0.079 2.00	2

### :: Outline Dimensions



## :: Specifications

Part Number	Inductance (µH ±20%) <sup>(1)</sup>	DC Resistance (Ω Max)	Rated Current (Amp) <sup>(2)</sup>	Figure
AX99-10100	10	0.068	1.60	1
AX99-10120	12	0.080	1.50	1
AX99-10150	15	0.088	1.45	1
AX99-10180	18	0.100	1.40	1
AX99-10220	22	0.130	1.30	1
AX99-10270	27	0.150	1.10	1
AX99-10330	33	0.180	1.00	1
AX99-10470	47	0.250	0.80	1
AX99-10560	56	0.290	0.75	1
AX99-10680	68	0.370	0.70	1
AX99-10820	82	0.420	0.65	1
AX99-10101	100	0.500	0.60	1
AX99-10121	120	0.600	0.55	1
AX99-10151	150	0.720	0.50	1
AX99-10271	270	1.200	0.36	1
AX99-20100	10	0.055	1.70	2
AX99-20120	12	0.064	1.60	2
AX99-20150	15	0.070	1.50	2
AX99-20180	18	0.080	1.40	2
AX99-20220	22	0.100	1.20	2
AX99-20270	27	0.120	1.10	2
AX99-20330	33	0.140	1.02	2
AX99-20470	47	0.190	0.86	2
AX99-20560	56	0.230	0.78	2
AX99-20680	68	0.260	0.73	2
AX99-20820	82	0.310	0.68	2
AX99-20101	100	0.410	0.60	2
AX99-20121	120	0.490	0.56	2
AX99-20151	150	0.660	0.50	2
AX99-20271	270	1.300	0.40	2
AX99-30100	10	0.050	2.40	1
AX99-30120	12	0.060	2.30	1
AX99-30150	15	0.070	2.10	1
AX99-30180	18	0.080	1.90	1
AX99-30220	22	0.100	1.70	1
AX99-30270	27	0.120	1.50	1
AX99-30330	33	0.150	1.30	1
AX99-30470	47	0.190	1.20	1
AX99-30560	56	0.210	1.00	1
AX99-30680	68	0.260	0.93	1
AX99-30820	82	0.310	0.90	1
AX99-30101	100	0.360	0.80	1
AX99-30121	120	0.500	0.75	1
AX99-30151	150	0.630	0.65	1
AX99-30181	180	0.750	0.62	1
AX99-30271	270	1.140	0.55	1
AX99-30331	330	1.350	0.45	1
AX99-30471	470	2.005	0.35	1
AX99-40100	10	0.030	2.50	2
AX99-40120	12	0.035	2.30	2
AX99-40150	15	0.040	2.10	2
AX99-40180	18	0.052	1.90	2
AX99-40220	22	0.058	1.70	2
AX99-40270	27	0.074	1.60	2
AX99-40330	33	0.081	1.40	2
AX99-40470	47	0.120	1.20	2
AX99-40560	56	0.150	1.10	2
AX99-40680	68	0.180	0.97	2

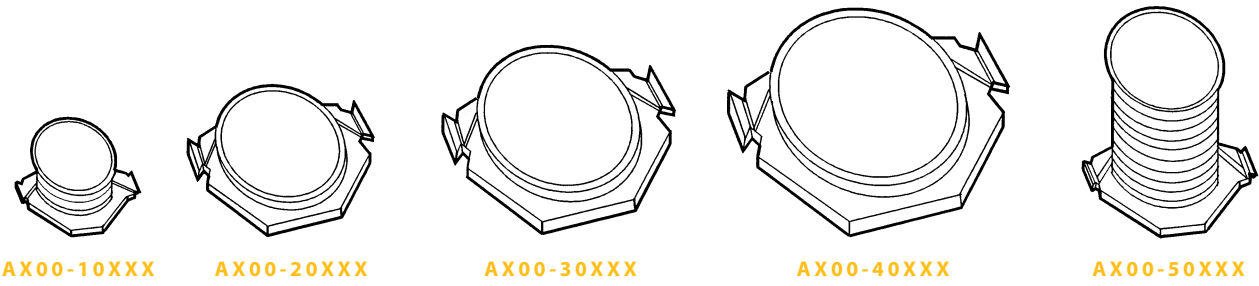
Part Number	Inductance (µH ±20%) <sup>(1)</sup>	DC Resistance (Ω Max)	Rated Current (Amp) <sup>(2)</sup>	Figure
AX99-40820	82	0.200	0.88	2
AX99-40101	100	0.260	0.80	2
AX99-40121	120	0.300	0.73	2
AX99-40151	150	0.360	0.65	2
AX99-40181	180	0.450	0.60	2
AX99-40271	270	0.600	0.49	2
AX99-40331	330	0.750	0.44	2
AX99-40391	390	0.890	0.41	2
AX99-40471	470	1.010	0.37	2
AX99-50100	10	0.045	3.00	3
AX99-50120	12	0.048	2.70	3
AX99-50150	15	0.052	2.50	3
AX99-50180	18	0.062	2.30	3
AX99-50220	22	0.080	2.20	3
AX99-50270	27	0.090	2.10	3
AX99-50330	33	0.103	2.00	3
AX99-50470	47	0.150	1.80	3
AX99-50560	56	0.170	1.50	3
AX99-50680	68	0.200	1.30	3
AX99-50820	82	0.252	1.20	3
AX99-50101	100	0.306	1.10	3
AX99-50121	120	0.350	1.00	3
AX99-50151	150	0.450	0.90	3
AX99-50181	180	0.540	0.80	3
AX99-50221	220	0.660	0.75	3
AX99-50271	270	0.830	0.65	3
AX99-50331	330	0.980	0.60	3
AX99-50391	390	1.100	0.55	3
AX99-50471	470	1.330	0.50	3
AX99-50561	560	1.700	0.46	3
AX99-50681	680	2.100	0.45	3
AX99-50821	820	2.550	0.40	3
AX99-50102	1000	3.150	0.35	3
AX99-50152	1500	4.600	0.28	3
AX99-60100	10	0.039	2.50	2
AX99-60120	12	0.042	2.40	2
AX99-60150	15	0.051	2.30	2
AX99-60180	18	0.054	2.20	2
AX99-60220	22	0.062	2.10	2
AX99-60270	27	0.066	2.00	2
AX99-60330	33	0.073	1.90	2
AX99-60470	47	0.110	1.60	2
AX99-60560	56	0.120	1.40	2
AX99-60680	68	0.140	1.30	2
AX99-60820	82	0.170	1.20	2
AX99-60101	100	0.200	1.10	2
AX99-60121	120	0.250	0.97	2
AX99-60151	150	0.300	0.86	2
AX99-60181	180	0.360	0.84	2
AX99-60221	220	0.430	0.72	2
AX99-60331	330	0.590	0.61	2
AX99-60391	390	0.720	0.58	2
AX99-60471	470	0.810	0.50	2
AX99-60561	560	0.980	0.48	2
AX99-60681	680	1.160	0.43	2
AX99-60821	820	1.420	0.38	2
AX99-60102	1000	1.900	0.35	2
AX99-60152	1500	2.420	0.30	2

Note: 1. Inductance measured at 100KHz 0.1Vrms, without DC current.

2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

# SMD Power Inductors

## AX00 Series SMD Power Inductors



### :: Description

Slim type  
 Low resistance  
 Excellent DC current characteristics

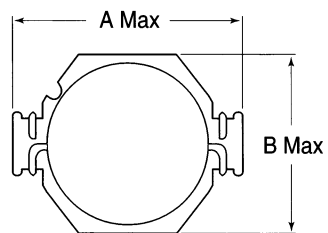
### :: Applications

Laptop and notebook computers and PDAs  
 DC/DC converters  
 Portable communication equipment  
 Inductor for general purpose use

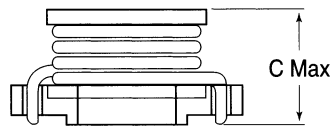
### :: AX00 Series SMD Power Inductors

Part No.	A	B	C	D	E	F
AX00-10XXX	0.350 8.89	0.240 6.09	0.217 5.50	0.290 7.37	0.137 3.48	0.225 5.72
AX00-20XXX	0.530 13.46	0.395 10.03	0.260 6.60	0.410 10.41	0.135 3.43	0.295 7.49
AX00-30XXX	0.768 19.50	0.520 13.21	0.295 7.50	0.610 15.50	0.135 3.43	0.370 9.40
AX00-40XXX	0.865 21.97	0.600 15.24	0.315 8.00	0.690 17.53	0.150 3.81	0.370 9.40
AX00-50XXX	0.530 13.46	0.395 10.03	0.500 12.70	0.410 10.41	0.135 3.43	0.295 7.49

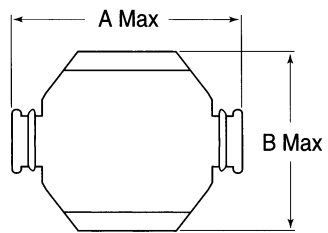
### :: Outline Dimensions



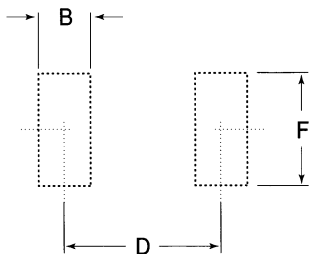
Top View



Side View



Bottom View



Recommended Solder Pad Layout

Figure 1

Figure 2



## :: Specifications

Part Number	Inductance Ldc (µH Typ)	Inductance LO (µH ±20%) <sup>(1)</sup>	DC Resistance @ 25 mMax	Rated Current (Amp) <sup>(2)</sup>
AX00-10R47	0.47	0.47	7.9	6.00
AX00-101R0	1.00	1.00	12.5	4.40
AX00-101R5	1.50	1.60	14.5	4.20
AX00-102R2	2.20	2.26	24.1	3.10
AX00-103R3	3.30	3.45	31.8	2.90
AX00-104R7	4.70	4.85	54.7	2.20
AX00-106R8	6.80	6.90	57.1	1.70
AX00-10100	10.00	10.40	81.3	1.50
AX00-10150	15.00	15.30	124.0	1.20
AX00-10220	22.00	23.00	183.0	1.00
AX00-10330	33.00	33.60	265.0	0.82
AX00-10470	47.00	48.50	334.0	0.72
AX00-20R33	0.33	0.33	2.0	16.00
AX00-20R68	0.68	0.70	3.5	12.00
AX00-201R0	1.00	1.10	4.6	10.00
AX00-201R5	1.50	1.50	6.1	9.00
AX00-202R2	2.20	2.27	7.8	7.40
AX00-202R7	2.70	2.90	10.0	6.60
AX00-203R3	3.30	3.30	11.0	5.90
AX00-204R7	4.70	4.80	15.1	4.80
AX00-20100	10.00	10.00	35.0	3.30
AX00-20150	15.00	15.43	45.0	3.10
AX00-20220	22.00	22.50	62.0	2.80
AX00-20330	33.00	33.20	92.0	2.10
AX00-20470	47.00	48.70	139.0	1.70
AX00-20680	68.00	68.20	177.0	1.50
AX00-20101	100.00	103.00	237.0	1.20
AX00-30R47	0.47	0.47	2.1	16.00
AX00-301R0	1.00	1.10	3.8	12.50
AX00-301R5	1.50	1.65	4.9	10.00
AX00-302R2	2.20	2.30	5.1	9.20
AX00-303R3	3.30	3.44	10.0	8.00
AX00-304R7	4.70	5.00	11.4	6.50
AX00-306R8	6.80	6.90	17.8	5.80
AX00-30100	10.00	10.58	22.8	4.30
AX00-30150	15.00	15.50	35.0	3.90

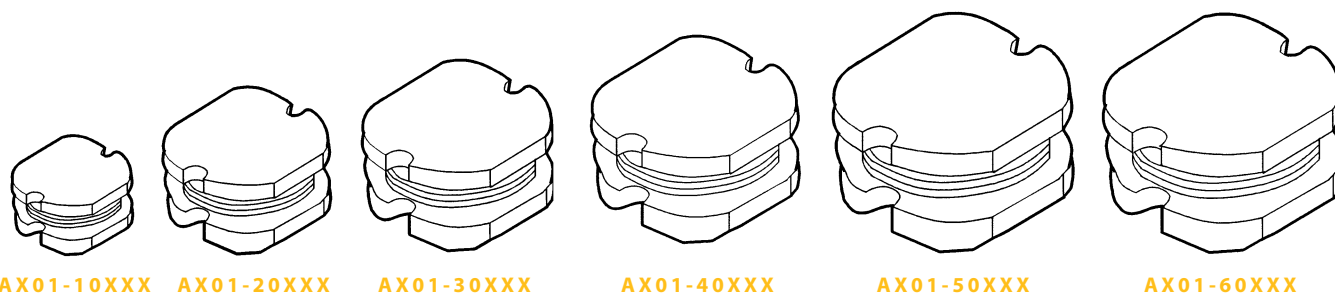
Part Number	Inductance Ldc (µH Typ)	Inductance LO (µH ±20%) <sup>(1)</sup>	DC Resistance @ 25 mMax	Rated Current (Amp) <sup>(2)</sup>
AX00-30220	22.00	22.90	49.10	3.1
AX00-30330	33.00	33.90	69.00	2.4
AX00-30470	47.00	48.00	108.20	1.9
AX00-30680	68.00	69.50	156.00	1.6
AX00-30101	100.00	101.40	205.50	1.4
AX00-40R47	0.47	0.47	1.70	19.2
AX00-401R0	1.00	1.00	2.50	17.3
AX00-401R3	1.30	1.30	3.50	15.0
AX00-402R2	2.20	2.20	4.70	12.0
AX00-403R3	3.30	3.30	8.40	10.0
AX00-403R9	3.90	3.90	7.50	9.0
AX00-404R7	4.70	4.75	9.50	8.5
AX00-406R0	6.00	6.00	13.70	7.5
AX00-407R8	7.80	7.80	15.40	7.5
AX00-40100	10.00	10.00	22.00	6.0
AX00-40150	15.00	15.60	29.50	5.5
AX00-40220	22.00	22.60	34.00	4.5
AX00-40330	33.00	34.50	52.00	3.7
AX00-40470	47.00	48.00	71.00	3.1
AX00-40680	68.00	69.20	104.00	2.4
AX00-40101	100.00	103.00	156.0	2.0
AX00-50R78	0.78	0.78	2.60	15.0
AX00-501R0	1.00	1.00	3.10	17.3
AX00-501R5	1.50	1.52	4.00	15.0
AX00-502R2	2.20	2.27	5.60	12.0
AX00-503R3	3.30	3.30	7.00	11.0
AX00-503R9	3.90	4.00	10.0	9.0
AX00-504R7	4.70	4.70	9.50	6.5
AX00-507R5	7.50	7.50	15.00	6.0
AX00-50100	10.00	10.00	40.00	3.5
AX00-50150	15.00	15.00	50.00	3.0
AX00-50220	22.00	22.00	66.00	2.5
AX00-50330	33.00	33.00	80.00	2.0
AX00-50470	47.00	47.00	110.00	1.6
AX00-50680	68.00	68.00	170.00	1.2
AX00-50101	100.00	100.00	220.00	1.2

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.

2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

# SMD Power Inductors

## AX01 Series SMD Power Inductors



### :: Description

Slim type  
 Low resistance  
 Excellent DC current characteristics

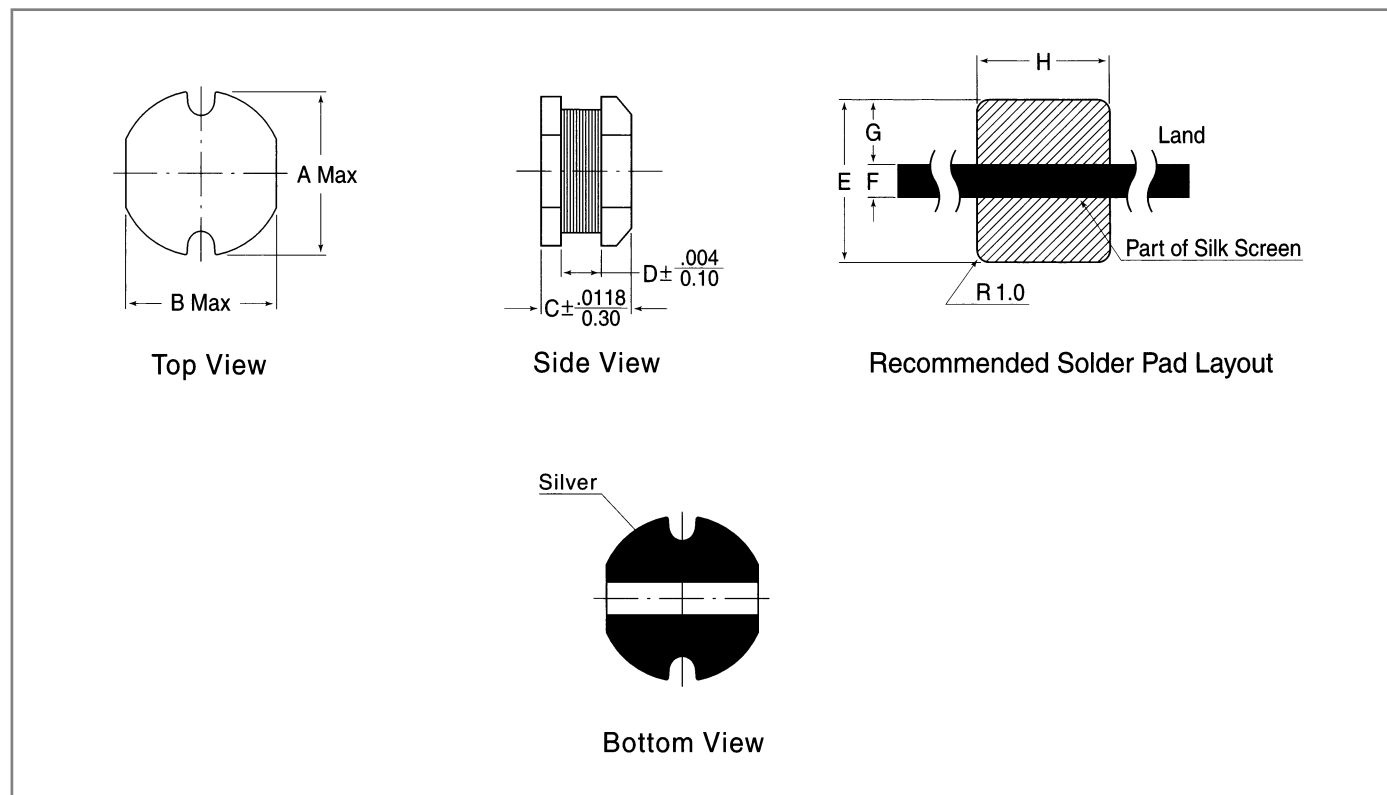
### :: Applications

Laptop and notebook computers and PDAs  
 DC/DC converters  
 Portable communication equipment  
 Inductor for general purpose use

### :: AX01 Series SMD Power Inductors

Part No.	A	B	C	D	E	F	G
AX01-10XXX	$\frac{0.177}{4.50}$	$\frac{0.158}{4.00}$	$\frac{0.126}{3.20}$	$\frac{0.177}{4.50}$	$\frac{0.205}{5.20}$	$\frac{0.059}{1.50}$	$\frac{0.069}{1.75}$
AX01-20XXX	$\frac{0.228}{5.80}$	$\frac{0.205}{5.20}$	$\frac{0.177}{4.50}$	$\frac{0.228}{5.80}$	$\frac{0.240}{6.10}$	$\frac{0.669}{1.70}$	$\frac{0.085}{2.15}$
AX01-30XXX	$\frac{0.307}{7.80}$	$\frac{0.276}{7.00}$	$\frac{0.140}{3.50}$	$\frac{0.315}{8.00}$	$\frac{0.315}{8.00}$	$\frac{0.079}{2.00}$	$\frac{0.118}{3.00}$
AX01-40XXX	$\frac{0.307}{7.80}$	$\frac{0.276}{7.00}$	$\frac{0.199}{5.00}$	$\frac{0.315}{8.00}$	$\frac{0.315}{8.00}$	$\frac{0.079}{2.00}$	$\frac{0.118}{3.00}$
AX01-50XXX	$\frac{0.394}{10.00}$	$\frac{0.354}{9.00}$	$\frac{0.158}{4.00}$	$\frac{0.394}{10.00}$	$\frac{0.394}{10.00}$	$\frac{0.098}{2.50}$	$\frac{0.148}{3.75}$
AX01-60XXX	$\frac{0.394}{10.00}$	$\frac{0.354}{9.00}$	$\frac{0.213}{5.40}$	$\frac{0.394}{10.00}$	$\frac{0.394}{10.00}$	$\frac{0.098}{2.50}$	$\frac{0.148}{3.75}$

### :: Outline Dimensions



## :: Specifications

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX01-101R0	1.0	0.033	3.80
AX01-101R4	1.4	0.056	2.52
AX01-101R8	1.8	0.063	1.95
AX01-102R2	2.2	0.071	1.75
AX01-102R7	2.7	0.078	1.58
AX01-103R3	3.3	0.086	1.44
AX01-103R9	3.9	0.093	1.33
AX01-104R7	4.7	0.094	1.70
AX01-105R6	5.6	0.125	0.99
AX01-106R8	6.8	0.131	0.95
AX01-108R2	8.2	0.146	0.84
AX01-10100	10.0	0.182	1.04
AX01-10120	12.0	0.210	0.97
AX01-10150	15.0	0.235	0.85
AX01-10180	18.0	0.338	0.74
AX01-10220	22.0	0.378	0.68
AX01-10270	27.0	0.522	0.62
AX01-10330	33.0	0.540	0.56
AX01-20100	10.0	0.056	2.00
AX01-20120	12.0	0.120	1.40
AX01-20150	15.0	0.140	1.30
AX01-20180	18.0	0.150	1.23
AX01-20220	22.0	0.180	1.11
AX01-20270	27.0	0.200	0.97
AX01-20330	33.0	0.230	0.88
AX01-20390	39.0	0.320	0.80
AX01-20470	47.0	0.370	0.72
AX01-20560	56.0	0.420	0.68
AX01-20680	68.0	0.460	0.61
AX01-20820	82.0	0.600	0.58
AX01-20101	100.0	0.700	0.52
AX01-20121	120.0	0.930	0.48
AX01-20151	150.0	1.100	0.40
AX01-20181	180.0	1.380	0.38
AX01-20221	220.0	1.570	0.35
AX01-30100	10.0	0.080	1.44

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX01-30120	12.0	0.089	1.39
AX01-30150	15.0	0.104	1.24
AX01-30180	18.0	0.111	1.12
AX01-30220	22.0	0.129	1.07
AX01-30270	27.0	0.153	0.94
AX01-30330	33.0	0.170	0.85
AX01-30390	39.0	0.217	0.74
AX01-30470	47.0	0.252	0.68
AX01-30560	56.0	0.282	0.64
AX01-30680	68.0	0.332	0.59
AX01-30820	82.0	0.406	0.54
AX01-30101	100.0	0.481	0.51
AX01-30121	120.0	0.536	0.49
AX01-30151	150.0	0.755	0.40
AX01-30181	180.0	1.022	0.36
AX01-30221	220.0	1.200	0.31
AX01-30271	270.0	1.306	0.29
AX01-30331	330.0	1.495	0.28
AX01-30902	9000.0	41.000	0.05
AX01-40100	10.0	0.070	2.30
AX01-40120	12.0	0.080	2.00
AX01-40150	15.0	0.090	1.80
AX01-40180	18.0	0.100	1.60
AX01-40220	22.0	0.110	1.50
AX01-40270	27.0	0.120	1.30
AX01-40330	33.0	0.130	1.20
AX01-40390	39.0	0.160	1.10
AX01-40470	47.0	0.180	1.00
AX01-40560	56.0	0.240	0.94
AX01-40680	68.0	0.280	0.85
AX01-40820	82.0	0.370	0.78
AX01-40101	100.0	0.430	0.72
AX01-40121	120.0	0.470	0.66
AX01-40151	150.0	0.640	0.58
AX01-40181	180.0	0.710	0.51
AX01-40221	220.0	0.960	0.49

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.

2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

## :: Specifications

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX01-40271	270.0	1.110	0.42
AX01-40331	330.0	1.260	0.40
AX01-40391	390.0	1.770	0.36
AX01-40471	470.0	1.960	0.34
AX01-50100	10.0	0.053	2.38
AX01-50120	12.0	0.061	2.13
AX01-50150	15.0	0.070	1.87
AX01-50180	18.0	0.081	1.73
AX01-50220	22.0	0.088	1.60
AX01-50270	27.0	0.100	1.44
AX01-50330	33.0	0.120	1.26
AX01-50390	39.0	0.151	1.20
AX01-50470	47.0	0.170	1.10
AX01-50560	56.0	0.199	1.01
AX01-50680	68.0	0.223	0.91
AX01-50820	82.0	0.252	0.85
AX01-50101	100.0	0.344	0.74
AX01-50121	120.0	0.396	0.69
AX01-50151	150.0	0.544	0.61
AX01-50181	180.0	0.621	0.56
AX01-50221	220.0	0.721	0.53
AX01-50271	270.0	0.949	0.45
AX01-50331	330.0	1.100	0.42
AX01-50391	390.0	1.245	0.38
AX01-50471	470.0	1.526	0.35

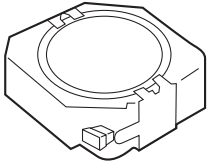
Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) <sup>(1)</sup>	DC Resistance @ 25 $\Omega$ Max	Rated Current (Amp) <sup>(2)</sup>
AX01-50561	560.0	1.904	0.32
AX01-60100	10.0	0.060	2.60
AX01-60120	12.0	0.070	2.45
AX01-60150	15.0	0.080	2.27
AX01-60180	18.0	0.090	2.15
AX01-60220	22.0	0.100	1.95
AX01-60270	27.0	0.110	1.76
AX01-60330	33.0	0.120	1.50
AX01-60390	39.0	0.140	1.37
AX01-60470	47.0	0.170	1.28
AX01-60560	56.0	0.190	1.17
AX01-60680	68.0	0.220	1.11
AX01-60820	82.0	0.250	1.00
AX01-60101	100.0	0.350	0.97
AX01-60121	120.0	0.400	0.89
AX01-60151	150.0	0.470	0.78
AX01-60181	180.0	0.630	0.72
AX01-60221	220.0	0.730	0.66
AX01-60271	270.0	0.970	0.57
AX01-60331	330.0	1.150	0.52
AX01-60391	390.0	1.300	0.48
AX01-60471	470.0	1.480	0.42
AX01-60561	560.0	1.900	0.33
AX01-60681	680.0	2.250	0.28
AX01-60821	820.0	2.550	0.24

Note: 1. Inductance measured at 100.0KHz, 0.1V without DC current.

2. Rated DC current is the approximate current at which inductance will be decreased by 10% from its initial (zero DC) value or the DC current at which  $\Delta T=40^\circ$ , whichever is lower.

# SMD Power Inductors

## AX104R Series SMD Power Shield Inductors



### :: Description

Slim type  
Self shielded  
Height: 4.0mm maximum  
Low resistance  
Excellent DC current characteristics

### :: Applications

Laptop and notebook computers and PDAs  
DC/DC converters  
Portable communication equipment  
Inductor for general purpose use

### :: AX104R Series SMD Power Shielded Inductors

Model	Inductance <sup>(1)</sup> µH	Rated DC <sup>(2)</sup> Current Amps	DC resistance <sup>(3)</sup> Ω Max
AX104R-1R5	1.5	6.5	8.1m
AX104R-2R5	2.5	6.1	10m
AX104R-4R7	4.7	6.0	13m
AX104R-6R8	6.8	4.8	19.5m
AX104R-8R2	8.2	4.6	25m
AX104R-100	10.0	4.4	35m
AX104R-150	15.0	3.6	50m
AX104R-220	22.0	2.9	73m

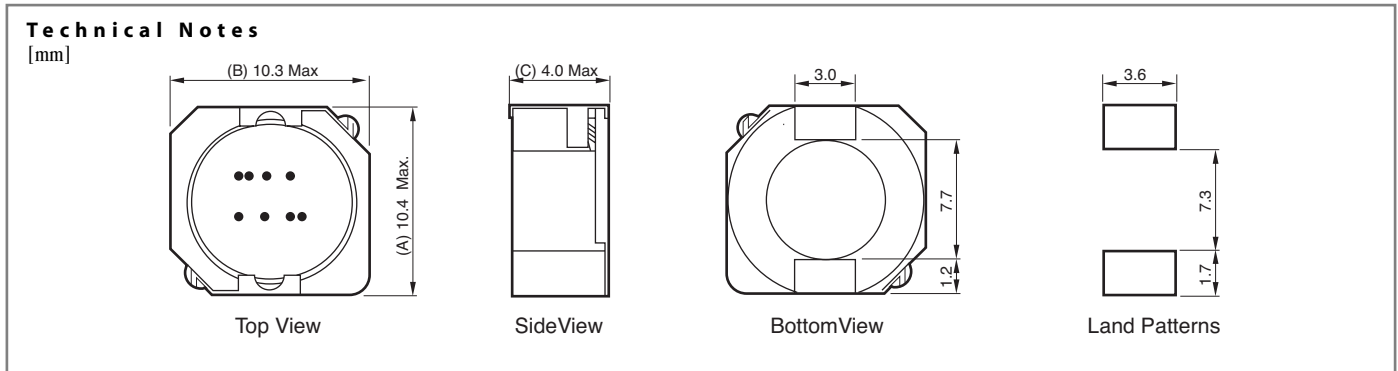
Model	Inductance <sup>(1)</sup> µH	Rated DC <sup>(2)</sup> Current Amps	DC resistance <sup>(3)</sup> Ω Max
AX104R-330	33.0	2.30	93m
AX104R-470	47.0	2.10	128m
AX104R-680	68.0	1.50	213m
AX104R-101	100.0	1.35	304m
AX104R-151	150.0	1.15	506m
AX104R-221	220.0	0.92	756m
AX104R-331	330.0	0.70	1.09

Notes: 1. Inductance measured at 100 kHz 1.0 V without DC current. Tolerance:  $\pm 30\%$  (N).

2. Rated current is the approximate current at which inductance will be decreased by 35% from its initial (zero DC) value.

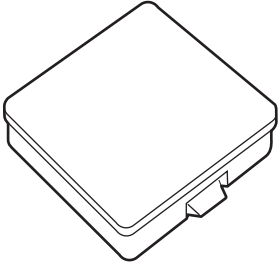
3. DC Resistance measured at 20°C.

### :: Outline Dimensions



# SMD Power Inductors

## AX02 Series SMD Power Shielded Inductors



### :: Description

Slim type  
Self shielded  
Height: 6.5mm maximum  
Low resistance  
Excellent DC current characteristics

### :: Applications

Laptop and notebook computers and PDAs  
DC/DC converters  
Inductor for general purpose use

### :: AX02-30 Series SMD Power Shielded Inductors

Model	Inductance <sup>(1)</sup> µH ±20%	Rated DC <sup>(2)</sup> Current Amps	The saturation <sup>(3)</sup> DC Current Amps	DC Resistance <sup>(4)</sup> mΩ Max
AX02-300R6	0.6	27.0	40.0	1.25
AX02-301R0	1.0	23.0	34.0	1.70
AX02-301R5	1.5	18.0	30.0	2.30
AX02-302R2	2.2	12.0	24.0	5.10
AX02-303R9	3.9	10.0	18.0	7.20
AX02-304R6	4.6	9.0	14.0	8.30
AX02-306R4	6.4	6.5	16.0	9.60

Notes: 1. Inductance measured at 100 kHz 1.0 V without DC current.

2. Rated current is the approximate current at which inductance will be decreased by 15% from its initial (zero DC) value.

3. The saturation DC current at which inductance rolls off approximately 30% from its initial value.

4. DC Resistance measured at 20°C.

### :: Outline Dimensions

#### Technical Notes

A = .523 [13.3]

B = .590 [15.0]

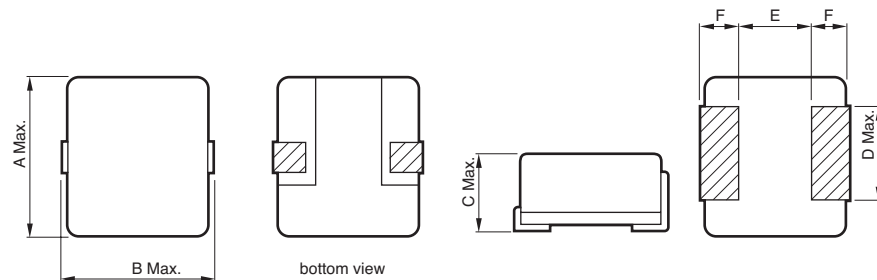
C = .236 [6.50]

D = .295 [7.50]

E = .236 [6.00]

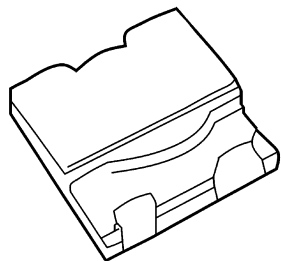
F = .177 [4.50]

Inches [mm]



# SMD Power Inductors

## AXF Series SMD Power Shielded Inductors



### :: Specifications

Part Number	Inductance $\mu\text{H} \pm 20\% \text{ (M)}$	Rated DC <sup>(2)</sup> Currnt Amps	DC Resistance <sup>(3)</sup> $\Omega \text{ Max}$
AXFS05-400R22	0.22	25.0	2.00
AXFS05-400R45	0.45	20.0	4.25
AXFS05-400R8	0.80	16.0	6.82
AXFS05-401R5	1.50	13.0	6.82
AXFS05-402R0	2.00	10.0	9.84
AXFS05-403R3	3.30	8.0	9.84
AXFS05-404R7	4.70	5.5	9.84

### :: AXFS05 Description

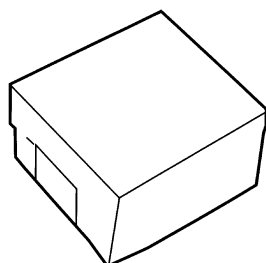
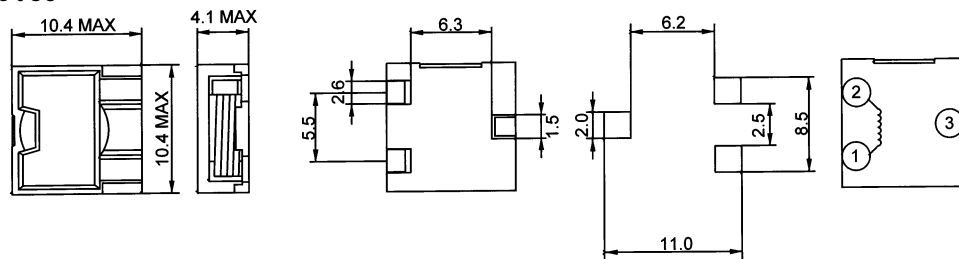
Flat wire  
Height: 4.1mm maximum  
Low resistance  
Excellent DC current characteristics

Notes: 1. Inductance measured at 100kHz .0.1v without DC current.  
2. Rated current is the approximate current at which inductance will be decreased by 15% from its initial (zero DC) value.  
3. DC Resistance measured at 20°C.

### :: Outline Dimensions

#### Technical Notes

[mm]



### :: Specifications

Part Number	Inductance	Inductance		Rated current	DCR		Saturation Current		
		@0 ADC	@ rated current		mohm		ADC	ADC	ADC
50R10	100	nH	nH	ADC					
		$\pm 10\%$	MIN	MAX	TYP	MAX	-40°C	25°C	125°C
		100	80	46	0.23	0.30	48	46	35

Notes: 1. Inductance measured at 100kHz 1.0v without DC current. Tolerance:  $\pm 10\%$  (K).  
2. Rated current is the approximate current at which inductance will be decreased by 20% from its initial (zero DC) value.  
3. DC Resistance measured at 20°C.

### :: AXF06 Description

Slim type, Height: 4.96mm maximum,  
Low resistance, Excellent DC current characteristics

### :: Outline Dimensions

#### Technical Notes

[mm]

