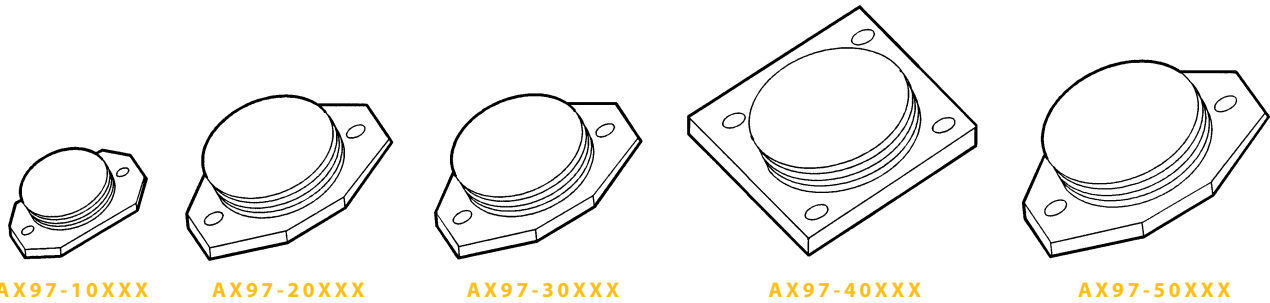


# SMD Power Inductors

## 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

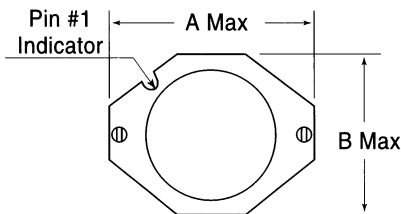
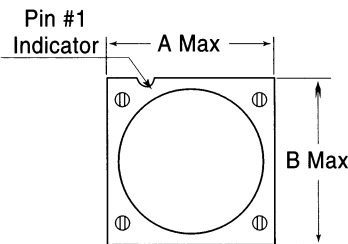
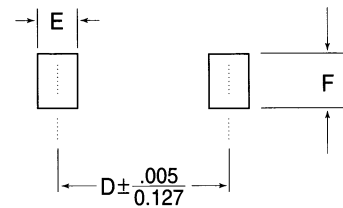
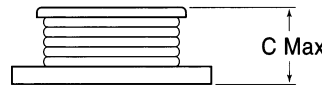
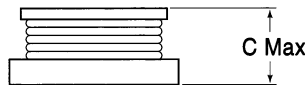


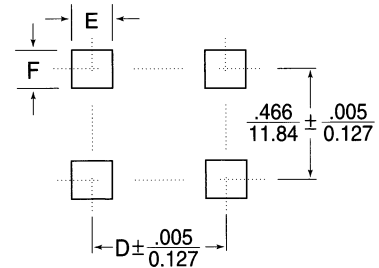
Figure 1



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

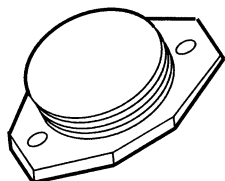
Notes: 1. Inductance measured at 100.0KHz, 0.1Vrms, without DC current.

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

