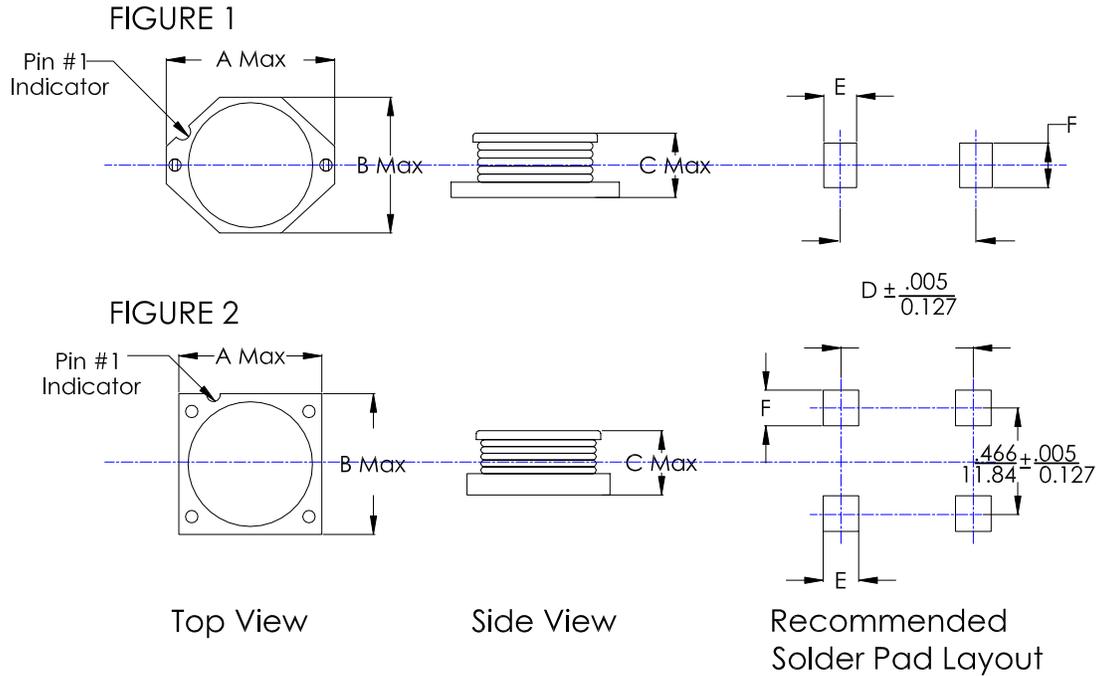


# TRIAD

## AX97 Series

## SMD POWER INDUCTORS

OUTLINE DIMENSIONS/RECOMMENDED PCB LAYOUT(inch/mm)



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



Design and specification are subject to change without notice.

## SPECIFICATIONS

Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) (Note 1)	DC Resistance @25°C ( $\Omega_{\text{max}}$ ) (Note 3)	Rated Current (Amp) (Note 2)	Figure	Part Number	Inductance ( $\mu\text{H} \pm 20\%$ ) (Note 1)	DC Resistance @25°C ( $\Omega_{\text{max}}$ ) (Note 3)	Rated Current (Amp) (Note 2)	Figure
AX97-101R0	1.0	0.03	2.90	1	AX97-30101	100	0.30	1.50	1
AX97-101R5	1.5	0.05	2.80	1	AX97-30151	150	0.44	1.20	1
AX97-102R2	2.2	0.06	2.40	1	AX97-30221	220	0.64	1.00	1
AX97103R3	3.3	0.09	2.00	1	AX97-30331	330	1.00	0.80	1
AX97104R7	4.7	0.12	1.50	1	AX97-30471	470	1.50	0.50	1
AX97-106R8	6.8	0.17	1.30	1	AX97-30681	680	2.20	0.40	1
AX97-10100	10	0.22	1.00	1	AX97-30102	1000	3.15	0.30	1
AX97-10150	15	0.30	0.80	1	AX97-403R3	3.3	0.01	9.80	2
AX97-10220	22	0.43	0.70	1	AX97-404R7	4.7	0.01	9.30	2
AX97-10330	33	0.69	0.57	1	AX97-406R8	6.8	0.02	7.70	2
AX97-10470	47	0.92	0.46	1	AX97-408R2	8.2	0.02	7.00	2
AX97-10680	68	1.39	0.37	1	AX97-40100	10	0.02	6.50	2
AX97-10101	100	1.98	0.28	1	AX97-40150	15	0.03	5.30	2
AX97-10151	150	3.08	0.22	1	AX97-40220	22	0.04	4.40	2
1X97-10221	220	4.47	0.18	1	AX97-40330	33	0.06	3.50	2
AX97-10331	330	6.90	0.15	1	AX97-40470	47	0.07	3.00	2
AX97-10471	470	11.55	0.12	1	AX97-40680	68	0.11	2.50	2
AX97-20100	10	0.070	2.00	1	AX97-40820	82	0.12	2.20	2
AX97-20150	15	0.090	1.50	1	AX97-40101	100	0.15	2.00	2
AX97-20220	22	0.150	1.30	1	AX97-40151	150	0.22	1.70	2
AX97-20330	33	0.210	1.10	1	AX97-40221	220	0.33	1.30	2
AX97-20470	47	0.310	0.80	1	AX97-40331	330	0.45	1.10	2
AX97-20680	68	0.420	0.70	1	AX97-40471	470	0.70	0.93	2
AX97-20101	100	0.580	0.60	1	AX97-40681	680	1.00	0.78	2
AX97-20151	150	0.890	0.50	1	AX97-40102	1000	1.45	0.65	2
AX97-20221	220	1.300	0.40	1	AX97-50R78	0.78	0.003	16.00	1
AX97-20331	330	2.000	0.30	1	AX97-501R3	1.3	0.0043	14.00	1
AX98-20471	470	2.500	0.20	1	AX97-502R0	2.0	0.005	12.00	1
AX97-20681	680	3.500	0.10	1	AX97-502R6	2.6	0.006	10.00	1
AX97-20102	1000	6.000	0.05	1	AX97-503R3	3.3	0.008	9.80	1
AX97-301R0	1.0	0.01	8.50	1	AX97-505R6	5.6	0.010	7.50	1
AX97-301R5	1.5	0.01	7.90	1	AX97-50100	10	0.023	6.00	1
AX97-302R2	2.2	0.02	7.40	1	AX97-50150	15	0.035	4.50	1
AX97-303R3	3.3	0.02	6.60	1	AX97-50220	22	0.045	4.00	1
AX97-304R7	4.7	0.02	6.00	1	AX97-50330	33	0.075	3.00	1
AX98-306R8	6.8	0.03	5.20	1	AX97-50470	47	0.096	2.60	1
AX97-308R2	8.2	0.03	5.00	1	AX97-50680	68	0.140	2.30	1
AX97-30100	10.0	0.04	4.60	1	AX97-50101	100	0.190	1.70	1
AX97-30150	15.0	0.05	3.70	1	AX97-50151	150	0.290	1.50	1
AX97-30220	22.0	0.07	3.10	1	AX97-50221	220	0.410	1.20	1
AX97-30330	33.0	0.11	2.50	1	AX97-50331	330	0.540	1.00	1
AX97-30470	47.0	0.16	2.00	1	AX97-50471	470	0.800	0.83	1
AX97-30680	68.0	0.20	1.80	1	AX97-50681	680	1.150	0.72	1
AX97-30820	82.0	0.24	1.58	1	AX97-50102	1000	1.800	0.56	1

Note: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  $\Delta T=40^{\circ}\text{C}$ ,whichever is lower.

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

**RoHS Compliance:** As of manufacturing date February 2005, all standard products meet the requirements of 2011/65/EU, known as the RoHS initiative.

\* Upon printing, this document is considered "uncontrolled". Please contact Triad Magnetics' website for the most current version

Web: [www.TriadMagnetics.com](http://www.TriadMagnetics.com)  
Phone 951-277-0757  
Fax 951-277-2757

460 Harley Knox Blvd  
Perris, California 92571

Publish Date: December 4, 2013

# Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

## Triad Magnetics:

[AX97-10471](#) [AX97-10221](#) [AX97-406R8](#) [AX97-20221](#) [AX97-30151](#) [AX97-10100](#) [AX97-20102](#) [AX97-20331](#) [AX97-20300](#) [AX97-10680](#) [AX97-40221](#) [AX97-102R2](#) [AX97-306R8](#) [AX97-40820](#) [AX97-20470](#) [AX97-10150](#) [AX97-40330](#) [AX97-40220](#) [AX97-20680](#) [AX97-40102](#) [AX97-30331](#) [AX97-10470](#) [AX97-10331](#) [AX97-301R0](#) [AX97-106R8](#) [AX97-40470](#) [AX97-104R7](#) [AX97-30330](#) [AX97-301R5](#) [AX97-40471](#) [AX97-40680](#) [AX97-40150](#) [AX97-30102](#) [AX97-40100](#) [AX97-30470](#) [AX97-20150](#) [AX97-30101](#) [AX97-303R3](#) [AX97-30820](#) [AX97-20101](#) [AX97-20681](#) [AX97-308R2](#) [AX97-40101](#) [AX97-40681](#) [AX97-404R7](#) [AX97-304R7](#) [AX97-30681](#) [AX97-30220](#) [AX97-302R2](#) [AX97-30221](#) [AX97-30150](#) [AX97-20100](#) [AX97-20471](#) [AX97-40331](#) [AX97-10101](#) [AX97-30100](#) [AX97-10220](#) [AX97-103R3](#) [AX97-101R5](#) [AX97-20220](#) [AX97-10151](#) [AX97-30471](#) [AX97-10330](#) [AX97-408R2](#) [AX97-403R3](#) [AX97-40151](#) [AX97-101R0](#) [AX97-30680](#) [AX97-20330](#) [AX97-20151](#)