TL Power Inductors

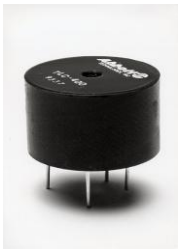
MILITARY CONSTRUCTION: Encapsulated to meet construction requirements of MIL-PRF-27F* Grade 5 Class S.

APPLICATION: These inductors have low losses in the 3 to 100 KHz frequency range, making them ideal for switching regulator and AC filter choke applications.

INDUCTANCE: Part numbers correspond to inductance values in microhenries (µH), which are measured at 1 V, 10 KHz, 0 DC with an inductance tolerance of +15%, –5%. Values of inductance other than listed in an existing size are available. Part Number would be: TL [A, B, or C] – [inductance in microhennies at 0 DC].

CURRENT RATINGS: Listing I_1, is for approximately 10% drop in inductance with a typical 20°C temperature rise, and Listing I_2 is for approximately 20% drop in inductance with a typical 40°C temperature rise.

*Superseded MIL-T-27.

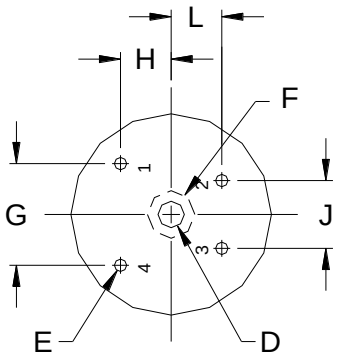


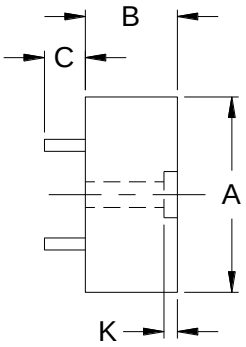
Dimensions

Part No.	Winding	ØA ±.030	B ± .063	C ± .030	ØD ±.010	ØE ±.005	ØF ±.015	G ±.010	H ±.010	J ±.010	K C'bore dia ±.015	L ±.010	Weight (oz.)
TLA	Single	.875	.438	.250	.156	.073	.281	.400	.200	—	.082	—	.6
	Dual		.563							.200		.200	
TLB	Single	1.188	.563	.250	.156	.073	.281	.600	.300	—	.082	—	1.5
	Dual		.688							.400		.300	
TLC	Single	1.375	.750	.250	.156	.073	.281	.800	.300	—	.082	—	3
	Dual		.813							.400		.500	

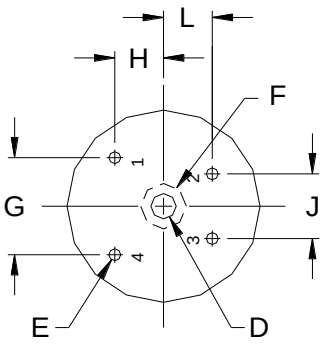
Mechanical Drawings

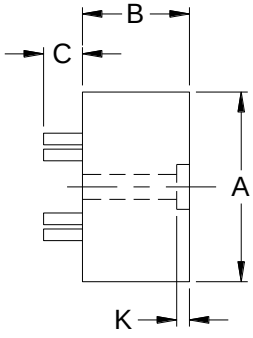
Single Winding





Dual Winding





For detailed specification charts, see other side.

TL Power Inductors

TLA

Part No.	No. of Windings	Inductance at 0 DC (uH)	I_1 at 10% drop in L (amps)	I_2 at 20% drop in L (amps)	Max. DCR (ohms)
TLA-1250	1	1250	.8	1.2	.7
TLA-800	1	800	1	1.5	.45
TLA-500	1	500	1.2	1.8	.3
TLA-350	1	350	1.5	2.2	.2
TLA-200*	2	200	2	3	.12
		50	4	6	.03
TLA-88*	2	88	3	4.5	.052
		22	6	9	.013
TLA-32*	2	32	5	7.5	.02
		6	10	15	.005

TLB

Part No.	No. of Windings	Inductance at 0 DC (uH)	I_1 at 10% drop in L (amps)	I_2 at 20% drop in L (amps)	Max. DCR (ohms)
TLB-3000	1	3000	.8	1.2	1.2
TLB-2000	1	2000	1	1.5	.8
TLB-1200	1	1200	1.25	1.88	.5
TLB-780	1	780	1.6	2.4	.3
TLB-520	1	520	2	3	.2
TLB-320	1	320	2.5	3.75	.13
TLB-220*	2	220	3	4.5	.08
		55	6	9	.02
TLB-120*	2	120	4	6	.05
		30	8	12	.013
TLB0-80*	2	80	5	7.5	.032
		20	10	15	.008

TLC

Part No.	No. of Windings	Inductance at 0 DC (uH)	I_1 at 10% drop in L (amps)	I_2 at 20% drop in L (amps)	Max. DCR (ohms)
TLC-10000	1	10000	.84	1.2	1.2
TLC-6400	1	6400	1	1.5	.8
TLC-2500	1	2500	1.6	1.88	.5
TLC-1600	1	780	2.1	2.4	.3
TLC-1000	1	520	2.6	3	.2
TLC-640*	2	640	3.3	4.5	.13
		180	6.6	9	.033
TLC-400*	2	400	4	5.4	.088
		100	8	10.8	.022
TLC-240*	2	240	5	6.8	.056
		60	10	13.6	.014

*Two identical windings brought out to four terminals permit series, parallel, center tapped, or transformer connections.

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