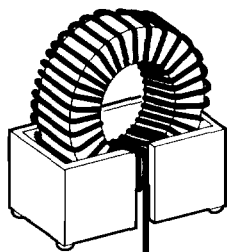


# SWITCHMODE/HIGH FREQUENCY

## TOROIDAL INDUCTORS



**MAGNETEK**  
For Advanced  
Switchmode Designs

**DESCRIPTION:** TRIAD toroidal inductors from MagneTek are specifically designed to minimize transients. These devices store energy, and therefore, condition the output signal by leveling out the current waveform providing a more stable current supply. Generally used in high frequency circuits, our standardized design provides an economical solution for use in differential mode applications or as an output inductor.

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### Toroidal Inductors

Section	Type No.	Min. Inductance (uH)		Rated DC Amps	Max. DCR (mOhms)	Dimensions						Wt. Lbs.
		No Bias	At Bias			A	B	C	D	E	F	
A	FIT44-1	18.85	12.72	2.8	44.8	0.625	0.350	0.700	0.250	0.350	0.020	.008
	FIT44-2	14.75	9.82	3.4	30.7						0.022	
	FIT44-3	12.30	7.75	4.0	23.4						0.025	
	FIT44-4	8.06	5.22	4.8	15.9						0.028	
B	FIT50-1	47.40	29.00	2.8	78.9	0.700	0.475	0.750	0.300	0.474	0.020	.012
	FIT50-2	35.48	23.77	3.4	57.8						0.022	
	FIT50-3	27.16	16.13	4.0	40.1						0.025	
	FIT50-4	21.65	12.27	4.8	29.2						0.028	
	FIT50-5	16.76	9.50	5.7	20.0						0.032	
	FIT50-6	12.50	6.75	6.8	14.0						0.036	
	FIT50-7	8.86	4.80	8.1	11.0						0.040	
C	FIT68-1	89.50	57.99	2.8	108.0	0.875	0.475	0.950	0.300	0.474	0.020	.026
	FIT68-2	71.10	41.59	3.4	86.1						0.023	
	FIT68-3	54.81	33.05	4.0	59.9						0.026	
	FIT68-4	43.30	26.63	4.8	42.4						0.028	
	FIT68-5	33.15	18.79	5.7	28.8						0.032	
	FIT68-6	24.31	13.56	6.8	20.2						0.036	
	FIT68-7	18.64	10.23	8.1	14.8						0.040	
D	FIT80-1	128.00	74.04	4.0	95.2	0.975	0.625	1.100	0.450	0.624	0.026	.045
	FIT80-2	107.50	58.05	4.8	67.9						0.029	
	FIT80-3	80.75	42.00	5.7	44.8						0.032	
	FIT80-4	65.04	31.60	6.8	32.8						0.036	
	FIT80-5	47.70	22.79	8.1	22.5						0.040	
	FIT80-6	38.07	18.11	9.7	17.0						0.045	
E	FIT106-1	253.00	153.00	4.0	139.0	1.300	0.725	1.400	0.500	0.724	0.026	.090
	FIT106-2	197.00	113.00	4.8	106.0						0.029	
	FIT106-3	154.00	84.00	5.7	74.0						0.032	
	FIT106-4	116.00	61.90	6.8	48.5						0.036	
	FIT106-5	93.00	48.00	8.1	39.1						0.040	
	FIT106-6	70.05	35.30	9.7	24.0						0.045	

A FIT-KIT is available which includes one of each of the above listed components.

#### TECHNICAL NOTES:

- Nominal inductance values are typically 10% higher than minimum rating.
- Biased inductance measured at rated DC amps.
- Operation at rated current yields approximately 40°C rise over 20°C ambient.

Figure A

