

Switchmode/High Frequency

Rod Core Inductors

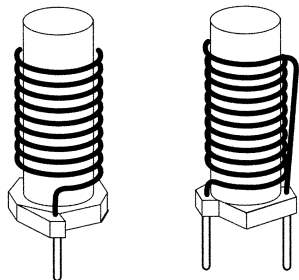


Figure A

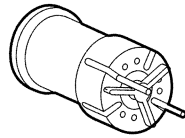


Figure B

:: Description

Triad high current rod core inductors provide cost effective energy storage. By conditioning the output signal, the inductor smooths out the current waveform to provide a more stable current. These low cost inductors are designed to be compatible with automated P.C.B. installation.

Operating frequency: 20KHz - 200KHz

:: High Current Rod Core Inductors

Section	Type No.	Color Code	Figure	±15% Inductance µH	DC Rated Current	Max. DC Resistance (mOhms)	Lead Diameter	Wt. Lbs.
A	FIRCH-1	Red Dot	A	2.54	11.60A	5.50	.050"	.03
	FIRCH-2	Yellow Dot		3.05	9.70A	7.30	.045"	
	FIRCH-3	Orange Dot		3.60	8.10A	9.95	.040"	
	FIRCH-4	Green Dot		5.00	6.80A	14.10	.036"	
	FIRCH-5	Black Dot		5.90	5.70A	18.50	.032"	
	FIRCH-6	Brown Dot		7.22	4.80A	26.10	.028"	

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

:: Rod Core Inductors

Section	Type No.	Figure	10% Inductance	DC Rated Current	±15% DC Resistance Ohms	Dimensions				Wt. Oz.
						H	L	A	B	
B	RC-1	B	5.6 mH	.250A	6.100	.93	.600	.150	.375	.03
	RC-2		3.9 mH	.320A	3.900					
	RC-3		2.5 mH	.400A	2.450					
	RC-4		1.5 mH	.500A	1.530					
	RC-5		915.0 µH	.625A	1.000					
	RC-6		560.0 µH	.800A	.600					
	RC-7		450.0 µH	1.000A	.420					
	RC-8		250.0 µH	1.250A	.210					
	RC-9		200.0 µH	1.600A	.180					
	RC-10		100.0 µH	2.000A	.098					
	RC-11		75.0 µH	2.500A	.070					

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

:: Outline Dimensions

Technical Notes
Figure A
1. Rated current 40°C temperature rise.

Figure B

- Rated current 10 amps per pin maximum.
- Rated current renders approximately 40°C temperature rise.