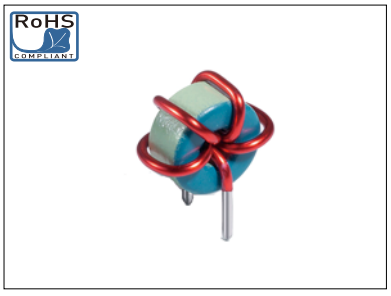
High Current Toroid Inductors - HTC Series

Meisongbei



Features

- DC/DC converter, EMI filter applications
- Designed for high current, low voltage
- Horizontal or vertical mount
- Toroid core offers compact size, minimum EMI
- Operating temperature -40 to +85 °C
- Inductance test at 100KHz, 0.1Vrms.
- Current to cause 40°C temperature rise.

Product Identification:

HTC 5052 V - 1R5 M - 10A

(1) (2) (3) (4) (5) (6)

1. Type: Meisongbei High Current Toroidal Coil
2. Core style: OD=0.5"(12.7mm). "52" is material
3. Shape: "V. H. F. U" shape
4. Inductance: Example: 101 for 100uH
5. Inductance tolerance: L: ±15%; M: ±20%
6. Rated Current

Dimensions & Configurations (Unit:mm)

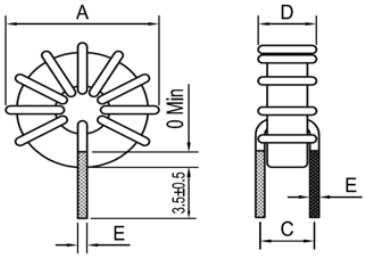


Figure 1 (Standard V Shape)

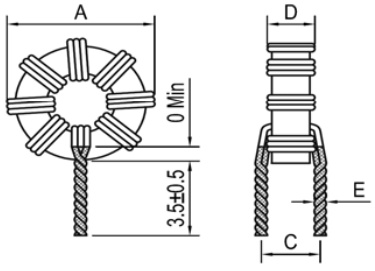


Figure 2 (multiwire V Shape)

Electrical Characteristics For HTC Series

Part Number	L [uH] ±20%	Idc [A] (Max.)	DCR [mΩ] (Max.)	Dimensions (mm)				
				A (Max.)	C ±1.0	D (Max.)	E	Fig
HTC3018V-R82M-10A	0.82	10	4.2	10.5	5.5	6.0	1.0±0.2	2
HTC3818V-R60M-14A	0.6	14	2.2	13.0	7.0	7.5	1.4±.0.2	2
HTC3818V-1R0M-10A	1.0	10	3.3	14.0	7.0	8.0	1.4±0.2	2
HTC4453V-1R2M-14A	1.2	14	3.0	15.5	5.5	8.0	1.1±0.1	1
HTC4453V-2R2M-10A	2.2	10	4.0	15.5	5.5	8.0	1.0±0.1	1
HTC5018V-R60M-25A	0.6	25	1.4	16.5	7.5	8.0	1.6±0.3	2
HTC5018V-1R2M-18A	1.2	18	1.9	16.5	9.0	11.5	1.9±0.3	2
HTC5052V-1R5M-10A	1.5	10	2.6	17.5	8.0	10.0	1.2±0.1	1
HTC5053V-1R6M-18A	1.6	18	3.0	17.5	9.0	10.5	1.9±0.3	2
HTC6053V-1R2M-25A	1.2	25	1.9	19.0	9.0	9.5	1.9±0.3	2
HTC6018V-2R2M-15A	2.2	15	2.7	19.0	8.5	9.0	1.8±0.3	2