

Worldwide Presence
Engineering Expertise
Leading Edge Technology
Our Commitment to Quality



High Current Toroidal Inductors At-A-Glance

Your one source for wire wound
magnetic solutions

24 Different Models

Broad Inductance and Current Ranges

Vertical Mount With Self Leads

Horizontal Mount Versions Available

Custom Inductance Models Available



+1 866.239.5777
belfuse.com/signal

MEDICAL
 Diagnostic
 Surgical Equipment
 Patient Monitoring
 Surgical Generators
 In-Home Dialysis
 Blood Analyzers

NETWORKING
 Data Center Switching
 Routers
 Servers & Server I/O
 Server Blades
 40G Firewall
 Patch Panels & Wiring
 Closet

TELECOM / DATACOM
 Set-Top Boxes
 Printers
 Plotters
 Telephone Line
 Switching PBX
 Current Line Detection

CONSUMER
 Projectors
 LCD Televisions
 Hand Held Devices
 Desktop Computers

INDUSTRIAL
 Material Handling
 Process Control
 Robotics
 Elevators
 Power Controllers
 Power Supplies
 Vending Machines

24 Different Models, Vertical Mount With Self Leads, Broad Inductance and Current Range, Scalable to Horizontal Mount, 2 or 4 or Pin Headers can be added, Custom Inductance Models Available

Specifications

- Operating Temperature Range: -55°C to 105°C, 30°C Max T Rise
- Inductance Range: 10 µH - 1000 µH @ 0 ADC
- Rated Current Range: 2.4 A to 20.0 A
- Class B Insulation
- RoHS and REACH Compliant

Lead or Termination

- 1/2" Minimum Self Lead Length
- Tinned to 1/16" above Mounting Plane

Dimensions

- 1.28" Maximum Height
- 0.65" Maximum Width

Where Used

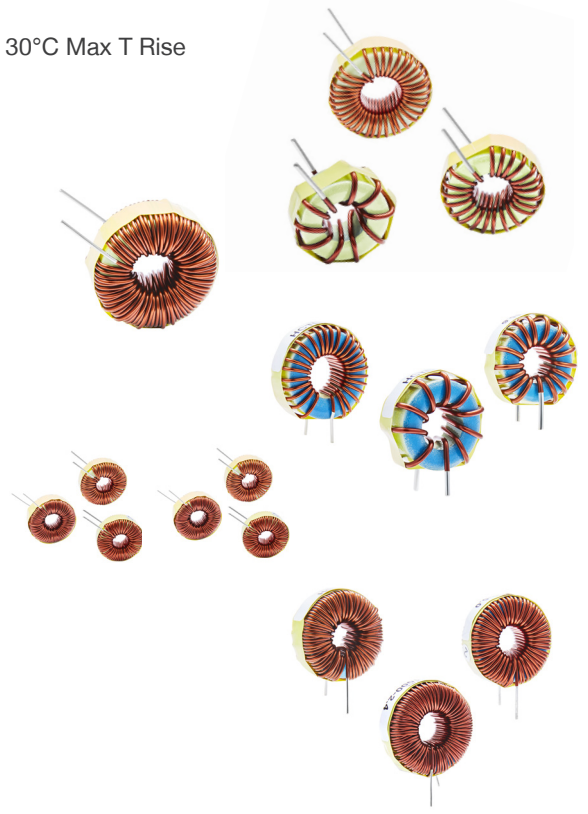
- Consumer Products
- PC Boards for Controls and Power Supplies
- Various Industrial and Medical Applications

How Used in Circuitry

- EMI/RFI Filter
- Energy Storage Device, Choke Inductor

Features

- High Efficiency through Reduced Core Loss
- Low Magnetic Radiation from Self Shielding
- High Energy Storage with Distributed Air Gaps



Specifications Table

SIGNAL PART #	L (uh) = ± 15% @ 1 kHz	IDC (A)	L (uh) ± 15% @ I rated	DCR Ohm Max
HCTI-10-20.0	10	20.0	6.7	0.005
HCTI-12-19.1	12	19.1	7.8	0.005
HCTI-15-18.0	15	18.0	9.5	0.006
HCTI-18-17.2	18	17.2	11.1	0.006
HCTI-22-16.4	22	16.4	13.2	0.007
HCTI-27-15.6	27	15.6	15.7	0.008
HCTI-33-11.7	33	11.7	21.3	0.013
HCTI-39-11.2	39	11.2	24.7	0.014
HCTI-47-10.7	47	10.7	29.0	0.016
HCTI-56-10.2	56	10.2	33.7	0.017
HCTI-68-7.7	68	7.7	45.2	0.030
HCTI-100-7.0	100	7.0	63.1	0.037
HCTI-120-6.7	120	6.7	73.9	0.040
HCTI-150-5.0	150	5.0	101.4	0.071
HCTI-180-4.8	180	4.8	118.9	0.078
HCTI-220-5.8	220	5.8	123.8	0.054
HCTI-270-5.5	270	5.5	147.2	0.060
HCTI-330-5.2	330	5.2	174.1	0.067
HCTI-390-5.0	390	5.0	200.2	0.072
HCTI-470-3.8	470	3.8	271.4	0.130
HCTI-560-3.6	560	3.6	314.8	0.140
HCTI-680-3.4	680	3.4	370.7	0.150
HCTI-820-2.6	820	2.6	500.9	0.270
HCTI-1000-2.4	1000	2.4	593.6	0.300

