

HCTI Series – High Current Torroidal Inductors Series

24 different introductory SKUs

Signal Transformer, a bel group, is a global leader in design and manufacturing of Linear Transformers, High Frequency Magnetics and SMD Power Inductors. Our products provide solutions to power conversion applications across all industries.

High Current Torroidal Inductor – 24 SKUs



24 Different Models

Built to Meet UL 5085-1

Product Features:

- Vertical PC Mounting For Optimization of Board Layout.
- Wide Range of Inductance and Current Ratings.
- Self-Shielding For Low Magnetic Flux Radiation.
- Distributed Air Gap For High Energy Storage.
- High Current Carrying Capability.
- High Efficiency Through Reduced Core Loss.
- Lower operating temperature compared to traditional laminated inductors
- RoHS Compliant.
- Low Cost.

Where are these parts used?

- DC to DC power supplies
- Inductor in SMPS
- EMI/RFI Filtering applications
- Output chokes for DC to DC Convertors
- Energy Storage
- Consumer Products
- Energy Management
- Audio Visual applications
- Household Appliances
- Electronic Laboratory Equipment
- Commercial LED conversions
- Portable communications equipment
- Heavy Industrial applications



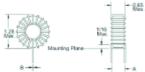
NPI – HCTI Data Sheet & Specifications





- Vertical PC Mounting for Board Layout Optimization.
- Wide Range Of Inductance and Current ratings. Distributed Air Gap For High Energy Storage.
- High Biticlency Reduced Core Loss.
- Self-Shielding For Low Magnetic Radiation High Current Carrying Capability.





- SMPS Energy Storage Inductors.
 BMFRFI Filtering Inductors.
- DC-DC Convener Chokes.

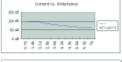
- (1) Dimensions are in Inches. (2) Current causing 30°C max temperature rise.
- (3) Operating Temperature Range of -55 to +105°C.
- (4) Leads tinned to within 1/16 of an inch above Mounting Plane. (5) Lead Length of 0.50 inches

Electro-Mechanical Characteristics

Pert Humber	L (u H) ±15% @ 1 KHz	L(u H) ±15% @ I-reled	DO Resistance © MAX	Frated D0 Gurrent Amps p	Dimension A (Inches) Hominal	Dimension B (Inches) Hostinal
HCTI-10-20.0	10	6.7	0.005	20.0	0.56	0.066
HCTI-12-19.1	12	7.8	0.005	19.1	0.56	0.066
HCTI-15-18.0	15	9.5	0.005	18.0	0.56	0.066
HCTI-18-17.2	18	11.1	0.005	17.9	0.56	0.066
HCTI-22-16.4	22	13.2	0.007	16.4	0.56	0.066
HCTl-27-15.6	27	15.7	0.005	15.6	0.56	0.066
HCTI-33-11.7	33	21.3	0.013	11.7	0.53	0.053
HCTI-39-11.2	39	24.7	0.014	112	0.53	0.053
HCTI-47-10.7	47	29.0	0.016	10.7	0.53	0.053
HCTI-55-10.2	56	33.7	0.017	10.2	0.53	0.053
HCTI-68-7.7	65	45.2	0.030	7.70	0.52	0.042
HCTI-100-7.0	100	63.1	0.037	7.00	0.52	0.042
HCTI-120-6.7	120	73.9	0.040	6.70	0.52	0.042
HCTI-150-5.0	150	101.4	0.071	5.00	0.51	0.034
HCTI-180-4.8	180	118.9	0.078	4.80	0.51	0.034
HCTI-220-5.8	220	123.6	0.054	5.80	0.56	0.042
HCT1:270-5.5	270	147.2	0.060	5.50	0.56	0.042
HCTI-330-5.2	330	174.1	0.067	5.20	0.56	0.042
HCTI-390-5.0	390	200.2	0.072	5.00	0.56	0.042
HCTI-470-3.8	470	271.4	0.130	3.80	0.54	0.034
HCTI-550-3.6	560	314.8	0.140	3.60	0.54	0.034
HCTI-680-3.4	680	370.7	0.150	3.40	0.54	0.034
HCTI-820-9.6	820	500.9	0.270	2.60	0.53	0.027
HCTI-1000-2.4	1000	593.6	0.300	2.40	0.53	0.027













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STANDARD SPECIFICATIONS

1/2" Min Lead Tinned 1/16" Above Mounting Plane -55 C to 105 C Operating Temperature Rated Current Range 2.2A dc- 20A dc Inductance range 6.7 to 593 uh Self Shielding & High Current 1.28" Maximum Height 0.65" Maximum Width

Distributed Air Gap



















Thank you

We appreciate your time and attention