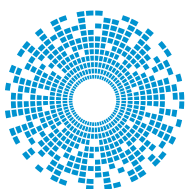
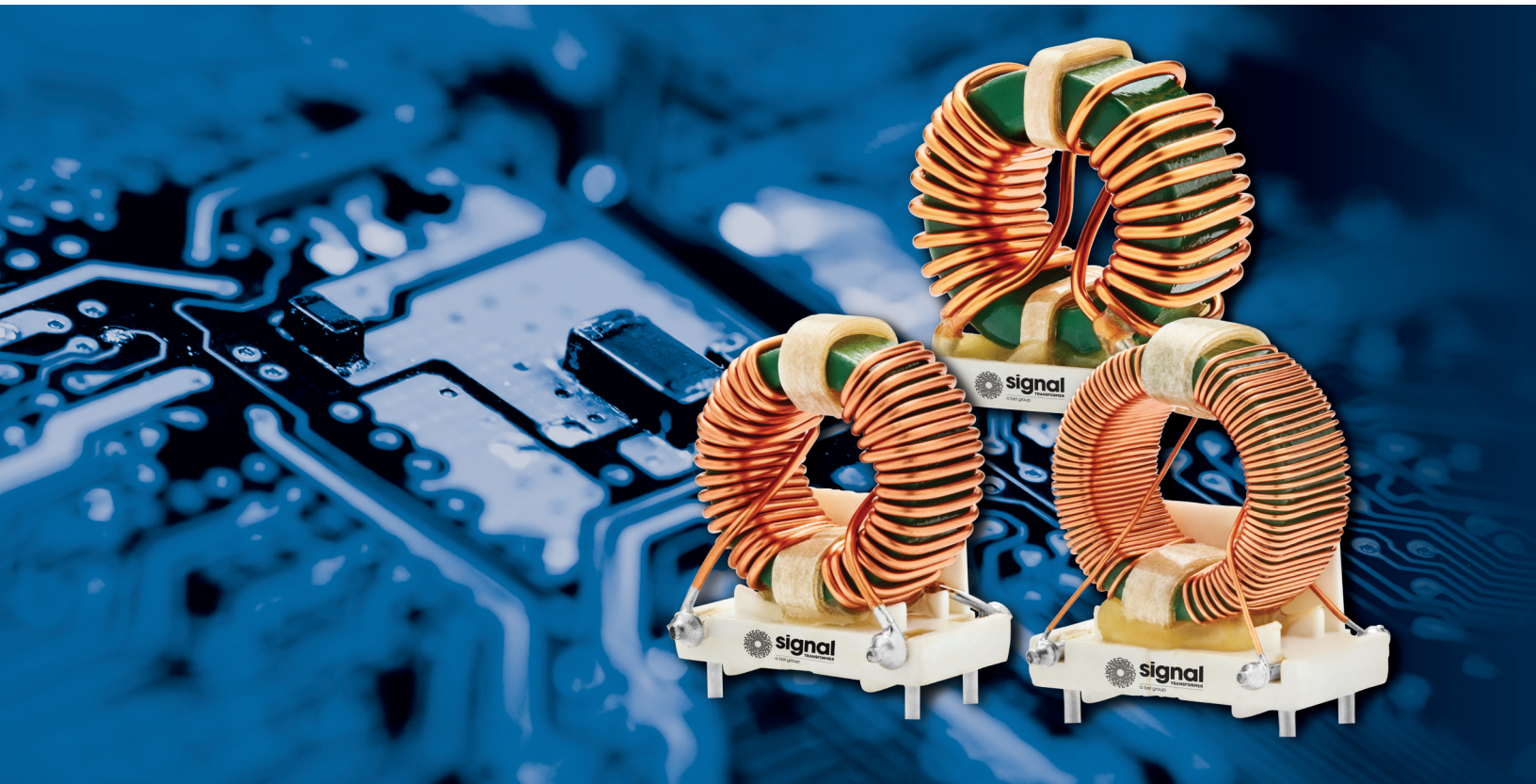


High Current Toroidal Chokes (HCTC) Common Mode

At-a-Glance

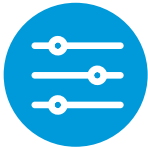


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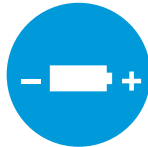
Applications



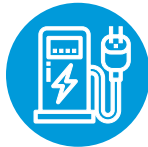
EMI/RFI
filtering for
SMPS



Computers,
Monitors



DC-DC
Converters



EV Charging
Power
Supplies

Industries



Industrial



Electronic



Telecom



Power

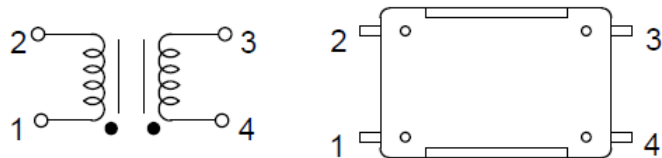
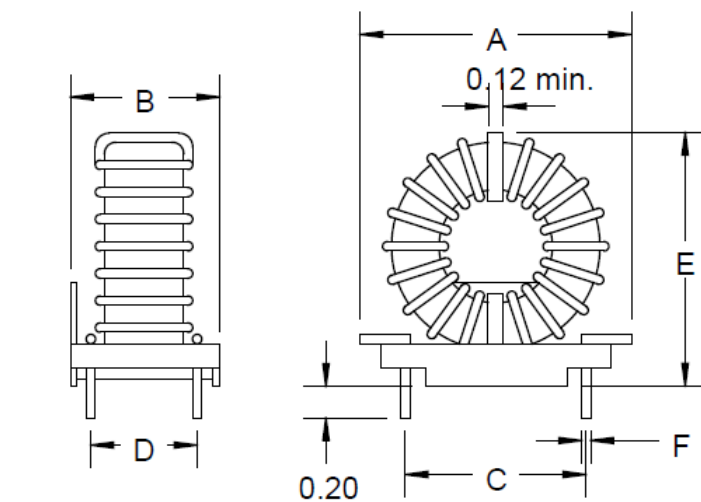


Electric
Vehicle

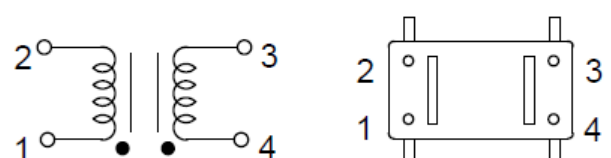
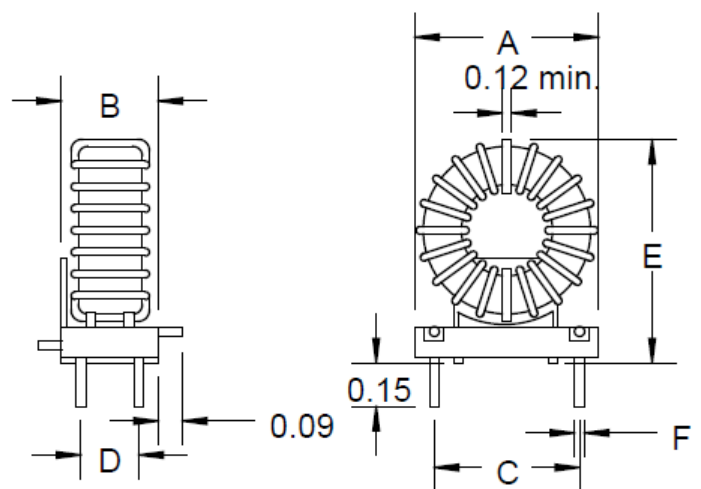


Vertical PCB Mounting

HCTC-10-2.4 to HCTC-1-20



HCTC-4-1.7 to HCTC-1-4.8



Features

1. Solid base for stable vertical mounting
2. Fixed pin spacing for easy PCB insertion
3. Wide range of inductance and current
4. Single layer wound coils
5. High current capacity
6. Excellent EMI suppression

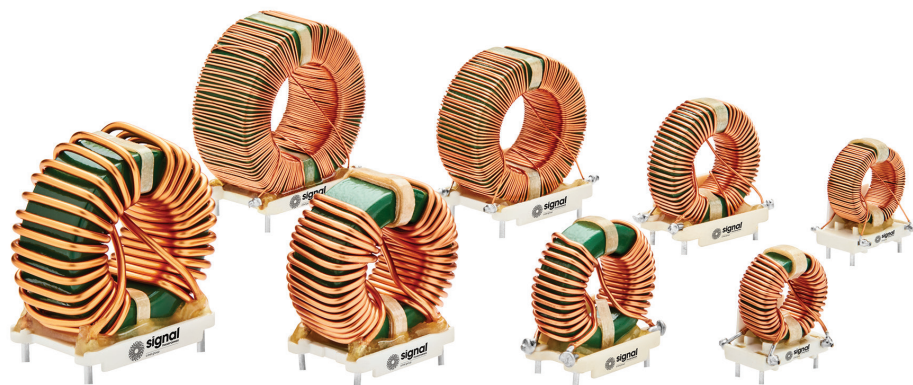
Notes

- (1) Dimensions are in inches
- (2) Max. current based on 35°C temperature rise Typ.
- (3) Operating temperature range of -55 to +105°C
- (4) Dielectric Strength: 1,500V rms
- (5) UL 94V-0 rated coil mounting header

Electro-Mechanical Characteristics

Part Number	L (mH) Min. @ 1KHz	L (uH) Typical Leakage	DCR(Ω) Max.	I (A) ⁽²⁾ Max.	Dimension A Max.	Dimension B ±0.010	Dimension C ±0.015	Dimension D ±0.015	Dimension E Max.	Dimension F Max.
HCTC-4-1.7	4.0	27	0.173	1.70	0.76	0.455 max	0.600	0.250	0.900	0.040
HCTC-2.5-2.4	2.5	17	0.090	2.40	0.76	0.455 max	0.600	0.250	0.900	0.040
HCTC-1-4.8	1.0	7.0	0.022	4.80	0.76	0.455 max	0.600	0.250	0.900	0.040
HCTC-10-2.4	10	45	0.170	2.40	1.20	0.606	0.800	0.400	1.200	0.050
HCTC-7-2.8	7.0	32	0.120	2.80	1.20	0.606	0.800	0.400	1.200	0.050
HCTC-5-3.7	5.0	23	0.070	3.70	1.20	0.606	0.800	0.400	1.200	0.050
HCTC-2-6.6	2.0	9.0	0.022	6.60	1.20	0.606	0.800	0.400	1.200	0.050
HCTC-1-10	1.0	4.5	0.010	10.0	1.20	0.606	0.800	0.400	1.200	0.050
HCTC-30-2.3	30	136	0.330	2.30	1.35	0.815	0.900	0.600	1.450	0.050
HCTC-20-2.9	20	95	0.210	2.90	1.35	0.815	0.900	0.600	1.450	0.050
HCTC-12-4	12	57	0.110	4.00	1.35	0.815	0.900	0.600	1.450	0.050
HCTC-8-5.6	8.0	38	0.055	5.60	1.35	0.815	0.900	0.600	1.450	0.050
HCTC-5-8.9	5.0	25	0.022	8.90	1.45	0.815	0.900	0.600	1.500	0.043
HCTC-2.5-12.5	2.5	12.5	0.011	12.5	1.45	0.815	0.900	0.600	1.500	0.053
HCTC-1.2-16	1.2	6.0	0.006	16.0	1.50	0.815	0.900	0.600	1.530	0.060
HCTC-50-2.3	50	230	0.450	2.30	1.55	0.815	0.900	0.600	1.650	0.050
HCTC-36-2.9	36	167	0.300	2.90	1.55	0.815	0.900	0.600	1.650	0.050
HCTC-7.3-9.3	7.3	30.5	0.032	9.30	1.65	0.815	0.900	0.600	1.650	0.043
HCTC-10-2.4	4.0	16	0.012	14.5	1.70	0.917	1.200	0.700	1.650	0.060
HCTC-2.4-17	2.4	9.6	0.008	17.0	1.70	0.917	1.200	0.700	1.650	0.067
HCTC-1-20	1.0	4.0	0.007	20.0	1.70	0.917	1.200	0.700	1.650	0.067

Custom Versions Available Upon Request



Recommended Pairings of Signal HCTC with HCTI

SIGNAL HCTC	SIGNAL HCTI
HCTC-1-20	HCTI-10-20.0
HCTC-2.4-17	HCTI-18-17.2 HCTI-15-18.0 HCTI-12-19.1
HCTC-1.2-16	HCTI-22-16.4
HCTC-4-14.5	HCTI-27-15.6
HCTC-2.5-12.5	HCTI-33-11.7 HCTI-28-11.2
HCTC-1-10	HCTI-47-10.7 HCTI-56-10.2
HCTC-7.3-9.3	HCTI-56-10.2
HCTC-5-8.9	HCTI-100-7.7
HCTC-2-6.6	HCTI-120-6.7 HCTI-100-7.0
HCTC-8-5.6	HCTI-270-5.5 HCTI-220-5.8
HCTC-1-4.8	HCTI-180-4.8 HCTI-390-5.0 HCTI-150-5.0 HCTI-330-5.2
HCTC-12-4	HCTI-470-3.8
HCTC-5-3.7	HCTI-470-3.8 HCTI-560-3.6 HCTI-680-3.4
HCTC-20-2.9 HCTC-36-2.9	HCTI-680-3.4
HCTC-7-2.8	HCTI-820-2.6
HCTC-10-2.4 HCTC-2.5-2.4	HCTI-1000-2.4
HCTC-30-2.3 HCTC-50-2.3	HCTI-1000-2.4
HCTC-4-1.7	HCTI-1000-2.4



About Signal Transformer

Signal Transformer, a Bel group, has designed and manufactured standard and custom power transformers and magnetics since our founding in 1959 in Brooklyn, NY. Utilizing our global manufacturing, engineering, and logistics capabilities and the resources of our parent company, Bel Fuse Inc. (NASDAQ: BELFA & BELFB), Signal Transformer is positioned to support your needs wherever you are located. At Signal Transformer, we are committed to providing the highest grade magnetics for customers who demand total reliability, on-time delivery and competitive pricing. Year after year, engineers and buyers consistently choose Signal Transformer as their preferred source for magnetics. Since 1959, we've led the magnetics industry with innovation, creativity and reliability.

Bel is headquartered in Jersey City, New Jersey. Founded in 1949, Bel designs, manufactures and markets products that power, protect and connect electronic circuits.



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