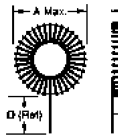
Standex Electronics

Low Cost Inductors for Power Supply & EMI/RFI Filter Applications

"CI" and "CJ" are economical inductors for switching power supply, DC output Filters and other applications that require low radiated emissions.

Style "U"
Vertical P.C. Board Mount

	CIE/CJE	CIL/CJL	CIN/CJN	CIR/CJR	CIT/CJT
A	.650	.900	1.025	1.500	1.800
B	.650	.900	1.025	1.500	1.800
C	.325	.425	.600	.625	.750
D	.187	.187	.187	.187	.187
E	.250	.300	.500	.600	.750

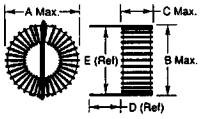


Nominal Current Rating in Amps

Lead Diameter	.5(C)	1(D)	2(E)	3(F)	5(G)
	.020	.025	.032	.040	.050

Style "H"
Horizontal P.C. Board Mount

	CIE/CJE	CIL/CJL	CIN/CJN	CIR/CJR	CIT/CJT
A	.650	.900	1.025	1.500	1.800
B	.650	.900	1.025	1.500	1.800
C	.325	.425	.600	.625	.750
D	.187	.187	.187	.187	.187
E	.600	.750	.900	1.100	1.650



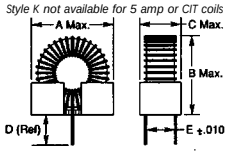
Nominal Current Rating in Amps

Lead Diameter	.5(C)	1(D)	2(E)	3(F)	5(G)
	.020	.025	.032	.040	.050

Style "K"
VerticalP.C. Board KlipMount

	CIE/CJE	CIL/CJL	CIN/CJN	CIR/CJR
A	.687	.900	.975	1.500
B	.700	.950	1.125	1.550
C	.500	.500	.625	.750
D	.187	.187	.187	.187
E	.300	.300	.450	.500

Style K not available for 5 amp or CIT coils

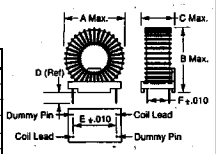


Nominal Current Rating in Amps

Lead Diameter	.5(C)	1(D)	2(E)	3(F)
	.020	.025	.032	.040

Style "T"
Vertical Four Pin Mount

	CIE/CJE	CIL/CJL	CIN/CJN	CIR/CJR	CIT/CJT
A	.765	.900	1.100	1.500	1.750
B	.825	1.075	1.100	1.560	1.860
C	.440	.650	.650	.650	.850
D	.187	.187	.187	.187	.187
E	.600	.800	.800	.800	.900
F	.250	.400	.400	.400	.600



Nominal Current Rating in Amps

Lead Diameter	.5(C)	1(D)	2(E)	3(F)	5(G)
Series CIE	.040	.040	.040	.040	.050
Series CIL, CIN CIR and CIT	.050	.050	.050	.050	.050

CI series inductors are designed primarily for switching power supply applications up to 75 KHz

Series	Nominal current* / Maximum current*	.5 Amps(C) / 1Amp	1 Amp (D) / 1.8 Amps	2 Amps (E) / 2.5 Amps	3 Amps (F) / 4.9 Amps	5 Amps (G) / 7 Amps
CIE	Minimum Inductance	40 µH	20 µH	6 µH	1 µH	1 µH
	Typical part number	CIE40UCU	CIE20UDU	CIE6UEU	CIE1UFU	CIE1UGU
	Maximum Inductance	150 µH	80 µH	40 µH	6 µH	2 µH
	Typical part number	CIE 150 UCU	CIE80UDU	CIE40UEU	CIE6UFU	CIE2UGU
CIL	Maximum Inductance	500 µH	300 µH	100 µH	20 µH	8 µH
	Typical part number	CIL 500 UCU	CIL300UDU	CIL100UEU	CIL20UFU	CIL8UGU
CIN	Maximum Inductance	2 mH	500 µH	350 µH	65 µH	35 µH
	Typical part number	CIN2MCU	CIN500UDU	CIN350UEU	CIN65UFU	CIN35UGU
CIR	Maximum Inductance	4.7 mH	1.2 mH	500 µH	100 µH	50 µH
	Typical part number	CIR4R&MCU	CIR1R2MDU	CIR500UEU	CIR100UFU	CIR50UGU
CIT	Maximum Inductance	5 mH	1.5 mH	1 mH	350 µH	200 µH
	Typical part number	CIT5MCU	CIT1R5MDU	CIT1MEU	CIT350UFU	CIT200UGU

CJ series inductors are designed primarily for higher frequency switching power supply applications from 50 to 500 Khz

Series	Nominal current* / Maximum current*	.5 Amps(C) / 1Amp	1 Amp (D) / 1.8 Amps	2 Amps (E) / 2.5 Amps	3 Amps (F) / 4.9 Amps	5 Amps (G) / 7 Amps
CJE	Minimum Inductance	40 µH	20 µH	6 µH	1 µH	1 µH
	Typical part number	CJE40UCU	CJE20UDU	CJE6UEU	CJE1UFU	CJE1UGU
	Maximum Inductance	150 µH	80 µH	40 µH	6 µH	2 µH
	Typical part number	CJE 150 UCU	CJE80UDU	CJE40UEU	CJE6UFU	CJE2UGU
CJL	Maximum Inductance	500 µH	300 µH	100 µH	20 µH	8 µH
	Typical part number	CJL 500 UCU	CJL300UDU	CJL100UEU	CJL20UFU	CJL8UGU
CJN	Maximum Inductance	2 mH	500 µH	350 µH	65 µH	35 µH
	Typical part number	CJN2MCU	CJN500UDU	CJN350UEU	CJN65UFU	CJN35UGU
CJR	Maximum Inductance	4.7 mH	1.2 mH	500 µH	100 µH	50 µH
	Typical part number	CJR4R&MCU	CJR1R2MDU	CJR500UEU	CJR100UFU	CJR50UGU
CJT	Maximum Inductance	5 mH	1.5 mH	1 mH	350 µH	200 µH
	Typical part number	CJT5MCU	CJT1R5MDU	CJT1MEU	CJT350UFU	CJT200UGU

*** Nominal current carrying capacity is the typical use DC current. Maximum current is the maximum DC current that the component can withstand continuously with a less than 40ºC temperature rise at .1amp A.C. and 20 KHz. Note: A.C. current affects temperature rise in the higher inductance parts.**

Inductance tolerance is ± 15%. **Dimensions are in inches.**

Build Your Own Standard Part Number!

To order, please specify the series, inductance, current rating, and mounting style desired per the part number breakdown shown. For the most economical part, you may choose any inductance desired subject to the maximum shown from the tables shown below for a given series and current rating.

The maximum inductances shown represent the most economical configuration. Higher inductances may be available for a given package size. Please call Standex to discuss your specific requirements.

CIL **35** **U** **E** **U**

- **Series** — CIL
- **Inductance** (A decimal point is represented as an "R") — 35
- **Inductance Unit** U=Micro Henry M=Milli Henry — U
- **Nominal Current Rating** C = .5 amp, D = 1 amp, E = 2 amps, F = 3 amps, G = 5 amps — E
- **Mounting Style** (see options) — U

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a Standex company

ISO 9000/QS 9000 REGISTERED

Custom inductors and transformers are standard at Standex Electronics. Please call or write with any questions or requirements you may have.

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