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Designer's Kits



To help simplify your prototyping, we offer low-cost Designer's Kits for many of our products. Each contains an assortment of in-stock values along with detailed product specifications. We even provide free refills for parts you use most often.

Coilcraft Designer's Kits can save you hours of searching or winding your own. They'll help you zero in on one of our off-the-shelf parts or give us a starting point for a custom design.

To order call **800-322-2645** or place your order on-line at <http://order.coilcraft.com>.



QUANTITY DISCOUNTS

10% off any combination of 3 or more
20% off any combination of 5 or more
30% off any combination of 7 or more

SMT Products

RF Chip Inductors

NEW! **0201CS Chip Inductors**

Inductance: 0.5 nH - 14 nH
 26 values (20 of each)
Kit C368 \$70 (5% tolerance)

NEW! **0302CS Chip Inductors**

Inductance: 0.67 nH - 34 nH
 34 values (20 of each)
Kit C370 \$90 (5% tolerance)

NEW! **0402AF Chip Inductors**

Inductance: 20 nH - 560 nH
 20 values (20 of each)
Kit C397 \$55 (5% tolerance)

0402CS Chip Inductors

Inductance: 1 nH - 10 nH
 23 values (20 of each)
Kit C328A \$55 (5% tolerance)
Kit C328A-2 \$75 (2% tolerance)

Inductance: 11 nH - 120 nH

25 values (20 of each)
Kit C328B \$55 (5% tolerance)
Kit C328B-2 \$75 (2% tolerance)

NEW! **0402HP Chip Inductors**

Inductance: 2 nH - 13 nH
 22 values (20 of each)
Kit C403A \$60 (5% tolerance)
Kit C403A-2 \$80 (2% tolerance)
 Inductance: 15 nH - 82 nH
 21 values (20 of each)
Kit C403B \$60 (5% tolerance)
Kit C403B-2 \$80 (2% tolerance)

0402PA High Current Chip Inductors

Inductance: 0.78 nH - 8.2 nH
 7 values (20 of each)
Kit C373 \$40 (5% tolerance)

0403HQ High Q Chip Inductors

Inductance: 1.9 nH - 8 nH
 11 values (20 of each)
Kit C371 \$40 (5% tolerance)

0603CS Chip Inductors

Inductance: 1.6 nH - 30 nH
 26 values (10 of each)
Kit C324A \$60 (5% tolerance)
Kit C324A-2 \$80 (2% tolerance)

Inductance: 33 nH - 390 nH

22 values (10 of each)
Kit C324B \$60 (5% tolerance)
Kit C324B-2 \$80 (2% tolerance)

0603HC Chip Inductors

Inductance: 1.6 nH - 24 nH
 11 values (10 of each)
Kit C339 \$40 (5% tolerance)

0603LS Chip Inductors

Inductance: 47 nH - 10,000 nH
 29 values (10 of each)
Kit C347 \$70 (5% tolerance)

0604HQ High Q Chip Inductors

Inductance: 1.15 nH - 10.4 nH
 7 values (10 of each)
Kit C351 \$40 (5% tolerance)

0805CS Chip Inductors

Inductance: 2.8 nH - 820 nH
 37 values (10 of each)
Kit C303 \$95 (5% tolerance)
Kit C303-2 \$115 (2% tolerance)

0805HQ Chip Inductors

Inductance: 2.5 nH - 51 nH
 12 values (10 of each)
Kit C325 \$40 (5% tolerance)

0805HT Chip Inductors

Inductance: 1.8 nH - 500 nH
 27 values (10 of each)
Kit C321 \$70 (5% tolerance)

0805LS Chip Inductors

Inductance: 0.078 μ H - 27 μ H
 19 values (10 of each)
Kit C354 \$45 (5% tolerance)

1008CS Chip Inductors

Inductance: 10 nH - 8200 nH
 39 values (10 of each)
Kit C300 \$100 (5% tolerance)
Kit C300-2 \$120 (2% tolerance)

1008HQ High Q Chip Inductors

Inductance: 3 nH - 100 nH
 14 values (10 of each)
Kit C323 \$40 (5% tolerance)
Kit C323-2 \$60 (2% tolerance)

1008HT Chip Inductors

Inductance: 3.3 nH - 560 nH
 26 values (10 of each)
Kit C322 \$55 (5% tolerance)

1008LS Chip Inductors

Inductance: 1.2 μ H - 10 μ H
 12 values (10 of each)
Kit C336 \$40 (5% tolerance)

1206CS Chip Inductors

Inductance: 3.3 nH - 1.2 μ H
 31 values (10 of each)
Kit C320 \$80 (5% tolerance)

1812LS Chip Inductors

Inductance: 12 μ H - 1000 μ H
 24 values (10 of each)
Kit C314 \$60 (5% tolerance)

Air Core Inductors

Micro Spring™ Air Core Inductors

Inductance: 1.65 nH - 12.55 nH
 9 values (12 of each)
Kit C308 \$40 (5% tolerance)
Kit C308-2 \$60 (2% tolerance)

Mini Spring™ Air Core Inductors

Inductance: 2.5 nH - 43 nH
 10 values (12 of each)
Kit C302 \$40 (5% tolerance)
Kit C302-2 \$60 (2% tolerance)

Midi Spring® Air Core Inductors

Inductance: 22 nH - 120 nH
 10 values (12 of each)
Kit C318 \$40 (5% tolerance)
Kit C318-2 \$60 (2% tolerance)

Maxi Spring™ Air Core Inductors

Inductance: 90 nH - 558 nH
 12 values (8 of each)
Kit C319 \$40 (5% tolerance)
Kit C319-2 \$60 (2% tolerance)

Low Profile Mini Spring™ Air Core Inductors

Inductance: 5.5 nH - 27 nH
 7 values (10 of each)
Kit C394 \$45 (5% tolerance)
Kit C394-2 \$70 (2% tolerance)

RFID Transponder Coils

RFID Transponder Coils 5315TC Series

Inductance: 0.37 mH - 7.2 mH
 14 values (4 of each)
Kit C369 \$80

RFID Transponder Coils 4308RV Series

Inductance: 0.37 mH - 9 mH
 16 values (4 of each)
Kit C383 \$80

EMI/RFI Filters

Common Mode Data Line EMI Filters

Attenuation: 15dBm, 1.5-300MHz
 DC current capacity: 100, 500 mA
 17 values (4 of each)
Kit D303 \$75

USB 2.0

Common Mode Filters
 0603, 0805, 1206 sizes
 22 values (10 of each)
Kit C384 \$55

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Coilcraft Designer's Kits

RF Transformers

TTWB Series Wideband RF Transformers

Ohm ratio: 1 to 1, 1.5, 2, 4 and 16
 Frequency range: 0.03–700MHz
 25 values (3 of each)
 Kit C329 \$90

LC Filters

Low Pass LC Filters

Poles: 3
 Cutoff frequencies: 15–2100MHz
 Impedance: 50 Ohms
 14 surface mount filters (3 of each)
 Kit D302 \$60

Power Inductors

0603PS Series Power Chip Inductors

Inductance 0.78µH–47µH
 Current: 1.3–0.18 Amps
 16 values (6 of each)
 Kit C346 \$50

0805PS Series Power Chip Inductors

Inductance 1.0µH–330µH
 Current: 1.6–0.11 Amps
 20 values (6 of each)
 Kit C348 \$60

1008PS Series Power Chip Inductors

Inductance 1.0µH–1000µH
 Current: 2.0–0.11 Amps
 26 values (6 of each)
 Kit C341 \$80

1812PS Series Power Chip Inductors

Inductance 1.0µH–1000µH
 Current: 2.7–0.22 Amps
 28 values (6 of each)
 Kit C343 \$80

DO1605T Series Power Wafer® Inductors

Inductance: 1µH–1000µH
 Current: 2.3–0.08 Amps
 19 values (3 of each)
 Kit C353 \$60

DO1606T Series Power Wafer® Inductors

Inductance: 1µH–1000µH
 Current: 2.3–0.08 Amps
 19 values (3 of each)
 Kit C338 \$60

DO1607B Series Backlight Inductors

Inductance: 1mH–6.8mH
 Current: 150–60mAmps
 6 values (3 of each)
 Kit C335 \$40

DO1608C Series Power Inductors

Inductance: 1µH–1000µH
 Current: 2.9–0.07 Amps
 20 values (3 of each)
 Kit C377 \$60

DO1813H Series High Current Inductors

Inductance: 0.18µH–48.1µH
 Current: 10.0–0.72 Amps
 14 values (3 of each)
 Kit C331 \$40

DO2010 Series Power Inductors

Inductance: 0.5µH–220µH
 Current: 1.5–0.08 Amps
 20 values (5 of each)
 Kit C399 \$55

DO3308P Series Power Inductors

Inductance: 4.7µH–1000µH
 Current: 3.2–0.23 Amps
 15 values (3 of each)
 Kit C309 \$45

DO3314 Series Power Wafer® Inductors

Inductance: 1µH–33µH
 Current: 1.7–0.4 Amps
 10 values (3 of each)
 Kit C358 \$40

DO3316H Series High Current Inductors

Inductance: 0.12µH–4.7µH
 Current: 17–4.8 Amps
 10 values (3 of each)
 Kit C326 \$40

DO3316P Series Power Inductors

Inductance: 1µH–3300µH
 Current: 6.8–0.17 Amps
 21 values (3 of each)
 Kit C378 \$60 (20% tolerance)

NEW! DO3316T Series High Temp Inductors

Inductance: 0.33µH–470µH
 Current: 16–0.5 Amps
 33 values (3 of each)
 Kit C396 \$100

DO3340P Series Power Inductors

Inductance: 10µH–1000µH
 Current: 3.5–0.1 Amps
 13 values (3 of each)
 Kit C310 \$40

DO5010H Series High Current Inductors

Inductance: 0.78µH–1000µH
 Current: 15–0.56 Amps
 22 values (3 of each)
 Kit C355 \$65

DO5022P Series Power Inductors

Inductance: 1µH–1000µH
 Current: 8.6–0.56 Amps
 18 values (3 of each)
 Kit C311 \$55

DS1608B Series Backlight Inductors

Inductance: 0.1mH–10mH
 Current: 220–10mAmps
 13 values (3 of each)
 Kit C334 \$40

DS1608C Series Shielded Power Inductors

Inductance: 1µH–10,000µH
 Current: 1.4–0.017 Amps
 25 values (3 of each)
 Kit C315 \$75

DS3316P Series Shielded Power Inductors

Inductance: 1µH–1000µH
 Current: 5.0–0.17 Amps
 17 values (3 of each)
 Kit C316 \$50

DS5022P Series Shielded Power Inductors

Inductance: 10µH–1000µH
 Current: 3.9–0.53 Amps
 20 values (3 of each)
 Kit C317 \$55

LPO2506 Series Power Wafer® Inductors

Inductance: 4.7µH–1000µH
 Current: 1.9–0.16 Amps
 15 values (3 of each)
 Kit C332 (InBoard®) \$60
 Kit C333 (On-board) \$60

LPO3010 Series Power Wafer® Inductors

Inductance: 1µH–22µH
 Current: 1.7–0.37 Amps
 13 values (3 of each)
 Kit C388 \$40

LPO3310 Series Power Wafer® Inductors

Inductance: 0.3µH–47µH
 Current: 2.8–0.25 Amps
 14 values (3 of each)
 Kit C375 \$40

LPO4812 Series Power Wafer® Inductors

Inductance: 1µH–220µH
 Current: 0.85–0.24 Amps
 16 values (3 of each)
 Kit C357 \$45

LPO4815 Series Power Wafer® Inductors

Inductance: 1µH–220µH
 Current: 1.6–0.11 Amps
 18 values (3 of each)
 Kit C376 \$55

LPO6013 Series Power Wafer® Inductors

Inductance: 1µH–1000µH
 Current: 1.5–0.13 Amps
 22 values (3 of each)
 Kit C352 \$65

LPO6610 Series Power Wafer® Inductors

Inductance: 1.2µH–330µH
 Current: 1.7–0.13 Amps
 16 values (3 of each)
 Kit C367 \$50

NEW! LPS30xx Shielded Power Wafer® Inductors

Parts from LPS3008, 3010, 3015
 Inductance: 0.68µH–33µH
 Current: 2.0–0.26 Amps
 29 values (3 of each)
 Kit C392 \$100

NEW! LPS3314 Shielded Power Wafer® Inductors

Inductance: 1µH–1500µH
 Current: 2.2–0.07 Amps
 28 values (3 of each)
 Kit C330 \$85

NEW! LPS40xx Shielded Power Wafer® Inductors

Parts from LPS4012, LPS4018
 Inductance: 0.56µH–33µH
 Current: 4.8–0.37 Amps
 19 values (3 of each)
 Kit C401 \$65

NEW! LPS4414 Shielded Power Wafer® Inductors

Inductance: 0.3µH–3300µH
 Current: 5.6–0.072 Amps
 35 values (3 of each)
 Kit C340 \$105

NEW! LPS High L Shielded Power Wafer® Inductors

Parts from LPS30xx, LPS40xx
 Inductance: 220µH–3300µH
 28 values (3 of each)
 Kit C402 \$95

NEW! LPS5015 Shielded Power Wafer® Inductors

Inductance: 1µH–4700µH
 Current: 2.65–0.11 Amps
 32 values (3 of each)
 Kit C350 \$95

NEW! LPS6225 Shielded Power Wafer® Inductors

Inductance: 1.2µH–10,000µH
 Current: 1.65–0.065 Amps
 28 values (3 of each)
 Kit C349 \$85

NEW! LPS6235 Shielded Power Wafer® Inductors

Inductance: 6.8µH–10,000µH
 Current: 1.9–0.11 Amps
 31 values (3 of each)
 Kit C345 \$95

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Coilcraft Designer's Kits

ME3220 Series Power Inductors

Inductance: 1 μ H - 100 μ H
 Current: 2.7 - 0.27 Amps
 21 values (3 of each)
 Kit C386 \$65

MLC Series High Current Inductors

Inductance: 0.36 μ H - 4.5 μ H
 Current: 37 - 11.5 Amps
 22 values (3 of each)
 Kit C387 \$65

MOS6020 Series Shielded Power Inductors

Inductance: 2.2 μ H - 470 μ H
 Current: 4.1 - 0.29 Amps
 16 values (3 of each)
 Kit C359 \$50

NEW! MSD1278 Series Shielded Coupled Inductors

Inductance: 4.7 μ H - 4000 μ H
 Current: 7.4 - 0.60 Amps
 29 values (3 of each)
 Kit C400 \$95

MSS1038 Series Shielded Power Inductors

Inductance: 1.0 μ H - 1000 μ H
 Current: 10.0 - 0.45 Amps
 31 values (3 of each)
 Kit C391 \$100

MSS1260 Series Shielded Power Inductors

Inductance: 1.0 μ H - 1000 μ H
 Current: 8.0 - 0.68 Amps
 33 values (3 of each)
 Kit C360 \$100

MSS1278 Series Shielded Power Inductors

Inductance: 1.4 μ H - 1000 μ H
 Current: 10.0 - 0.68 Amps
 30 values (3 of each)
 Kit C380 \$90

MSS4020 Series Shielded Power Inductors

Inductance: 3.3 μ H - 100 μ H
 Current: 1.1 - 0.17 Amps
 18 values (3 of each)
 Kit C381 \$55

MSS5131 Series Shielded Power Inductors

Inductance: 2.2 μ H - 390 μ H
 Current: 3.3 - 0.38 Amps
 26 values (3 of each)
 Kit C362 \$80

MSS6122 Series Shielded Power Inductors

Inductance: 4.7 μ H - 100 μ H
 Current: 2.3 - 0.5 Amps
 17 values (3 of each)
 Kit C363 \$50

MSS6132 Series Shielded Power Inductors

Inductance: 4.7 μ H - 100 μ H
 Current: 3.1 - 0.69 Amps
 17 values (3 of each)
 Kit C364 \$50

MSS7341 Series Shielded Power Inductors

Inductance: 3.3 μ H - 100 μ H
 Current: 3.5 - 0.65 Amps
 18 values (3 of each)
 Kit C385 \$55

SER1360 Series High Current Inductors

Inductance: 0.33 μ H - 10 μ H
 Current: 12.5 - 3.5 Amps
 8 values (4 of each)
 Kit C365 \$65

SER1590 Series High Current Inductors

Inductance: 0.3 μ H - 1 μ H
 Current: 32 - 27 Amps
 7 values (4 of each)
 Kit C366 \$60

SER2000 Series High Current Inductors

Inductance: 0.3 μ H - 2 μ H
 Current: 100 - 27 Amps
 9 values (2 of each)
 Kit C374 \$60

SLC7530 Series Shielded Power Inductors

Inductance: 0.05 μ H - 0.40 μ H
 Current: 40 - 17 Amps
 8 values (3 of each)
 Kit C379 \$40

Power Transformers

CST Series SMT Current Sensors

Eight turns ratios
 Two different pinouts
 16 values (2 of each)
 Kit C389 \$50

PoE 300F Series 30 Watt Transformers

3.3 - 24 Volt output
 5 values (3 of each)
 Kit C398 \$50

PoE EP Series Transformers

3 Watt, 7 Watt and 13 Watt versions
 3.3, 5.0 and 12 Volt output
 9 values (2 of each)
 Kit C395 \$50

PoE Series Transformers

6 Watt and 13 Watt versions
 1.8 - 12 Volt output
 10 values (2 of each)
 Kit C372 \$50

Miniature PoE Transformers

6 Watt, 1.8 - 12 Volt output
 Continuous/discontinuous modes
 10 values (2 of each)
 Kit C382 \$50

Planar Transformer Prototyping Kit

Design and build your own
 prototypes with no tooling costs
 and no waiting.
 Kit C356 \$125

Leaded Products

RF Inductors

132, 148 Series Horizontal Mount Inductors

Tunable and fixed
 Inductance: 14 nH - 710 nH
 33 values (3 of each)
 Kit M304 \$60

"Slot Seven" 7 mm Tunable Inductors

Inductance: 0.094 μ H - 275 μ H
 39 values (3 of each)
 Kit M106 \$60

"Slot Ten" 10 mm Tunable Inductors

Inductance: 0.7 μ H - 1143 μ H
 18 shielded, 18 unshielded
 (3 of each)
 Kit M100 \$60

"Unicoil" 7/10 mm Tunable Inductors

Inductance: 0.0435 μ H - 1.5 μ H
 49 shielded, 49 unshielded
 (2 of each)
 Kit M302 \$60

"Unicoil" 5 mm Tunable Inductors

Inductance: 9 nH - 281 nH
 19 Shielded, 19 unshielded
 (2 of each)
 Kit M305 \$60

EMI/RFI Filters

Common Mode Data Line EMI Filters

Attenuation: 15 dBm, 1.5 - 300 MHz
 2, 3, 4, 8 and 10 line
 DC current capacity: 100, 500 mA
 Surface mount and leaded
 17 values (4 of each)
 Kit D303 \$75

Power Inductors

Common Mode Line Chokes

Inductance: 731 μ H - 10.5 mH
 Current: 8.1 - 0.25 Amps rms
 8 styles (14 total pieces)
 Kit P402 \$100

Current Sensors

Sensing range: 0.02 - 35 Amps
 Frequency response: 20 - 50+ kHz
 Transformer and sensor-only
 versions
 10 styles (17 total pieces)
 Kit P403 \$50

Base/Gate Driver Transformers

Inductance: 1.5 mH min.
 Frequency: 10 - 250 kHz
 2 single, 2 double section
 (2 of each)
 Kit P204 \$50

DC1012 Series Power Inductors

Inductance: 10 μ H - 330 μ H
 Current: 3.5 - 0.6 Amps
 19 styles (3 of each)
 Kit P410 \$85

PCV Series Power Filter Chokes

Inductance: 4.7 μ H - 270 μ H
 Current: 3, 5, 10 Amps
 18 styles (48 total pieces)
 Kit P405 \$75

PCH27, 45 Series Axial Lead Power Chokes

Inductance: 3.9 μ H - 82 mH
 Current: 4.3 - 0.04 AC Amps
 30 values (2 of each)
 Kit P409 \$150

Mag Amp Toroids

Current: 1 and 5 Amps
 Volt-time product: 93 - 186 V- μ sec
 6 styles (2 of each)
 Kit P206 \$100

LC Filters

Low Pass LC Filters

Poles: 3 and 7
 Cutoff frequencies: 0.30 - 500 MHz
 Impedance: 50 Ohms
 Six 7-pole, six 3-pole filters
 (2 of each)
 Kit D301 \$60

QUANTITY DISCOUNTS

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30% off any combination of 7 or more

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