COILCRAFT MAGNETICS
FOR IC REFERENCE DESIGNS – 2009

Coilcraft

07/2009

COILCRAFT MAGNETICS
FOR AVNET MEMEC SUPPLIER REFERENCE DESIGNS

Avnet Memec is proud to be a distributor for Coilcraft as well as several leading semiconductor firms, many of whom require high performance inductors and transformers. These suppliers include:

Coilcraft is frequently listed in their reference designs as the preferred supplier of magnetics. There is a good reason: no other company offers such a wide variety of inductors, transformers and filters for power, RF and dataline applications. In a worldwide survey, Coilcraft was voted the number one magnetics company that engineers would recommend to their friends, based on the many things that Coilcraft does to make the engineer's job easier.

- Fast, free product samples for evaluation
- An extremely easy-to-use web site
- Powerful online product selection tools
- Responsive technical support
- Low cost Designer's Kits containing every value in a product family

This brochure lists the Coilcraft magnetics recommended in semiconductor reference designs and application notes. You may also want to use the new 'IC Reference Look-up' tool on Coilcraft's web site (see panel at right), which lists all the Coilcraft products that can work with supplier ICs, including many new products that were not available when the IC was first introduced. This tool is available at **www.coilcraft.com/ic.**

Other (non-Avnet Memec) suppliers with approved Coilcraft magnetics include:
Analog Devices – Fairchild – Freescale – Infineon – Intel – IR – Intersil – Linear Tech – Microchip – National Semi – On Semi – ST Micro – TI – Xilinx

Coilcraft is a privately held company, founded in 1945 as a custom coil maker. Today they produce inductors for telecommunications, computers, instrumentation and the consumer electronics markets. Many are standard, off-the-shelf products, and basic product lines include:

- Surface mount inductors
- Surface mount power inductors
- xDSL magnetics
- Tunable and fixed RF inductors
- EMI filters
- High frequency power magnetics

COILCRAFT DESIGN
SUPPORT TOOLS

www.coilcraft.com/tools

Select the right inductor

RF & power inductor finders: Get a sortable list of products that fit your application

SM power inductor selection chart: A visual guide to power inductor size and performance

LED Design Center: Tools to speed the design and optimise the performance of your LED driver

Converter inductor selector: Input your parameters and get detailed inductor specifications

Flyback transformer selector: A structured listing of Coilcraft off-the-shelf flyback transformers

Compare & analyse inductors

RF inductor comparison tool: Graph the Q, L, Z and ESR of up to 4 inductors

Core & winding loss: Compare the core and DCR losses of up to 4 inductors under your conditions

Coupled inductor core & winding loss: Calculate losses and compare with other coupled inductors

Other helpful tools

SPICE models and S-parameters: Simulate inductor performance in your circuit

IC reference lookup: Get a list of Coilcraft parts suitable for use with 1000's of IC reference designs

Competitor cross-reference: Find Coilcraft alternatives to other manufacturers' part numbers

Application notes: Helpful information on choosing and using our parts

Evaluation samples: Request free components for your prototype

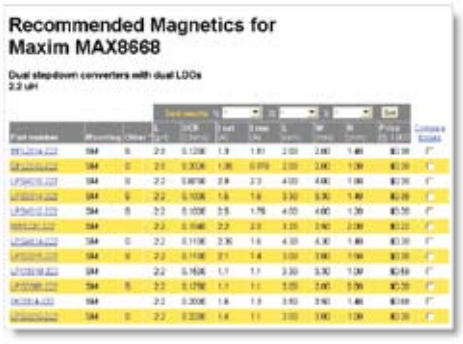
Designer's Kits: Purchase kits with every value in a product family

Coilcraft's online tool shows you even more IC magnetics options

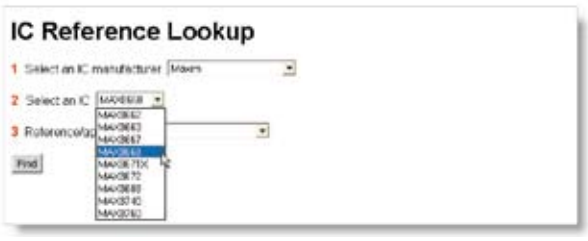
Application engineers have recommended Coilcraft magnetics on dozens of reference designs. Since those application notes were written, Coilcraft has introduced dozens of new inductor families with even better performance and lower costs. To help engineers with the newest inductor designs, Coilcraft has introduced a new selection tool on its web site: **www.coilcraft.com/ic**

Simply select the IC you're using, and you will see a list of all the Coilcraft inductors that match the electrical specifications and size of the part shown on the reference design. The tool suggests appropriate Coilcraft inductors even if they were not on the original application note.

Step 1 Select the IC manufacturer and then the IC number.

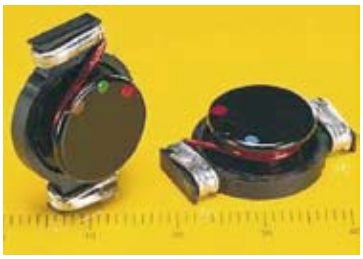


Step 2 Choose from a list of all Coilcraft products that match the electrical specifications and dimensions of the inductor on the application note.



COILCRAFT MAGNETICS RECOMMENDED
FOR MAXIM IC DEVICES

DO3340 SM Power Inductor


DO5022HC Series CM Power Inductors

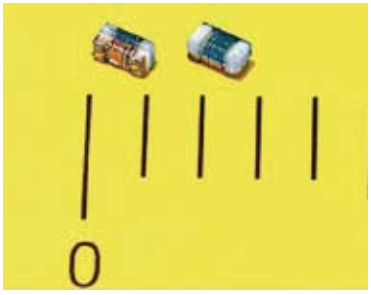
MSS1278 Series Shielded Surface Mount Power Inductors

Please check for updated magnetics at **www.coilcraft.com/ic**

Maxim	Coilcraft Part Number(s)
MAX180 Data Acquisition System	L1 - PCH-27-334
MAX250/MAX251 RS-232 Drivers/Receivers	1:1 Transformer T6437-D
MAX253 Transformer Driver for RS-485	1CT:1 - S5394-C 1CT:1.3CT - Q4470-C 1CT:2.1CT - U6982-C 1CT:5CT - S5499-D
MAX445 CRT Display Driver	L1 - 1008CS-220XKBC L2 - 1008CS-220XKBC L3 - 1008CS-390XKBC
MAX608 Step-Up DC-DC Controller	DO3316 Series DO3340 Series
MAX629 LCD Bias Supply	DO3340P-473
MAX639 / MAX640 Step Down Regulator	DO3316P-104
MAX649 / MAX651 / MAX652 Step Down	DO3316P-223
MAX668 EV Kit Adj Freq Step-Up	L1 - DO5022P - 223ML
MAX686 LCD Bias Supply	DO3308P-223
MAX713 Switch Mode Evaluation kit	DO3340P-224
MAX731EV Evaluation kit	L1- PCH-27-223
MAX742 Switch-Mode Regulator	DO5022P-473
MAX745 Switch-Mode Lithium-Ion Battery-Charger	DO3340-224
MAX747 Step-Down P-Channel DC-DC Controller	L1 - DO3316P-333
MAX756 Step Up Regulator	DT3316P-223
MAX767 Step Down Regulator 7 A Converter	DO3316P-332 DO3316P-472
MAX769 / MAX757 Step-up / down	DT1608C-223, -683
MAX782 Power Management	Q4421-A
MAX782 / MAX783 Power Management	DT3316P-220
MAX783 Power Management	Q4418-A
MAX786 Power Management	DO3316P-104
MAX796 / MAX797 / MAX799 Step Down High Efficiency Buck Regulators	15 A Pentium Pro - DO5022H-152 20 A Pentium Pro - DO5022H-102 MAX797 evaluation kit - DO3316P-103 3.3 V, 4 A application - DO3316P-472
MAX831 / MAX832 / MAX833 EV KIT	DO3316P-104
MAX845 Isolated Transformer Driver for PCMCIA	1CT:1.3CT - Q4470-C S5504-A (Meets electrical performance but not PCMCIA height) (W7703-A meets IEC950 isolation requirement in an EE8.8 core size.)
MAX847 1-Cell, Step-Up Two-Way Pager System IC	DT1608C-223
MAX856 MAX859 Step-Up DC-DC Converters	DT1608C-223 PCH27-223 (Through hole)
MAX866 / MAX867 Boost Converter	DO1608C-334 DT1608C-334 DO3316C-334 DT3316P-334
MAX886 Buck Regulator	DO1608C-334
MAX887H PWM Step Down	DO3308P-333
MAX1011 VCO for A-D Converter	L1 - 1008CS-221XKBC

Maxim	Coilcraft Part Number(s)
MAX1479 ASK/FSK Transmitter	L1 - 0603CS-27NXJL (315 MHz) L1 - 0603CS-22NXJL (433,92 MHz)
MAX1610 CCFL Driver	DO3316P-333
MAX1611 CCFL Driver	DO3308P-223
MAX1612 Bridge-Battery Backup Controller for Notebook	DS1608C-223
MAX1624 Step-Down for Pentium Pro, Pentium II, K6	DO5022P-501HC
MAX1626 Step-Down PWM fixed output	DO3316P-223
MAX1627 Step-Down PWM adjustable output	L1 - DO3316P-472 DO3316P-103 DO5022P-222HC
MAX1636 Low-Voltage Step-Down Controller	DO3340P-683
MAX1637 Switch-Mode Controller	L1 - DO3316P-103ML (2 A load) L1 - DO5022H-222ML (7 A Ev Kit)
MAX1640 / MAX1641 Switch-Mode Current Sources	DO3316P
MAX1645 Battery Charger	DO3340P-223 DO5022P-223
MAX1647 / MAX1648 Smart Battery Charger, Multi Chemistry	DO3316P-223
MAX1649 / MAX1651 DC-DC Step Down	DO3316 Series DO3340 Series
MAX1652 Step-Down PWM	DO3316P-153
MAX1653 Step-Down PWM	DO3316 Series DO3340 Series
MAX1654 Step-Down PWM	DO3316 Series DO3340 Series
MAX1655 Step-Down PWM	DT3316P-220
MAX1667 Smart battery charger	L1 - DO5022P-333
MAX1674 / MAX1675 / MAX1676 Step-Up DC-DC Converters (low Iq)	DT1608 Series DO1608 Series
MAX1678 Step-Up DC-DC converter	DS1608C-473 DT1608C-223
MAX1692 PWM Step-Up DC-DC converter	DO1608C-103
MAX1700 / MAX1701 Step-Up Converter	DO3316P-103 DO3316 Series DO1608 Series DT3316 Series DO3308 Series
MAX1703 Boost Converter	DO3316P-472
MAX1705 Boost Converter	DO3316P-103
MAX1706 Boost Converter	DO3316P-103
MAX1709 4 amp Step-Up DC-DC Converter	DO3316H-102ML
MAX1714 PWM Controller	DO33116P-682ML
MAX1717 Step-Down Controller	X8357-A
MAX1748 Triple-output DC-DC Converter	L1 - LPO2506IB-682
MAX1760 DC-DC Converter	DO1606T-332 LPT3305 DS3316P
MAX1771 Step Up Controller	DO3316 Series DO3340 Series
MAX1820 / MAX1821 DC-DC Buck regulator	DO1606T-472
MAX1832 / MAX1833 / MAX 1834 / MAX 1835 Step-up Converter	DS1608C-103ML DO1606T-103ML

DO1608 Series SM Power Inductors

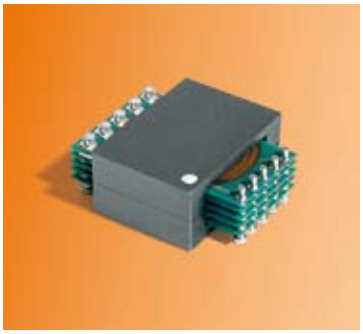


0402CS Surface Mount Inductors

DO3316 Series SM Power Inductor

DS1608 Series Shielded Power Inductors

Miniature Surface Mount Transformers

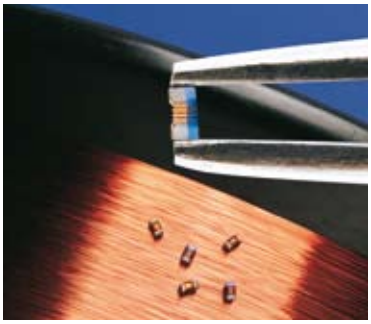

Planar transformers

Maxim	Coilcraft Part Number(s)	
MAX 1846 PWM Inverting controller for switch-mode power supply	DS5022P-223ML	
MAX1864 Auxiliary linear regulator	L1 - DO5022H-332ML	
MAX1864 / MAX1865	Coilcraft listed as inductor supplier	
MAX1966 / MAX1967	Coilcraft listed as inductor supplier	
MAX2027 IF Digitally controlled variable-gain amplifier	L1, L3 - 0603LS-331 L2 - 0603LS-101	L4, L5 - 0603LS-681
MAX2055 Digitally controlled variable-gain amplifier	L1 - 0805CS-331 L2 - 1008CS-681	
MAX2102/MAX2105 Direct-conversion tuner ICs for digital DBS applications	1008CS911XJB 1008CS621XJB	1008CS391XJB
MAX2232 / MAX2233 250 mW Power amplifiers	1606-6	
MAX2251 Low-voltage linear power amplifier	L2 - 1606-7	
MAX2264 / MAX2265 / MAX2266 Power amplifiers	1606-6J L2 - 1606-6G	
MAX2267 / MAX2268 / MAX2269 Power amplifiers	1606-6J L2 - 1606-6G	
MAX2309 IF receivers for N-CDMA snd W-CDMA	L5 - 0805CS-820XKBC	
MAX2310 / MAX2314 RF receivers	L1 - 0805CS-680XJBC L2 - 0805CS-220XJBC L3 - 0805CS-102XKBC	L4 - 0805CS-181TKBC L5 - 0805CS-271XKBC
MAX2312 RF receivers MAX2316 RF receivers	L2 - 0805CS-180TJBC L4 - 0805CS-181TKBC	L2 - 0805CS-680TJBC L4 - 0805CS-681TKBC
MAX2320 / MAX2321 / MAX2322 / MAX2324 / MAX2326 / MAX2327 Dual band LNA / mixer	L1 - 0603CS-1N8XKBC L3 - 1008CS-331XJBC L4 - 0603CS-R11XJBC	L5 - 0603CS-R11XJBC L6 - 0906-4-10 L10 - 0906-2
MAX2323 / MAX2325 Triple / dual-mode CDMA LNA / mixers	L2, L4 - 0603CS-1N8XKBC L7, L8 - 0805CS-271XGBC	L11 - 0805CS-331XGBC
MAX2335 CDMA/OFDM LNA / mixer	L6 - 0603CS-47NXJL L9 - 0402CS-1N0XJL	L13 - 04L02CS-47NGL
MAX2360 / MAX2362 / MAX2364 Dual-band, triple-mode transmitter	L1 - 0603CS-8N7XJBC L2, L3 - 0603CS-R10XJBC L4 - 0603CS-10NXJBC L5, L16, L19 - 0603CS-R22XJBC	L9 - 0603CS-39NXJBC L10, L11 - 0603CS-22NXJBC T5, T6 - TTWB2010
MAX2387 / MAX2388 / MAX2389 Low noise amplifier	L1, L4 - 0402CS-2N2XKBG L2, L3 - 0603CS-27NXJBC	L7 - 0402CS-5N6XJBG
MAX2410 RF Up-down converter with LNA and PA driver	L1 - 0805CS-180XKMBC L3 - 0805CS-680XKBC	L11 - 0805CS-820XKBC L12 - 0805CS-680XKBC
MAX2420 / MAX2421 / MAX2422 / MAX2460 / MAX2463 900 MHz Image reject transceiver	L1 - 0805CS-220XMBC L2 - 0805CS-080XMBC L3 - 0805HS-060TJBC L3 - 0805HS-030TJBC L3 (with tank components) - A02T	L4 - 0805CS-101XKBC L6 - 0805CS-120XMBC L8 - 0805CS-180XMBC L9 - 0805CS-820XKBC
MAX2424 / MAX2426 900 MHz Image reject receiver w / transmit mixer	0805CS-120XMBC 0805CS-080XMBC 0805CS-220XMBC 0805CS-101XMBC	0805CS-180XMBC 0805CS-820XMBC 0805CS-060XMBC L3 (with tank components) - A02T
MAX2430 Silicon RF power amplifier	L1 - 2 A03T LC - 0805CS-470XMBC	
MAX2440 / MAX2441 / MAX2442 Front-end receiver ICs	L3 - A02T 0805HS-060TMBC	
MAX2472 / MAX2473 500 - 2500 MHz VCO Buffer amplifier	L1 - 0603HS-12NTJBC Z1 - 0603HS-12NTJBC	

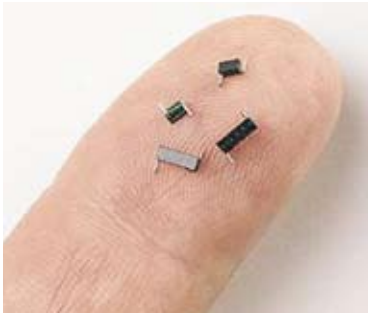
These lists are updated on a regular basis; please check **www.coilcraft.com/ic** for the latest references

Maxim	Coilcraft Part Number(s)	
MAX2510 IF transceiver	L2 - 0805HS-820TKBC	L3-4 - 0805HS-470TKBC
MAX2601 / MAX2602 RF power transistors	L2 - A05T	
MAX2620 10 - 1050 MHz Integrated oscillator	L3 - 0603HS-10NTJBC	
MAX2640 LNA	L1 - 0603CS-10NXJL	L2 - 0603CS-22NXJL
MAX2642 / MAX2643 LNAs	L1 - 0603CS-8N7XJBC	
MAX2648 5 GHz low-noise amplifier	L1 - 0805CS-220XJBC	
MAX2680 / MAX2681 / MAX2682 400 MHz - 2.5 GHz Down converter mixers	L1 - 1008HS-330TJBC	
MAX2685 LNA with down converter mixer	L2 - 1008CS-681XJBC	L3 - 1008CS-821XJBC
MAX2741 GPS receiver	L1 - 0402CS-6N2XJL	
MAX3273 Laser driver	Lp3 - DO1607C-333 (replaced by DO1606T-333ML)	
MAX3509 CATV upstream amplifier	T2 - TTWB-1-A	
MAX3580 DC Tuner	L13 - 0603CS-R39XJL	
MAX3668 SKH / SONET laser driver	L2 - 1008CS-332XKBC	L3 - 1008CS-332XKBC
MAX3669 Laser driver	L2 - 1008CS-322XKBC	L3 - 1008LS-122XKBC
MAX3675 / MAX3676 622 Mbps 3.3 v Clock recovery and data-retiming IC	L3, L4 - 0805HS-560TKBC	
MAX3680 / MAX3681 SDH / SONET deserialiser	L1 - 0805CS-560XKBC	
MAX3690 622 Mbps serialiser	L1 - L5 0805CS-560XKBC	
MAX3750 / MAX3751 Port bypass IC	L1 - 0805HT-56NTKBC	
MAX3761 / MAX3762 Amplifier w/power detect for LANs	L1, L2 ,L3 - 1008LS-562 L7 - 1812CS-15XKBC	L4 - 1008CS-472
MAX3812 SMPTE HD / SD-SDI Cable driver	L1, L2 - 0402CS-6N8XJL	L4 - 1008CS-102XJL
MAX3831 / MAX3832 mux / demux	L1 - L6 0805CS-560XKBC	
MAX3867 SDH/SONET Laser drive	L9 - 1008LS-122XKBC	
MAX3872 / MAX3874 Evaluation kit	L1 - L3 0805CS-560XKBC	
MAX3880 SDH / SONET deserialiser	L1 - L3 0805CS-560XKB	
MAX3885 SDH / SONET deserialiser	L1 - 0805CS-560XKBC	
MAX3890 2.5 Gbps serialise	L1 - L4 0805CS-560XKBC	
MAX3964 ETP Evaluation kit	L1, L2 1206CS-122XJBC	
MAX3967 A SFP LED driver	L1 - 1008CS-102XJL	
MAX3969 Limiting amplifier	L1, L2 - 1008LS-122XJL	
MAX3991 XFP Signal conditioning receiver	L1 - 1008LS-472XJL	
MAX3992 XFP Signal conditioning transmitter	L1 - 1008LS-472XJL	
MAX4295 / MAX4297 Class D Audio Power Amplifier	DT1608C-472	L1 - L4 DO3316P153
MAX4397 Dual SCART A / V Switch matrix	L1 - 1206CS-221XJL	
MAX4399 Triple SCART Switch matrix	L1 - 1206CS-221XJL	
MAX5003 PWM Controller	L1 - DO1608C-335M	
MAX5035/33 High efficiency step-down DC-DC converter	DO5022-104	
MAX5051 Two-switch power supply controller	A9860-B	

DT3316 Series Shield Power Inductors

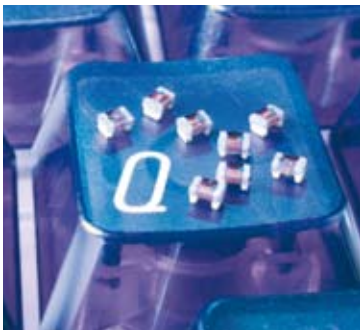


0402CS (1005) Ceramic Chip Inductors



Micro Spring™ Air Core Surface Mount Inductors

Wideband RF Transformers TTWB Series



0603CS (1608) Ceramic Chip Inductors

DO5022 SM Power Inductors

Maxim	Coilcraft Part Number(s)	
MAX5069A PWM controller	L1 - DO5010H-472ML L2 - DS1608C-105ML	1:04 Transfomer B0860-CL
MAX5074 Isolated PWM power IC	L1 - MSS1278-683ML	1:0.88 Transformer C0984-C
MAX5090 Step-down DC-DC converter	L1 - DO5022P-104ML	
MAX5092 LDO regulator	L1 - DO3316P-472ML	
MAX5854 DAC	1:1 Transformer TTWB3010-1L	
MAX5873 / MAX5874 / MAX5875 Dual DACs	1:1 Transformer TTWB3010-1L	
MAX5876 / MAX5877 / MAX5878 DACs	1:1 Transformer TTWB3010-1L	
MAX5886 / MAX5887 / MAX5888 DACs	1:1 Transformer TTWB3010-1L	
MAX5889 / MAX5890 / MAX 5891 DACs	1:1 Transformer TTWB-1-BL	
MAX5898 Dual DAC	1:1 Transformer TTWB3010-1L	
MAX5941B PoE interface for PWM controller	L1 - DO5010H-123ML L2 - DS1608-335ML	Transformer B0863-A
MAX5941B PoE interface for PWM controller	1:0.457 Transformer GA3271-AL	
MAX5945 Power controller for POL	L1 - DO3308P-683ML	
MAX5952 PSE controller (PoE)	L1 - DO3308P-683ML	
MAX7030 ASK transceiver, 315 MHz	L1, L2, L3 - 0603CS-27NXJL L4 - 0603CS-12NXJL	L6 - 0603CS-R10XJL
MAX7030 ASK transceiver, 433.92 MHz	L1, L2, L3 - 0603CS-22NXJL L4 - 0603CS-10NXJL	L6 - 0603CS-68NXJL
MAX7031 FSK transceiver, 315 MHz	L1, L2, L3 - 0603CS-27NXJL L4 - 0603CS-12NXJL	L6 - 0603CS-R10XJL
MAX7031 FSK transceiver, 433.92 MHz	L1, L2, L3 - 0603CS-22NXJL L4 - 0603CS-10NXJL	L6 - 0603CS-68NXJL
MAX7033 Superheterodyne receiver, 315 MHz	L1 - 0603CS-R12XJL	L2 - 0603CS-27NXJL
MAX7033 Superheterodyne receiver, 433.92 MHz	L1 - 0603CS-15NXJL	L2 - 0603CS-56NXJL
MAX8607 White LED boost converter	LPO3310-222ML	
MAX9595 Dual SCART AV switch matrix	L1 - 1206CS-221XJL	
MAX9742 Audio power amplifer	DO3340P-223ML	
MAX9853 Audio DAC	L1, L2 - 1812CS-332XJL	
MAX9981 Dual SiGe high-linearity active mixer	L1 - L4 - 1008CS-561XJBC	
MAX9982 High linearity mixer	L1, L2 - 1008CS-561XJBC	
MAX9993 Down-conversion mixer	L1, L2 - 1008CS-471XJBC	L3 - 0805CS-100XJBC
MAX9985 Dual-channel down-conversion mixer	L1, L2, L4, L5 - 0805CS-561XJL	L3, L6 - 0603CS-30NXJL
MAX9986A Base-station down-conversion mixer	L1, L2 - 0805CS-331XJL	L3 - 0603CS-30NXJL
MAX9995 Dual high-linearity mixer	L1, L2, L4, L5 - 0805CS-331XJL	L3, L6 - 0603CS-10NXJL
MAX12527 / MAX12528 / MAX12529 / MAX12557 / MAX12558 / MAX12559 Dual ADCs	1:2 Transformer TTWB-2-BL	
MAX16802 PWM LED driver	L1 - DO3308P-103ML	
MAX16802B LED driver	L1 - DO3308P-472ML	
MAX16807 LED driver	L1 - MSS1038-333ML	
MAX16809 LED driver	L1 - MSS1260-273ML	
MAX16812 PWM HBLED	L1 - DO3340P-683ML	
MAX19700 Analog front end	1:1 Transformer TTWB3010-1	

COILCRAFT MAGNETICS RECOMMENDED
FOR ALLEGRO IC DEVICES

Allegro Microsystems	Coilcraft Part Number(s)	
A4490 Stepdown switching regulator	MSS1038-103 MSS5131-103 MSS5131-153 LPS5030-472	MSS1038-153 LPS5030-103 LPS5030-153
A8281 / A8282 LNB supply and control voltage regulators	L1 - DO3316P-104LW RFB0810-101 MSS1260T-104 MSS1246T-104 MSS1048-104 DO3316P-104 MSS1260T-224 MSS1278T-224 RFB1010-221	RFB1010-101 MSS1048-104 MSS1260-104 MSS1246-104 DO3316T-104 MSS1038-104 MSS1260-224 MSS1278-224
A8285 / A8287 Voltage regulators	DO1813H-333 RFB0810-330 MSS1038-333 RFB0807-330 LPS6235-333 LPS5030-333 MOS6030-333 1812PS-333 MSS6122-333 DO1608C-333 LPO2506I-333 DO1606T-333 LPS5015-333 SPT30L-353	RFB1010-330 MSS1048-333 DR0608-333 MSS7341-333 MSS5131-333 LPS6225-333 MSS6132-333 LPS4018-333 MSS5121-333 LPO2506O-333 LPS4414-333 DO1605T-333 LPS4012-333
A8286 / A8290 / A8291 / A8292 Voltage regulators	RFB1010-330 DR0810-224 MSS1048-224 MSS1038-224 ME3220-102 EPL2010-102	DR0810-333 RFB0810-221 DR0608-224 ME3215-102 EPL2014-102
A8450 Voltage regulator	MSS1278T-104 MSS1260T-104 MSS1246T-104 MSS1048-104 DO3316P-104	MSS1278-104 MSS1260-104 MSS1246-104 DO3316T-104 MSS1038-104
A8481 Boost regulator	LPS4018-472	
A8483 Step-up convertor	LPS4018-103 LPS3314-103 ME3220-103 LPS3015-103	MSS4020-103 LPS4012-103 EPL2014-103
A8499 Step-down regulator	MSS1246T-473 MSS1038-473	MSS1246-473 MSS1048-473
A8504 WLED / RGB	LPS5015-472	
A8697 Step-down regulator	MSS1038-382 SER1052-402	MLC1245-402
A8698 Step-down regulator	MSS1048-103 MSS1246-103 MSS1260-333 MSS1278-333	MSS1038-103 MSS1260T-333 MSS1278T-333

LPS5030 Series Shielded Power Inductors

MSS Series Shielded Power Inductors


RFB Series Power Inductors

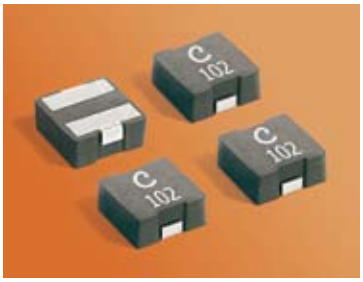
Please check for updated magnetics at **www.coilcraft.com/ic**

Allegro MicroSystems Europe Ltd.

Coilcraft

COILCRAFT MAGNETICS RECOMMENDED
FOR SEMTECH IC DEVICES

1812PS Series Shielded Power Inductors


XPL7030 Series Shielded Power Inductors


MOS6020 Series Shielded Power Inductors

Semtech (Xemics)	Coilcraft Part Number(s)	
SC104 Constant-current DC-DC convertor	MSS5131-562 MSS6122-562 XPL7030-682 MSS6132-682 MOS6020-682 MSS5131-273 MSS6122-273	MSS6132-562 MSS7341-622 MSS5131-682 LPS6235-682 MSS7341-273 MSS6132-273
SC4501 / SC4502 / SC4502H Step-up switching regulator	MOS6020-222 DO1813H-332 MSS5131-222 LPS5030-222 DO1605T-222 DO1608C-222 LPS5030-172	MOS6020-332 MSS7341-332 MSS5121-222 LPS4018-222 1812PS-222 DO1606T-222 LPS5015-182
SC4538 Boost convertor for LEDs	LPS4018-153 DO1605T-153 LPS3314-153 LPS4012-153 LPS4018-223	MSS4020-153 LPS4414-153 ME3220-153 MSS5121-223
XE 1201 Transceiver	L1 - L5, L7 0805CS-120XJBC L6, L8, L9 0805CS-180XJBC L10 0805CS-560XJBC	
XE 1201 Transceiver (315 MHz application)	L1 - L6 0805CS-120XJBC L7 0805CS-330XJBC L8 0805CS-220XJBC L9 0805CS-470XJBC	
SC4505 Boost convertor	LPS3314-102 EPL2014-102 LPS4012-102 LPO3310-102 1812PS-152 DO1608C-152 ME3220-152 LPS4414-152 ME3220-103 LPS3015-103 ME3215-103 LPO3310-103 EPL2014-682 MOS6020-472 LPS6225-472 LPS5030-472 MSS5121-472 MSS4020-472 LPO2506I-472 LPO4815-472 DO1605T-472 DO1606T-472 LPO4812-472 LPS5010-472 ME3220-472 LPS3015-472 EPL2014-472 LPO3310-472 MSS7341-502	ME3215-102 LPS4414-102 LPS3015-102 DO1605T-152 1008PS-152 DO1606T-152 LPS4012-152 LPS3314-103 EPL2014-103 1008AF-103 DO3314-103 LPS3010-103 MSS5131-472 MSS6132-472 MSS6122-472 DO1608C-472 1812PS-472 LPS4018-472 LPO2506O-472 LPS5015-472 LPO6013-472 1812FS-472 LPS3314-472 LPS4012-472 LPO6610-472 LPS4414-472 ME3215-472 LPS3010-472

Please check for
updated magnetics at
www.coilcraft.com/ic

SEMTECH

Coilcraft

COILCRAFT MAGNETICS RECOMMENDED
FOR OTHER IC DEVICES

Silicon Laboratories	**Coilcraft Part Number(s)**	
Si2404 / Si2415 / Si2434 / Si2457 / Si2493 Embedded modems	RFB1010-332 RFB1010-103	RFB0810-332 RFB0810-103
Si3210 / Si3210M / Si3215 / Si 3215M / Si3233 Voice SLIC	LPS4018-473 LPS3314-473 LPS3015-473 LPO3310-473 1008PS-473 LPS3010-473 LPO3010-473	MSS4020-473 LPS4012-473 ME3220-473 ME3215-473 LPS3008-473 0805PS-473
Si3230 Voice SLIC	MSS1260T-564 MSS1278T-564 MSS1246T-564	MSS1260-564 MSS1278-564 MSS1246-564
Si3400 Power-over-Ethernet controller	FA2671-AL FA2732-AL	FA2672-AL
Si3400 / 3401 PoE controllers	FA2805-CL FA2925-AL	FA2924-AL
Si3460 PSE & DC-DC controller	LPS4018-473 LPS4012-472	LPS3314-472 LPS3015-472
Si4133 / Si4133G Synthesiser family	L3 - 0402CS-10NXJBX L4 - 0402CS-2N0XJBX	L3 - 0402CS-3N9XJBX L5 - 0402CS-40NXJBX
Si4701 Radio receiver	0402AF-101 0402HPH-R10	
TriQuint	**Coilcraft Part Number(s)**	
TQ7135 Power amplifier	0402CS-3N3XJBC	
WJ Wireless Products	**Coilcraft Part Number(s)**	
AH2 High dynamic range	1008CS-271XJBC	
AH22 High dynamic range	1008CS Series	

Coilcraft surface mount products for RF, power and EMI applications.

DESIGNER'S KITS

Simplify prototyping with Coilcraft's low-cost Designer's Kits. Most kits contain several pieces of every standard value in a product family. Avnet Memec stock every variety, and once purchased, Coilcraft will even provide free refills.

→ SMT PRODUCTS

• RF Chip Inductors

0302CS Chip Inductors
Inductance: 0.67 to 34 nH
Kit C370 (5% tolerance)

0402AF Chip Inductors
Inductance: 20 to 560 nH
Kit C397 (5% tolerance)

0402CS Chip Inductors
Inductance: 1 to 10 nH
Kit C328A (5% tolerance)
Kit C328A-2 (2% tolerance)
Inductance: 11 to 120 nH
Kit C328B (5% tolerance)
Kit C328B-2 (2% tolerance)

0402HP Chip Inductors
Inductance: 1 to 18 nH
Kit C403A (5% tolerance)
Kit C403A-2 (2% tolerance)
Inductance: 19 to 220 nH
Kit C403B (5% tolerance)
Kit C403B-2 (2% tolerance)

0402PA High Current Chip Inductors
Inductance: 0.78 to 8.2 nH
Kit C373 (5% tolerance)

0403HQ High Q Chip Inductors
Inductance: 1.9 to 8 nH
Kit C371 (5% tolerance)

0603CS Chip Inductors
Inductance: 1.6 to 30 nH
Kit C324A (5% tolerance)
Kit C324A-2 (2% tolerance)
Inductance: 33 to 390 nH
Kit C324B (5% tolerance)
Kit C324B-2 (2% tolerance)

0603CT Chip Inductors
Inductance: 1 to 56 nH
Kit C423 (5% tolerance)
Kit C423-2 (2% tolerance)

0603HC Chip Inductors
Inductance: 1.6 to 24 nH
Kit C339 (5% tolerance)

0603HP Chip Inductors
Inductance: 1.8 to 27 nH
Kit C406A (5% tolerance)
Kit C406A-2 (2% tolerance)
Inductance: 30 to 390 nH
Kit C406B (5% tolerance)
Kit C406B-2 (2% tolerance)

0603LS Chip Inductors
Inductance: 47 to 22,000 nH
Kit C347 (5% tolerance)

0604HQ High Q Chip Inductors
Inductance: 1.15 to 10.4 nH
Kit C351 (5% tolerance)

0805CS Chip Inductors
Inductance: 2.8 to 820 nH
Kit C303 (5% tolerance)
Kit C303-2 (2% tolerance)

0805HQ Chip Inductors
Inductance: 2.5 to 51 nH
Kit C325 (5% tolerance)

0805HT Chip Inductors
Inductance: 1.8 to 500 nH
Kit C321 (5% tolerance)

0805LS Chip Inductors
Inductance: 0.078 to 27 µH
Kit C354 (5% tolerance)

1008AF Chip Inductors
Inductance: 0.9 to 10 µH
Kit C414 (10% tolerance)

1008CS Chip Inductors
Inductance: 10 to 8200 nH
Kit C300 (5% tolerance)
Kit C300-2 (2% tolerance)

1008HQ High Q Chip Inductors
Inductance: 3 to 100 nH
Kit C323 (5% tolerance)
Kit C323-2 (2% tolerance)

1008HT Chip Inductors
Inductance: 3.3 to 560 nH
Kit C322 (5% tolerance)

1008LS Chip Inductors
Inductance: 1.0 to 100 µH
Kit C336 (5% tolerance)

1206CS Chip Inductors
Inductance: 3.3 to 1.2 µH
Kit C320 (5% tolerance)

1812CS Chip Inductors
Inductance: 1 to 33 µH
Kit C337 (5% tolerance)

1812LS Chip Inductors
Inductance: 12 to 1000 µH
Kit C314 (5% tolerance)

• Air Core Inductors

0806SQ, 0807SQ, 0908SQ
Square Air Core Inductors
Inductance: 6.0 to 27.3 nH
Kit C424 (5% tolerance)
Kit C424-2 (2% tolerance

Micro Spring™
Air Core Inductors
Inductance: 1.65 to 12.55 nH
Kit C308 (5% tolerance)
Kit C308-2 (2% tolerance)

Mini Spring™
Air Core Inductors
Inductance: 2.5 to 43 nH
Kit C302 (5% tolerance)
Kit C302-2 (2% tolerance)

Midi Spring®
Air Core Inductors
Inductance: 22 to 150 nH
Kit C318 (5% tolerance)
Kit C318-2 (2% tolerance)

Maxi Spring™
Air Core Inductors
Inductance: 90 to 558 nH
Kit C319 (5% tolerance)
Kit C319-2 (2% tolerance)

Low Profile Mini Spring™
Air Core Inductors
Inductance: 5.5 to 27 nH
Kit C394 (5% tolerance)
Kit C394-2 (2% tolerance)

• RFID Transponder Coils

RFID Transponder Coils
5315TC Series
Inductance: 0.37 to 7.2 mH
Kit C369

RFID Transponder Coils
4308RV Series
Inductance: 0.37 to 9 mH
Kit C383

• EMI / RFI Filters
Common Mode
Data Line EMI Filters
Attenuation: 15 dBm, 1.5 to 300 MHz
DC current capacity: 100, 500 mA
Kit D303

USB 2.0
Common Mode Filters
0603, 0805, 1206 sizes
Kit C384

• RF Transformers
PWB Series Wideband
RF Transformers
Ohm ratio: 1 to 1, 1.5, 2, 4 and 16
Frequency range: 0.03 to 700 MHz
Kit C404

LC Filters
Low Pass LC Filters
Poles: 3
Cutoff frequencies: 15 to 2100 MHz
Impedance: 50 Ohms
Kit D302

• Power Inductors
0603PS Series
Power Chip Inductors
Inductance 0.78 to 47 µH
Current: 0.55 to 0.10 Amps
Kit C346

0805PS Series Power Chip Inductors
Inductance 1.0 to 330 µH
Current: 0.9 to 0.06 Amps
Kit C348

1008PS Series Power Chip Inductors
Inductance 1.0 to 1000 µH
Current: 4.2 to 0.13 Amps
Kit C341

1812PS Series Power Chip Inductors
Inductance 1.0 to 1000 µH
Current: 2.5 to 0.08 Amps
Kit C343

DO1605T Series Power Wafer® Inductors
Inductance: 1 to 1000 µH
Current: 2.5 to 0.08 Amps
Kit C353

DO1606T Series Power Wafer® Inductors
Inductance: 1 to 1000 µH
Current: 2.5 to 0.06 Amps
Kit C338

DO1607B Series Backlight Inductors
Inductance: 1 to 6.8 mH
Current: 100 to 40 mAmps
Kit C335

DO1608C Series Power Inductors
Inductance: 1 to 1000 µH
Current: 2.9 to 0.10 Amps
Kit C377

DO1813H Series High Current Inductors
Inductance: 0.18 to 48.1 µH
Current: 14.0 to 0.87 Amps
Kit C331

DO2010 Series Power Inductors
Inductance: 0.5 to 220 µH
Current: 2.4 to 0.10 Amps
Kit C399

DO3308P Series Power Inductors
Inductance: 4.7 to 1000 µH
Current: 4.2 to 0.29 Amps
Kit C309

DO3314 Series Power Wafer® Inductors
Inductance: 1 to 33 µH
Current: 2.1 to 0.51 Amps
Kit C358

DO3316H Series High Current Inductors
Inductance: 0.12 to 4.7 µH
Current: 28 to 5.4 Amps
Kit C326

DO3316P Series Power Inductors
Inductance: 1 to 3300 µH
Current: 9.0 to 0.19 Amps
Kit C378 (20% tolerance)

DO3316T Series High Temp Inductors
Inductance: 0.33 to 470 µH
Current: 20 to 0.50 Amps
Kit C396

DO3340P Series Power Inductors
Inductance: 10 to 1000 µH
Current: 8.0 to 0.8 Amps
Kit C310

DO5010H Series High Current Inductors
Inductance: 0.78 to 1000 µH
Current: 30 to 1.0 Amps
Kit C355

DO5022P Series Power Inductors
Inductance: 1 to 1000 µH
Current: 28.8 to 1.1 Amps
Kit C311

DS1608B Series Backlight Inductors
Inductance: 0.1 to 10 mH
Current: 220 to 10 mAmps
Kit C334

EPL2010 Series Shielded Power Inductors
Inductance: 0.18 to 10 µH
Current: 2.9 to 0.47 Amps
Kit C412

EPL2014 Series
Shielded Power Inductors
Inductance: 0.3 to 10 µH
Current: 2.8 to 0.60 Amps
Kit C413

LPD4012 Coupled
Inductors for SEPIC
Inductance: 0.33 to 560 µH
Current: 5.6 to 0.115 Amps
Kit C422

LPO2506 Series
Power Wafer® Inductors
Inductance: 4.7 to 1000 µH
Current: 1.6 to 0.10 Amps
Kit C332 (InBoard®)
Kit C333 (On-board)

LPO3010 Series
Power Wafer® Inductors
Inductance: 1 to 22 µH
Current: 1.7 to 0.30 Amps
Kit C388

LPO3310 Series
Power Wafer® Inductors
Inductance: 0.3 to 47 µH
Current: 2.8 to 0.25 Amps
Kit C375

LPO4812 Series
Power Wafer® Inductors
Inductance: 1 to 220 µH
Current: 1.3 to 0.09 Amps
Kit C357

LPO4815 Series
Power Wafer® Inductors
Inductance: 1 to 220 µH
Current: 1.6 to 0.11 Amps
Kit C376

LPO6013 Series
Power Wafer® Inductors
Inductance: 1 to 1000 µH
Current: 1.9 to 0.07 Amps
Kit C352

LPO6610 Series
Power Wafer® Inductors
Inductance: 1.2 to 330 µH
Current: 2.1 to 0.13 Amps
Kit C367

LPS30xx Shielded
Power Wafer® Inductors
Parts from LPS3008, 3010, 3015
Inductance: 0.68 to 33 µH
Kit C392

LPS3314 Shielded
Power Wafer® Inductors
Inductance: 1 to 1500 µH
Current: 2.5 to 0.09 Amps
Kit C330

LPS40xx Shielded
Power Wafer® Inductors
Parts fom LPS4012, LPS4018
Inductance: 0.56 to 33 µH
Current: 5.3 to 0.37 Amps
Kit C401

LPS4414 Shielded
Power Wafer® Inductors
Inductance: 0.3 to 820 µH
Current: 5.8 to 0.083 Amps
Kit C340

LPS High L Shielded
Power Wafer® Inductors
Parts from LPS30xx, LPS40xx
Inductance: 220 to 3300 µH
Kit C402

LPS5010 Shielded
Power Wafer® Inductors
Inductance: 0.47 to 1000 µH
Current: 3.4 to 0.10 Amps
Kit C407

LPS5015 Shielded
Power Wafer® Inductors
Inductance: 1 to 4700 µH
Current: 3.9 to 0.072 Amps
Kit C350

LPS5030 Shielded
Power Wafer® Inductors
Inductance: 0.9 to 4700 µH
Current: 4.1 to 0.059 Amps
Kit C420

LPS6225 Shielded
Power Wafer® Inductors
Inductance: 1.2 to 10,000 µH
Current: 5.4 to 0.087 Amps
Kit C349

LPS6235 Shielded
Power Wafer® Inductors
Inductance: 6.8 to 10,000 µH
Current: 2.8 to 0.074 Amps
Kit C345

ME3215 Series
Power Inductors
Inductance: 1 to 100 µH
Current: 2.8 to 0.27 Amps
Kit C408

ME3220 Series
Power Inductors
Inductance: 1 to 100 µH
Current: 3.2 to 0.34 Amps
Kit C386

MLC Series
High Current Inductors
Inductance: 0.36 to 4.5 µH
Current: 54 to 11.8 Amps
Kit C387

MOS6020 Series
Shielded Power Inductors
Inductance: 2.2 to 470 µH
Current: 3.56 to 0.19 Amps
Kit C359

MSD1278 Series
Shielded Coupled Inductors
Inductance: 4.7 to 4000 µH
Current: 14.9 to 1.1 Amps
Kit C400

MSS1038 Series
Shielded Power Inductors
Inductance: 1.0 to 1000 µH
Current: 12.1 to 0.46 Amps
Kit C391

MSS1048 Series
Shielded Power Inductors
Inductance: 0.8 to 330 µH
Current: 14.1 to 0.76 Amps
Kit C409

MSS1246 Series
Shielded Power Inductors
Inductance: 4.7 to 1000 µH
Current: 9.86 to 0.68 Amps
Kit C410

MSS1246T Series
Shielded Power Inductors
Inductance: 1.0 to 1000 µH
Current: 22.04 to 0.728 Amps
Kit C417

MSS1260 Series
Shielded Power Inductors
Inductance: 1.0 to 1000 µH
Current: 22.7 to 0.74 Amps
Kit C360

MSS1260T Series
Shielded Power Inductors
Inductance: 1.0 to 1000 µH
Current: 22.76 to 0.672 Amps
Kit C418

MSS1278 Series
Shielded Power Inductors
Inductance: 1.4 to 1000 µH
Current: 30.6 to 1.14 Amps
Kit C380

MSS1278T Series
Shielded Power Inductors
Inductance: 1.0 to 1000 µH
Current: 36.84 to 1.18 Amps
Kit C419

MSS4020 Series
Shielded Power Inductors
Inductance: 3.3 to 100 µH
Current: 1.2 to 0.20 Amps
Kit C381

MSS5121 Series
Shielded Power Inductors
Inductance: 2.2 to 390 µH
Current: 2.3 to 0.19 Amps
Kit C411

MSS5131 Series
Shielded Power Inductors
Inductance: 2.2 to 390 µH
Current: 2.3 to 0.16 Amps
Kit C362

MSS6122 Series
Shielded Power Inductors
Inductance: 4.7 to 100 µH
Current: 1.82 to 0.4 Amps
Kit C363

MSS6132 Series
Shielded Power Inductors
Inductance: 4.7 to 100 µH
Current: 2.84 to 0.59 Amps
Kit C364

MSS7341 Series
Shielded Power Inductors
Inductance: 3.3 to 100 µH
Current: 3.72 to 0.71 Amps
Kit C385

SER1052 Series
Shielded Power Inductors
Inductance: 0.8 to 5.7 µH
Current: 25.6 to 6.0 Amps
Kit C421

SER1360 Series
High Current Inductors
Inductance: 0.33 to 10 µH
Current: 43 to 7.5 Amps
Kit C365

SER1590 Series
High Current Inductors
Inductance: 0.3 to 1.5 µH
Current: 50 to 17 Amps
Kit C366

SER2000 Series
High Current Inductors
Inductance: 0.3 to 2 µH
Current: 100 to 45 Amps
Kit C374

SLC7530 Series
Shielded Power Inductors
Inductance: 0.05 to 0.40 µH
Current: 50 to 8 Amps
Kit C379

• **Power Transformers**
CST Series
SMT Current Sensors
Eight turns ratios
Two different pinouts
Kit C389

PoE 300F Series
30 Watt Transformers
3.3 to 24 Volt output
Kit C398

PoE EP Series Transformers
3 Watt , 7 Watt and 13 Watt versions
3.3, 5.0 and 12 Volt output
Kit C395

PoE Series Transformers
6 Watt and 13 Watt versions
1.8 to 12 Volt output
Kit C372

Miniature PoE Transformers
6 Watt, 1.8 to 12 Volt output
Continuous / discontinous modes
Kit C382

Planar Transformer
Prototyping Kit
Design and build your own prototypes with no tooling costs and no waiting
Kit C356

PL140 Series
Planar Transformers
For 140 Watt applications
3 different schematics
Kit C390

→ LEADED PRODUCTS

• **RF Inductors**
132, 148 Series Horizontal Mount Inductors
Tunable and fixed
Inductance: 14 to 710 nH
Kit M304

'Slot Seven' 7 mm
Tunable Inductors
Inductance: 0.094 to 275 µH
Kit M106

'Slot Ten' 10 mm
Tunable Inductors
Inductance: 0.7 to 1143 µH
Shielded & unshielded
Kit M100

'Unicoil' 7 / 10 mm
Tunable Inductors
Inductance: 0.0435 to 1.5 µH
Shielded & unshielded
Kit M302

'Unicoil' 5 mm
Tunable Inductors
Inductance: 9 to 281 nH
Shielded & unshielded
Kit M305

• **EMI / RFI Filters**
Common Mode
Data Line EMI Filters
Attenuation: 15 dBm, 1.5 to 300 MHz
2, 3, 4, 8 and 10 line
DC current capacity: 100, 500 mA
Surface mount and leaded
Kit D303

• **Power Inductors**
Common Mode Line Chokes
Inductance: 731 to 10.5 mH
Current: 8.1 to 0.25 Amps rms
Kit P402

Current Sensors
Sensing range: 0.02 to 35 Amps
Frequency response: 20– 50+ kHz
Transformer and sensor-only versions
Kit P403

DC1012 Series Power Inductors
Inductance: 10 to 330 µH
Current: 3.5 to 0.7 Amps
Kit P410

PCV Series Power Filter Chokes
Inductance: 4.7 to 270 µH
Current: 13 to 3.8 Amps rms
Kit P405

PCH27, 45 Series
Axial Lead Power Chokes
Inductance: 3.9 to 82 mH
Current: 4.3 to 0.04 AC Amps
Kit P409

Mag Amp Toroids
Current: 1 and 5 Amps
Volt-time product: 93 to 186 V-µsec
Kit P206

LC Filters Low Pass LC Filters
Poles: 3 and 7
Cut-off frequencies: 0.30 to 500 MHz
Impedance: 50 Ohms
Kit D301

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