

Chip Inductors



Steward's two-terminal surface mount chip inductors provide a cost effective solution for densely packed PC board designs. Our proprietary SMT construction yields rugged components with superior inductance vs. frequency characteristics.

Features:

- Small footprint • Economical • Rugged construction • Superior inductance vs. frequency characteristics • Parts available in broad band and high frequency materials • Lead Free

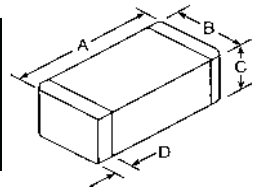
Application:

- RF and wireless communication • Information technology equipment including; computers, telecommunications, radar detectors, automotive electronics, cellular phones, pagers, audio equipment, PDAs, keyless remote systems and low-voltage power supply modules • Filters

Test Specifications:

- HP4396A (100KHz - 1.8 GHz) or HP8753 (to 6 GHz) Network/Spectrum Analyzer • HP43961A Impedance Test Kit • HP16192A Test Fixture or Inter-Continental Microwave custom fixtures • HP16200A DC Bias Adapter • Philips PM2811 DC Power Supply • Ambient Temperature 23.5°C ± 2° • Bandwidth 3 kHz • Sweep Time 423 ms • Inductance is rated at ± 10% at rated frequency • Maximum current ratings are determined by testing to a maximum temperature rise of 40°C with continuous current • Ambient Operating Temperature Range: -55° C to +125° C

STEWARD PART NUMBERING SYSTEM						
IC	0603	D	470	R	- K0	- 10
PRODUCT SERIES CODE	PART SIZE CODE	RATED CURRENT CODE	IMPEDANCE VALUE CODE	PACKAGING CODE	ADDITIONAL DESCRIPTION	ADDITIONAL DESCRIPTION



Tolerance Code K = ±10%

Ferrite Chip Inductors					
PART NUMBER	Inductance (L) (nH)	Q (min)	Self-Resonant Frequency (MHz)	DCR MAX OHMS	RATED I MAX (continuous) mA
IC0603D470R-K0-10	47.00	10	260	0.15	400
IC0603C820R-K0-10	82.00	10	245	0.25	300
IC0603B101R-K0-10	100.00	15	276	0.50	200
IC0603B181R-K0-10	180.00	15	190	0.60	200
IC0603A271R-K0-10	270.00	15	157	0.80	100
IC0603A391R-K0-10	390.00	15	127	1.00	100
IC0603A471R-K0-10	470.00	15	121	1.35	75
IC0603A561R-K0-10	560.00	15	110	1.55	75
IC0603A681R-K0-10	680.00	15	104	1.70	75
IC0603A821R-K0-10	820.00	15	98	2.10	50
IC0603B102R-K0-10	1,000.00	35	87	0.60	200
IC0603A182R-K0-10	1,800.00	35	64	0.95	100
IC0603A103R-K0-10	10,000.00	30	17	2.55	100
IC0805C470R-K0-10	47.00	15	320	0.20	300
IC0805C680R-K0-10	68.00	15	280	0.20	300

Ferrite Chip Inductors					
PART NUMBER	Inductance (L) (nH)	Q (min)	Self-Resonant Frequency (MHz)	DCR MAX OHMS	RATED I MAX (continuous) mA
IC0805C820R-K0-10	82.00	15	255	0.20	300
IC0805B101R-K0-10	100.00	20	279	0.30	250
IC0805A561R-K0-10	560.00	25	133	0.75	150
IC0805B102R-K0-10	1,000.00	45	87	0.40	250
IC0805B182R-K0-10	1,800.00	45	64	0.60	250
IC0805B222R-K0-10	2,200.00	45	78	0.65	200
IC0805A272R-K0-10	2,700.00	45	52	0.75	150
IC0805A472R-K0-10	4,700.00	45	41	1.00	150
IC0805A822R-K0-10	8,200.00	50	30	1.10	100
IC0805A103R-K0-10	10,000.00	50	28	1.15	100
IC0805A153R-K0-10	15,000.00	30	22	0.80	150
IC0805A183R-K0-10	18,000.00	30	21	0.90	150
IC0805A223R-K0-10	22,000.00	30	19	1.10	100
IC0805A273R-K0-10	27,000.00	30	17	1.15	100
IC0805A333R-K0-10	33,000.00	30	15	1.25	100

Ferrite Chip Inductors					
PART NUMBER	Inductance (L) (nH)	Q (min)	Self-Resonant Frequency (MHz)	DCR MAX OHMS	RATED I MAX (continuous) mA
IC1206C101R-K0-10	100.00	20	271	0.25	300
IC1206B331R-K0-10	330.00	20	167	0.60	250
IC1206B821R-K0-10	820.00	25	115	0.90	150
IC1206B102R-K0-10	1,000.00	45	87	0.40	250
IC1206B332R-K0-10	3,300.00	45	48	0.70	200
IC1206A822R-K0-10	8,200.00	50	30	0.90	150

Ferrite Chip Inductors					
PART NUMBER	Inductance (L) (nH)	Q (min)	Self-Resonant Frequency (MHz)	DCR MAX OHMS	RATED I MAX (continuous) mA
IC1206A103R-K0-10	10,000.00	50	28	1.00	150
IC1206A123R-K0-10	12,000.00	50	26	1.05	100
IC1206B153R-K0-10	15,000.00	35	22	0.70	200
IC1206B183R-K0-10	18,000.00	35	21	0.70	200
IC1206A223R-K0-10	22,000.00	35	19	0.90	150
IC1206A333R-K0-10	33,000.00	35	15	1.05	100

Steward Chip Inductors
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Steward produces an extensive line of ferrite products for Inductive and EMI Filtering Applications. Products include ferrite EMI cable cores, connector plates, unique common mode chokes, can-bus chokes, high current thru hole and surface mount components, impedance chip beads, surface mount inductors, toroid inductor cores and ferrite powders. Please consult our web site, Steward's EMI and Inductive Components full catalog, or contact your nearest Steward office or representative for additional information.

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