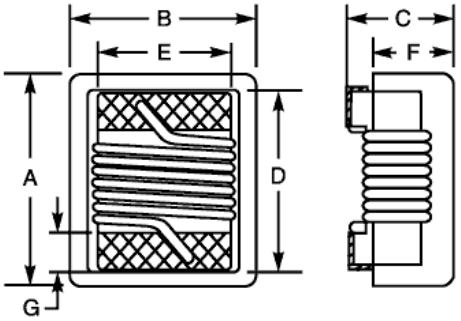
Chip Wire Wound Inductor



Feature

1. Utilizing a miniaturized winding structure, the products provide high Q and SRF Characteristics;
2. Ceramic body and ferrite body are available;
3. Precise tolerance and excellent uniformity of products.

Applications

Mobile radios; cordless telephones; global positioning system (GPS); modem; xDSL and vDSL filter; wireless communications equipment; network system; computer and peripherals.

Available type

0402
1608
2012
2520
3225
4532

Shape and dimensions

Type	A Max	B Max	C Max	D	E	F	G
1005	1.28	0.66	0.63	0.96	0.42	0.41	0.26
1608	1.78	1.12	1.02	1.48	0.76	0.73	0.33
2012	2.29	1.73	1.52	1.72	1.27	1.12	0.51
2520	2.92	2.79	2.03	2.18	2.03	1.51	0.51

Identification

KC	1608	C	W	101	J	S	T
1	2	3	4	5	6	7	8

1. Kingcera Electronics Co., Ltd
2. Type;
3. Material of Core: C—Ceramic; F—Ferrite;
4. Wire Wound;
5. Inductance: 101:100nH; 3R3: 3.3nH;
6. Tolerance: F:1%; G: 2%; J: 5%; K: 10%; M: 20%;
7. Termination Material: G: Gold Termination; S: Solder Termination;
8. Package: (T: taping; B: bulk)

KC1608CW Series

Part Number	Inductance (nH)	Tol (%)	Q Min	SRF(Min) (MHz)	RDC(Max) (Ohms)	IDC(Max) (mA)
KC1608CW1R8KST	1.8 @ 250 MHz	10,20	16 @ 250 MHz	>6000	0.045	700
KC1608CW3R9KST	3.9 @ 250 MHz	10,20	20 @ 250 MHz	>6000	0.08	700
KC1608CW6R8KST	6.8 @ 250 MHz	10,20	25 @ 250 MHz	5800	0.11	700
KC1608CW100KST	10 @ 250 MHz	2,5,10,20	30 @ 250 MHz	4800	0.13	700
KC1608CW120KST	12 @ 250 MHz	2,5,10,20	30 @ 250 MHz	4000	0.13	700
KC1608CW150JST	15 @ 250 MHz	2,5,10,20	30 @ 250 MHz	4000	0.17	700
KC1608CW180JST	18 @ 250 MHz	2,5,10,20	30 @ 250 MHz	3200	0.17	700
KC1608CW220JST	22 @ 250 MHz	2,5,10,20	35 @ 250 MHz	3000	0.19	700
KC1608CW270JST	27 @ 250 MHz	2,5,10,20	35 @ 250 MHz	2800	0.22	600
KC1608CW330JST	33 @ 250 MHz	2,5,10,20	35 @ 250 MHz	2300	0.22	600
KC1608CW390JST	39 @ 250 MHz	2,5,10,20	35 @ 250 MHz	2200	0.25	600
KC1608CW470JST	47 @ 200 MHz	2,5,10,20	35 @ 250 MHz	2100	0.28	600
KC1608CW560JST	56 @ 200 MHz	2,5,1 0,20	35 @ 250 MHz	2000	0.31	600
KC1608CW680JST	68 @ 200 MHz	2,5,10,20	35 @ 250 MHz	1850	0.34	600
KC1608CW720JST	72 @ 150 MHz	2,5,10,20	35 @ 250 MHz	1700	0.49	400
KC1608CW820JST	82 @ 150 MHz	2,5,10,20	35 @ 250 MHz	1700	0.54	400
KC1608CW101JST	100 @ 150 MHz	2,5,10,20	35 @ 250 MHz	1500	0.71	400
KC1608CW111JST	110 @ 150 MHz	2,5,10,20	35 @ 250 MHz	1400	0.75	300
KC1608CW121JST	120 @ 150 MHz	2,5,10,20	35 @ 250 MHz	1350	0.79	300
KC1608CW151JST	150 @ 150 MHz	2,5,10,20	28 @ 150 MHz	1200	0.92	280
KC1608CW181JST	180 @ 100 MHz	2,5,10,20	25 @ 100 MHz	1100	1.25	240
KC1608CW221JST	220 @ 100 MHz	5,10,20	25 @ 100 MHz	1000	1.5	200
KC1608CW271JST	270 @ 100 MHz	5,10,20	25 @ 100 MHz	860	1.8	170
KC1608CW331JST	330 @ 100 MHz	5,10,20	24 @ 100 MHz	600	2	150
KC1608CW391JST	390 @ 100 MHz	5,10,20	23 @ 100 MHz	460	2.1	120

KC2012CW Series

Part Number	Inductance (nH)	Tol (%)	Q Min	SRF(Min) (MHz)	RDC(Max) (Ohms)	IDC(Max) (mA)
KC2012CW2R2MGT	2.2 @ 250 MHz	10,20	40 @ 1500 MHz	>6000	0.1	600
KC2012CW3R3MGT	3.3 @ 250 MHz	5,10,20	30 @ 1500 MHz	>6000	0.08	600
KC2012CW6R8MGT	6.8 @ 250 MHz	5,10,20	50 @ 1000 MHz	5000	0.11	600
KC2012CW8R2MGT	8.2 @ 250 MHz	5,10,20	50 @ 1000 MHz	4800	0.19	600
KC2012CW120MGT	12 @ 250 MHz	2,5,10,20	50 @ 500 MHz	4100	0.15	600
KC2012CW150MGT	15 @ 250 MHz	5,10,20	50 @ 500 MHz	2900	0.17	600
KC2012CW180MGT	18 @ 250 MHz	2,5,10,20	50 @ 500 MHz	3300	0.2	600
KC2012CW220MGT	22 @ 250 MHz	2,5,10,20	55 @ 500 MHz	2600	0.22	500
KC2012CW270MGT	27 @ 250 MHz	2,5,10,20	60 @ 500 MHz	2500	0.25	500
KC2012CW330MGT	33 @ 250 MHz	1,2,5,10,20	60 @ 500MHz	2200	0.27	500
KC2012CW390MGT	39 @ 250 MHz	1,2,5,10,20	60 @ 500MHz	2100	0.29	500
KC2012CW470MGT	47 @ 200 MHz	1,2,5,10,20	60 @ 500MHz	1750	0.31	500
KC2012CW560KGT	56 @ 200 MHz	1,2,5,10,20	60 @ 500MHz	1650	0.32	500
KC2012CW680KGT	68 @ 200 MHz	1,2,5,10,20	60 @ 500MHz	1500	0.38	500
KC2012CW820KGT	82 @ 150 MHz	1,2,5,10,20	60 @ 500MHz	1400	0.42	400
KC2012CW101KGT	100 @ 150 MHz	1,2,5,10,20	60 @ 500MHz	1200	0.46	400
KC2012CW121KGT	120 @ 150 MHz	1,2,5,10,20	50 @ 250 MHz	1200	0.51	400
KC2012CW151KGT	150 @ 100 MHz	1,2,5,10,20	50 @ 250 MHz	1000	0.56	400
KC2012CW181KGT	180 @ 100 MHz	1,2,5,10,20	50 @ 250 MHz	950	0.64	400
KC2012CW221KGT	220 @ 100 MHz	2,5,10,20	45 @ 250 MHz	850	0.7	400
KC2012CW271KGT	270 @ 100 MHz	2,5,10,20	40 @ 250 MHz	680	1	350
KC2012CW331KGT	330 @ 100 MHz	2,5,10,20	40 @ 250 MHz	660	1.4	310
KC2012CW391KGT	390 @ 100 MHz	2,5,10,20	35 @ 250 MHz	560	1.5	290
KC2012CW471KGT	470 @ 50 MHz	5,10,20	33 @ 100 MHz	430	1.72	250
KC2012CW561KGT	560 @ 25 MHz	5,10,20	23 @ 50 MHz	350	1.9	230
KC2012CW621KGT	620 @ 25 MHz	5,10,20	23 @ 50 MHz	330	1.95	200
KC2012CW681KGT	680 @ 25 MHz	5,10,20	23 @ 50 MHz	300	2.05	190
KC2012CW751KGT	750 @ 25 MHz	5,10,20	23 @ 50 MHz	280	2.1	180
KC2012CW821KGT	820 @ 25 MHz	5,10,20	23 @ 50 MHz	250	2.3	180
KC2012CW911KGT	910 @ 25 MHz	5,10,20	22 @ 50 MHz	230	2.4	160
KC2012CW102KGT	1000 @ 25 MHz	5,10,20	20 @ 50 MHz	200	2.5	150

KC2012FW Series

Part Number	Inductance (nH)	Tol (%)	Q Min	SRF(Min) (MHz)	RDC(Max) (Ohms)	IDC(Max) (mA)
KC2012FW271JST	270 @ 100 MHz	5,10,20	30 @ 100 MHz	850	0.5	420
KC2012FW331JST	330 @ 100 MHz	5,10,20	35 @ 100 MHz	630	0.6	400
KC2012FW391JST	390 @ 100 MHz	5,10,20	35 @ 100 MHz	580	0.66	350
KC2012FW471KST	470 @ 100 MHz	5,10,20	35 @ 100 MHz	530	0.72	300
KC2012FW561KST	560 @ 25 MHz	5,10,20	35 @ 100 MHz	520	0.81	280
KC2012FW681KST	680 @ 25 MHz	5,10,20	30 @ 100 MHz	360	0.86	250
KC2012FW821KST	820 @ 25 MHz	5,10,20	30 @ 100 MHz	300	0.92	240
KC2012FW911KST	910 @ 25 MHz	5,10,20	28 @ 100 MHz	280	0.98	240
KC2012FW102KST	1000 @ 7.9 MHz	5,10,20	26 @ 25 MHz	260	1.08	250
KC2012FW122KST	1200 @ 7.9 MHz	5,10,20	26 @ 25MHz	210	1.13	220
KC2012FW152KST	1500 @ 7.9 MHz	5,10,20	25 @ 25MHz	200	1.73	200
KC2012FW182KST	1800 @ 7.9 MHz	5,10,20	23 @ 25MHz	160	2.15	180
KC2012FW222KST	2200 @ 7.9 MHz	5,10,20	22 @ 25MHz	150	2.4	130
KC2012FW272KST	2700 @ 7.9 MHz	5,10,20	10 @ 7.9MHz	220	2.75	120
KC2012FW332KST	3300 @ 7.9 MHz	5,10,20	10 @ 7.9MHz	190	2.95	100

KC2520CW Series

Part Number	Inductance (nH)	Tol (%)	Q Min	SRF(Min) (MHz)	RDC(Max) (Ohms)	IDC(Max) (mA)
KC2520CW4R7KGT	4.7 @ 50 MHz	10,20	60 @ 1500 MHz	>6000	0.11	1000
KC2520CW100KGT	10 @ 50 MHz	5,10,20	55 @ 500 MHz	4100	0.08	1000
KC2520CW120KGT	12 @ 50 MHz	5,10,20	65 @ 500 MHz	3400	0.09	1000
KC2520CW150KGT	15 @ 50 MHz	5,10,20	55 @ 500 MHz	2600	0.13	1000
KC2520CW180KGT	18 @ 50 MHz	5,10,20	60 @ 350 MHz	2600	0.11	1000
KC2520CW220KGT	22 @ 50 MHz	2,5,10,20	60 @ 350 MHz	2400	0.12	1000
KC2520CW270KGT	27 @ 50 MHz	2,5,10,20	60 @ 350 MHz	1700	0.13	1000
KC2520CW330KGT	33 @ 50 MHz	2,5,10,20	70 @ 350 MHz	1700	0.14	1000
KC2520CW390KGT	39 @ 50 MHz	2,5,10,20	70 @ 350 MHz	1600	0.15	1000
KC2520CW470KGT	47 @ 50 MHz	1,2,5,10,20	70 @ 350MHz	1600	0.16	1000
KC2520CW560KGT	56 @ 50 MHz	1,2,5,10,20	70 @ 350MHz	1400	0.18	1000
KC2520CW680KGT	68 @ 50 MHz	1,2,5,10,20	65 @ 350MHz	1200	0.21	1000
KC2520CW820KGT	82 @ 50 MHz	1,2,5,10,20	65 @ 350MHz	1000	0.22	1000
KC2520CW101KGT	100 @ 25 MHz	1,2,5,10,20	60 @ 350MHz	1000	0.56	650
KC2520CW121KGT	120 @ 25 MHz	1,2,5,10,20	60 @ 350MHz	1000	0.63	650
KC2520CW151KGT	150 @ 25 MHz	1,2,5,10,20	50 @ 100MHz	850	0.62	580
KC2520CW181KGT	180 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	800	0.7	620
KC2520CW221KGT	220 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	700	0.8	500
KC2520CW271KGT	270 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	700	0.91	500
KC2520CW331KGT	330 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	600	1.05	450
KC2520CW391KGT	390 @ 25 MHz	1,2,5,10,20	50 @ 100MHz	500	1.12	470
KC2520CW471KGT	470 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	500	1.19	470
KC2520CW561KGT	560 @ 25 MHz	1,2,5,10,20	50 @ 100MHz	450	1.33	400
KC2520CW621KGT	620 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	415	1.4	300
KC2520CW681KGT	680 @ 25 MHz	1,2,5,10,20	50 @ 100 MHz	375	1.47	400
KC2520CW751KGT	750 @ 25 MHz	1,2,5,10,20	45 @ 100 MHz	360	1.54	360
KC2520CW821KGT	820 @ 25 MHz	1,2,5,10,20	45 @ 100 MHz	350	1.61	400
KC2520CW911KGT	910 @ 25 MHz	1,2,5,10,20	40 @ 50 MHz	320	1.68	380
KC2520CW102KGT	1000 @ 25 MHz	1,2,5,10,20	35 @ 50 MHz	290	1.75	370
KC2520CW122KGT	1200 @ 7.9 MHz	2,5,10,20	35 @ 50 MHz	250	2	310
KC2520CW152KGT	1500 @ 7.9 MHz	2,5,10,20	28 @ 50 MHz	200	2.3	330
KC2520CW182KGT	1800 @ 7.9 MHz	2,5,10,20	28 @ 50 MHz	160	2.6	300
KC2520CW222KGT	2200 @ 7.9 MHz	2,5,10,20	28 @ 50 MHz	160	2.8	280
KC2520CW272KGT	2700 @ 7.9 MHz	2,5,10,20	22 @ 25 MHz	140	3.2	290
KC2520CW332KGT	3300 @ 7.9 MHz	2,5,10,20	22 @ 25 MHz	110	3.4	290
KC2520CW392KGT	3900 @ 7.9 MHz	2,5,10,20	20 @ 25 MHz	100	3.6	260
KC2520CW472KGT	4700 @ 7.9 MHz	2,5,10,20	20 @ 25 MHz	90	4	260
KC2520CW562KGT	5600 @ 7.9 MHz	5,10,20	20 @ 25 MHz	80	5.7	240
KC2520CW682KGT	6800 @ 7.9 MHz	5,10,20	20 @ 25 MHz	70	7.7	200
KC2520CW822KGT	8200 @ 7.9 MHz	5,10,20	20 @ 25 MHz	60	10.7	150

KC2520FW Series

Part Number	Inductance (nH)	Tol (%)	Q Min	SRF(Min) (MHz)	RDC(Max) (Ohms)	IDC(Max) (mA)
KC2520FW122JST	1200 @ 7.9 MHz	5,10,20	37 @ 50 MHz	250	0.7	650
KC2520FW152JST	1500 @ 7.9 MHz	5,10,20	35 @ 50 MHz	200	0.75	630
KC2520FW182JST	1800 @ 7.9 MHz	5,10,20	33 @ 50 MHz	170	0.84	600
KC2520FW222KST	2200 @ 7.9 MHz	5,10,20	30 @ 50 MHz	160	1.15	520
KC2520FW272KST	2700 @ 7.9 MHz	5,10,20	25 @ 50 MHz	120	1.3	490
KC2520FW332KST	3300 @ 7.9 MHz	5,10,20	23 @ 50 MHz	120	1.7	450
KC2520FW392KST	3900 @ 7.9 MHz	5,10,20	26 @ 25 MHz	110	2	420
KC2520FW472KST	4700 @ 7.9 MHz	5,10,20	25 @ 25 MHz	100	2.45	400
KC2520FW562KST	5600 @ 7.9 MHz	5,10,20	23 @ 7.9 MHz	80	2.65	380
KC2520FW682KST	6800 @ 7.9 MHz	5,10,20	20 @ 7.9 MHz	70	3	360
KC2520FW822KST	8200 @ 7.9 MHz	5,10,20	20 @ 7.9 MHz	40	3.3	330
KC2520FW103KST	10000 @ 7.9 MHz	5,10,20	15 @ 7.9 MHz	60	2.8	300