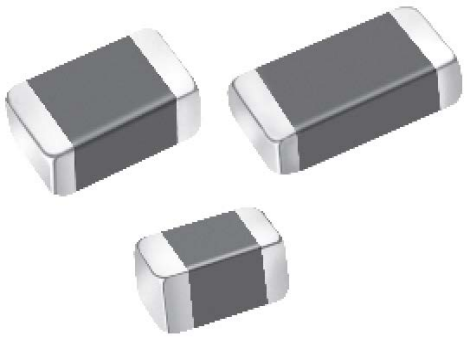
Ferrite inductor

FEATURES



- Multi-layer monolithic structure, high reliability
- Small parasitic capacitance
- Using magnetic shielding structure, crosstalk will not occur between circuits, and high-density installation can be achieved
- Operating temperature range: -55℃-125℃

APPLICATIONS

- Low speed signal line noise suppression of intelligent broadband, automotive electronics, communication equipment, consumer electronics, office automation and other electronic equipment

PRODUCT IDENTIFICATION

SKCI 2012 C 4R7 K T (f)

Product Code

Dimension ：**L** × **W** (mm)
1608：1.6×0.8
2012：2.0×1.2
3216：3.2×1.6

Material Code：
A,B,C,D,E

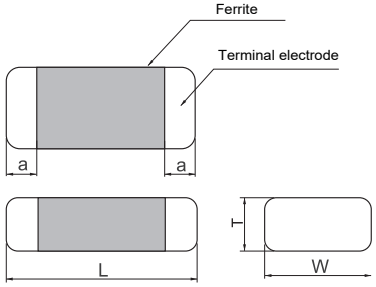
Inductance Value
47N：0.047μH
R47：0.47μH
4R7：4.7μH
470：47μH

Inductance Tolerance
J：±5%
K：±10%

Packaging Style
T：Tape & Reel
B：Bulk
(T is not specified as the default)

ROHS compliant product identification

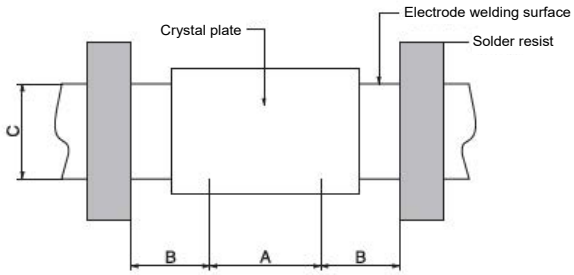
STANDARD EXTERNAL DIMENSIONS



Unit：mm

specification	dimensions			
	L	W	T	a
SKCI1608	1.6±0.15	0.8±0.15	0.8±0.15	0.30±0.20
SKCI2012	2.0±0.20	1.2±0.20	0.8±0.15	0.40±0.20
SKCI3216	3.2±0.20	1.6±0.20	0.8±0.20	0.50±0.30

RECOMMENDED PAD SIZE



Unit：mm

specification	dimensions		
	A	B	C
SKCI1608	0.8	0.6	0.8
SKCI2012	1.0	0.8	1.2
SKCI3216	2.2	1.1	1.6

SPECIFICATIONS

SKCI1608 TYPE

Part Number	Inductance	Quality Factor	L,Q Test Freq. L/Q	Inductance Tolerance	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	MHz/V	-	MHz	Ω	mA
Symbol	L	Q	Freq	-	S.R.F	DCR	Ir
SKCI1608A68N	0.068	10	50/0.05	J,K	250	0.10	55
SKCI1608A82N	0.082	10	50/0.05	J,K	245	0.15	55
SKCI1608AR10	0.10	15	25/0.05	J,K	240	0.20	55
SKCI1608AR12	0.12	15	25/0.05	J,K	205	0.20	50
SKCI1608AR15	0.15	15	25/0.05	J,K	180	0.25	50
SKCI1608AR18	0.18	15	25/0.05	J,K	165	0.40	50
SKCI1608AR22	0.22	15	25/0.05	J,K	150	0.50	50
SKCI1608AR27	0.27	15	25/0.05	J,K	136	0.55	50
SKCI1608AR33	0.33	15	25/0.05	J,K	125	0.60	38
SKCI1608AR39	0.39	15	25/0.05	J,K	110	0.60	38
SKCI1608AR47	0.47	15	25/0.05	J,K	105	0.70	38
SKCI1608AR56	0.56	15	25/0.05	J,K	95	0.85	38
SKCI1608AR68	0.68	15	25/0.05	J,K	90	0.95	35
SKCI1608AR82	0.82	15	25/0.05	J,K	90	1.00	35
SKCI1608B1R0	1.0	35	10/0.05	J,K	90	0.65	28
SKCI1608B1R2	1.2	35	10/0.05	J,K	85	0.70	28
SKCI1608B1R5	1.5	35	10/0.05	J,K	80	0.80	28
SKCI1608B1R8	1.8	35	10/0.05	J,K	75	0.85	28
SKCI1608B2R2	2.2	35	10/0.05	J,K	70	0.85	15
SKCI1608B2R7	2.7	35	10/0.05	J,K	45	1.00	15
SKCI1608B3R3	3.3	35	10/0.05	J,K	40	1.25	15
SKCI1608B3R9	3.9	35	10/0.05	J,K	36	1.35	15
SKCI1608B4R7	4.7	35	10/0.05	J,K	33	1.50	15
SKCI1608C5R6	5.6	35	4/0.05	J,K	22	1.35	15
SKCI1608C6R8	6.8	35	4/0.05	J,K	20	1.40	5
SKCI1608C8R2	8.2	35	4/0.05	J,K	18	1.60	5

SKCI2012 TYPE

Part Number	Inductance	Quality Factor	L,Q Test Freq. L/Q	Inductance Tolerance	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	MHz/V	-	MHz	Ω	mA
Symbol	L	Q	Freq	-	S.R.F	DCR	Ir
SKCI2012A56N	0.056	15	50/0.05	J,K	300	0.10	320
SKCI2012A68N	0.068	15	50/0.05	J,K	280	0.10	320
SKCI2012A82N	0.082	15	50/0.05	J,K	255	0.10	320
SKCI2012AR10	0.10	20	25/0.05	J,K	235	0.15	270
SKCI2012AR12	0.12	20	25/0.05	J,K	220	0.15	270
SKCI2012AR15	0.15	20	25/0.05	J,K	200	0.15	270
SKCI2012AR18	0.18	20	25/0.05	J,K	185	0.15	270
SKCI2012AR22	0.22	20	25/0.05	J,K	170	0.20	270
SKCI2012AR27	0.27	20	25/0.05	J,K	150	0.20	270
SKCI2012AR33	0.33	20	25/0.05	J,K	145	0.25	270
SKCI2012AR39	0.39	25	25/0.05	J,K	135	0.35	220
SKCI2012AR47	0.47	25	25/0.05	J,K	125	0.45	220
SKCI2012AR56	0.56	25	25/0.05	J,K	115	0.55	150
SKCI2012AR68	0.68	25	25/0.05	J,K	105	0.65	160
SKCI2012AR82	0.82	25	25/0.05	J,K	100	0.75	150
SKCI2012B1R0	1.0	45	10/0.05	J,K	75	0.30	50
SKCI2012B1R2	1.2	45	10/0.05	J,K	65	0.30	50
SKCI2012B1R5	1.5	45	10/0.05	J,K	60	0.40	50
SKCI2012B1R8	1.8	45	25/0.05	J,K	55	0.50	50
SKCI2012B2R2	2.2	45	25/0.05	J,K	50	0.55	35
SKCI2012B2R7	2.7	45	10/0.05	J,K	45	0.65	35
SKCI2012B3R3	3.3	45	10/0.05	J,K	41	0.70	30
SKCI2012B3R9	3.9	45	10/0.05	J,K	38	0.75	30
SKCI2012B4R7	4.7	45	10/0.05	J,K	35	0.85	30
SKCI2012C5R6	5.6	50	4/0.05	J,K	32	0.75	15
SKCI2012C6R8	6.8	50	4/0.05	J,K	29	0.80	15
SKCI2012C8R2	8.2	50	4/0.05	J,K	26	0.90	15
SKCI2012C100	10	50	2/0.05	J,K	24	1.00	15
SKCI2012C120	12	50	2/0.05	J,K	22	1.15	15
SKCI2012D150	15	30	1/0.05	J,K	19	0.80	5
SKCI2012D180	18	30	1/0.05	J,K	18	0.90	5
SKCI2012D220	22	30	1/0.05	J,K	16	1.10	5

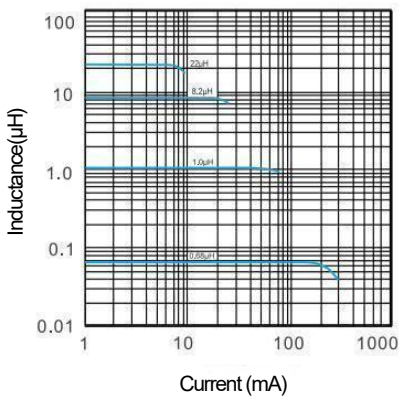
SKCI3216 TYPE

Part Number	Inductance	Quality Factor	L,Q Test Freq. L/Q	Inductance Tolerance	Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
Units	μH	-	MHz/V	-	MHz	Ω	mA
Symbol	L	Q	Freq	-	S.R.F	DCR	Ir
SKCI3216B1R0	1.0	45	10/0.05	J,K	75	0.25	110
SKCI3216B1R2	1.2	45	10/0.05	J,K	65	0.30	110
SKCI3216B1R5	1.5	45	10/0.05	J,K	60	0.35	55
SKCI3216B1R8	1.8	45	10/0.05	J,K	55	0.40	55
SKCI3216B2R2	2.2	45	10/0.05	J,K	50	0.45	55
SKCI3216B2R7	2.7	45	10/0.05	J,K	45	0.50	50
SKCI3216B3R3	3.3	45	10/0.05	J,K	41	0.55	50
SKCI3216B3R9	3.9	45	10/0.05	J,K	38	0.60	50
SKCI3216B4R7	4.7	45	10/0.05	J,K	35	0.60	50
SKCI3216C5R6	5.6	50	4/0.05	J,K	32	0.50	28
SKCI3216C6R8	6.8	50	4/0.05	J,K	29	0.55	28
SKCI3216C8R2	8.2	50	4/0.05	J,K	26	0.60	25
SKCI3216C100	10	50	2/0.05	J,K	24	0.65	25
SKCI3216C120	12	50	2/0.05	J,K	22	0.70	15

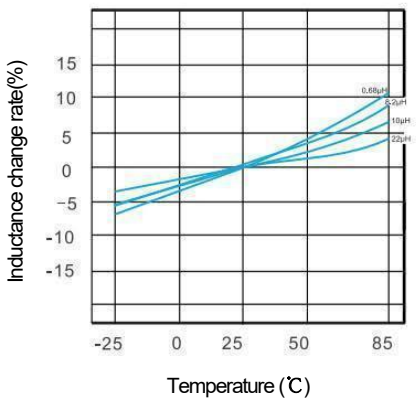
TYPICAL ELECTRICAL CHARACTERISTICS

SKCI1608 TYPE

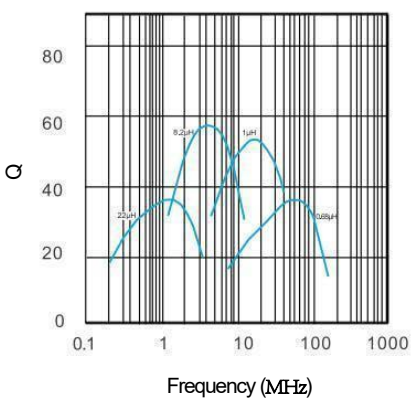
Inductance vs. Current Characteristics



Inductance change rate vs. Temperature Characteristics

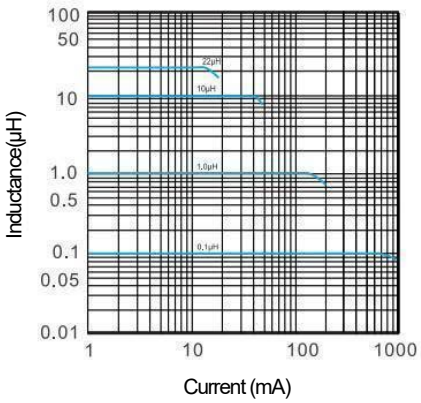


Q vs. Frequency Characteristics

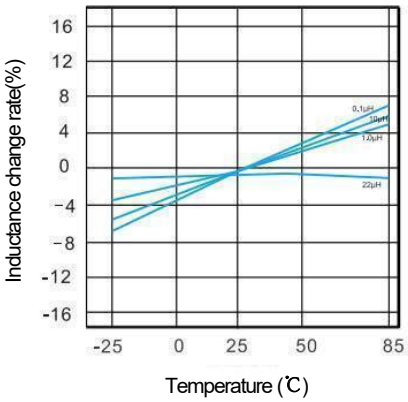


SKCI2012 TYPE

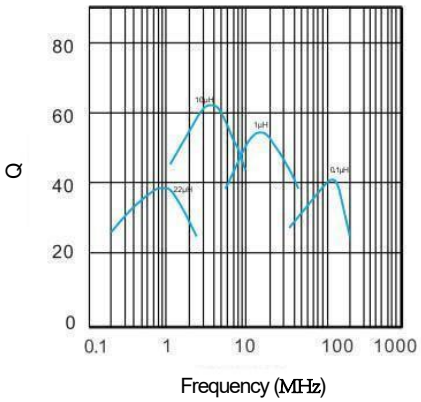
Inductance vs. Current Characteristics



Inductance change rate vs. Temperature Characteristics

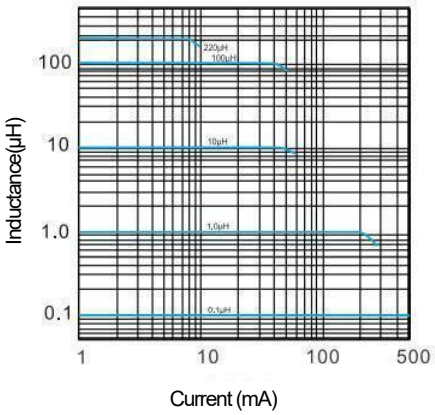


Q vs. Frequency Characteristics

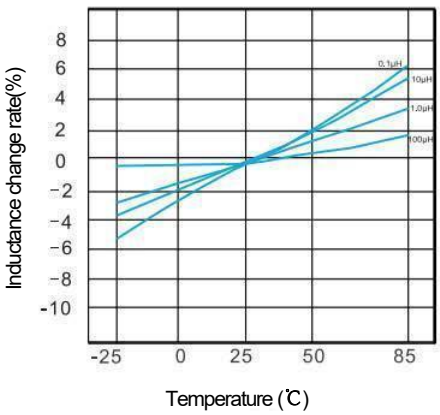
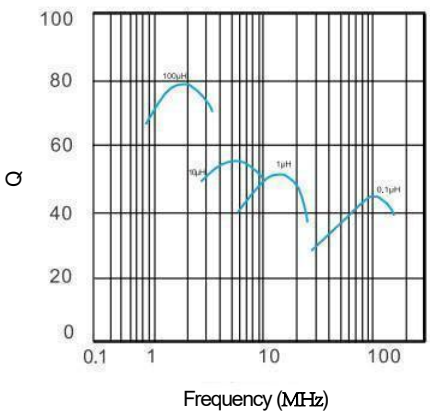


SKCI3216 TYPE

Inductance vs. Current Characteristics



Inductance change rate vs. Temperature Characteristics



Q vs. Frequency Characteristics