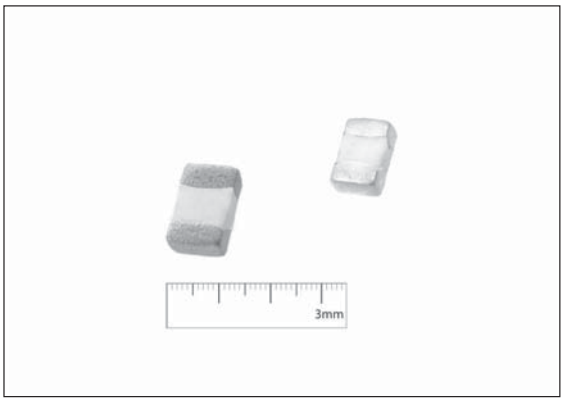
MULTILAYER CERMAIC CHIP INDUCTORS
(CB SERIES)

trio



● PART NUMBERING

CB - □□□ □ □□ □ □□
(1) (2) (3) (4) (5) (6)

(1) Series
(2) Inductance
(3) Tolerance
(4) Dimension
(5) Material
(6) Internal Serial No.

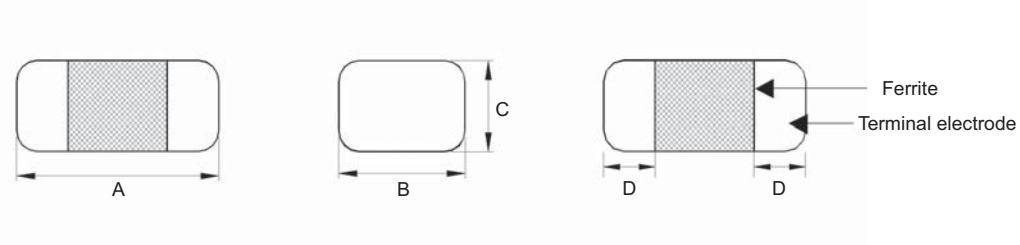
● FEATURES

- Monolithic inorganic material construction.
- Closed magnetic circuit avoids crosstalk.
- Suitable for flow and reflow soldering.
- Available in various sizes.
- Excellent solderability and heat resistance.
- High SRF up to 6GHz and above.

● APPLICATIONS

- Wireless communication devices, cellular phones, and cordless phones, etc.
- Miscellaneous high-frequency circuits
- EMI countermeasure in high-frequency circuits

● CONFIGURATIONS & DIMENSIONS



Unit : mm

SERIES	Inductance	A	B	C	D
CB-01□		1.0±0.10	0.5±0.10	0.5±0.10	0.25±0.10
CB-02□		1.6±0.15	0.8±0.15	0.8±0.15	0.30±0.20
CB-03□	＜390nH	2.0±0.20	1.25±0.20	0.9±0.20	0.50±0.30
	≧390nH			1.2±0.20	

• For packaging information, please refer to page P.180.
• Operating temperature range : -40°C to +105°C

CB
01

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				100MHz (Min.)	100MHz (Typ.)	800MHz (Typ.)			
CB-10D□011□□	CCIG100505-1N0□	1.0	100	8	9	28	10000	0.10	400
CB-12D□011□□	CCIG100505-1N2□	1.2	100	8	9	28	10000	0.10	400
CB-15D□011□□	CCIG100505-1N5□	1.5	100	8	10	28	9000	0.10	400
CB-18D□011□□	CCIG100505-1N8□	1.8	100	8	10	28	8700	0.10	400
CB-22D□011□□	CCIG100505-2N2□	2.2	100	8	10	29	8100	0.15	400
CB-27D□011□□	CCIG100505-2N7□	2.7	100	8	11	30	7700	0.15	400
CB-33D□011□□	CCIG100505-3N3□	3.3	100	8	11	30	6300	0.15	400
CB-39D□011□□	CCIG100505-3N9□	3.9	100	8	11	31	6100	0.20	400
CB-47D□011□□	CCIG100505-4N7□	4.7	100	8	11	31	5400	0.20	400
CB-56D□011□□	CCIG100505-5N6□	5.6	100	8	11	31	5100	0.20	400
CB-68D□011□□	CCIG100505-6N8□	6.8	100	8	11	33	4550	0.25	400
CB-82D□011□□	CCIG100505-8N2□	8.2	100	8	12	32	4100	0.30	300
CB-10C□011□□	CCIG100505-10N□	10	100	8	12	32	3900	0.35	300
CB-12C□011□□	CCIG100505-12N□	12	100	8	12	31	3000	0.40	300
CB-15C□011□□	CCIG100505-15N□	15	100	8	12	30	2600	0.50	300
CB-18C□011□□	CCIG100505-18N□	18	100	8	12	29	2350	0.55	300
CB-22C□011□□	CCIG100505-22N□	22	100	8	12	28	2000	0.70	300
CB-27C□011□□	CCIG100505-27N□	27	100	8	12	27	1900	0.80	300
CB-33C□011□□	CCIG100505-33N□	33	100	8	10	25	1700	1.00	200
CB-39C□011□□	CCIG100505-39N□	39	100	8	10	25	1600	1.20	150
CB-47C□011□□	CCIG100505-47N□	47	100	8	9	22	1300	1.30	150
CB-56C□011□□	CCIG100505-56N□	56	100	8	10	21	1250	2.00	150
CB-68C□011□□	CCIG100505-68N□	68	100	8	10	15	1000	2.20	100
CB-82C□011□□	CCIG100505-82N□	82	100	8	9	13	900	2.50	100
CB-10B□011□□	CCIG100505-R10□	100	100	8	9	10	850	2.50	100

• Operating temperature range : -40°C to +105°C

● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				100MHz (Min.)	100MHz (Typ.)	800MHz (Typ.)			
CB-10D□021□□	CCIG160808-1N0□	1.0	100	8	12	60	10000	0.10	500
CB-12D□021□□	CCIG160808-1N2□	1.2	100	8	13	60	10000	0.10	500
CB-15D□021□□	CCIG160808-1N5□	1.5	100	8	13	57	8000	0.10	500
CB-18D□021□□	CCIG160808-1N8□	1.8	100	8	13	51	8000	0.10	500
CB-22D□021□□	CCIG160808-2N2□	2.2	100	8	13	46	7200	0.10	500
CB-27D□021□□	CCIG160808-2N7□	2.7	100	10	13	46	6200	0.10	500
CB-33D□021□□	CCIG160808-3N3□	3.3	100	10	13	47	5200	0.12	500
CB-39D□021□□	CCIG160808-3N9□	3.9	100	10	13	47	5000	0.14	500
CB-47D□021□□	CCIG160808-4N7□	4.7	100	10	13	41	4750	0.16	500
CB-56D□021□□	CCIG160808-5N6□	5.6	100	10	13	41	4100	0.18	500
CB-68D□021□□	CCIG160808-6N8□	6.8	100	10	13	44	3750	0.22	500
CB-82D□021□□	CCIG160808-8N2□	8.2	100	10	13	44	3300	0.24	500
CB-10C□021□□	CCIG160808-10N□	10	100	12	13	45	3000	0.26	300
CB-12C□021□□	CCIG160808-12N□	12	100	12	15	46	2600	0.28	300
CB-15C□021□□	CCIG160808-15N□	15	100	12	15	48	2500	0.32	300
CB-18C□021□□	CCIG160808-18N□	18	100	12	15	48	2400	0.35	300
CB-22C□021□□	CCIG160808-22N□	22	100	12	17	45	2000	0.40	300
CB-27C□021□□	CCIG160808-27N□	27	100	12	17	43	1900	0.45	300
CB-33C□021□□	CCIG160808-33N□	33	100	12	18	39	1600	0.55	300

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				100MHz (Min.)	100MHz (Typ.)	500MHz (Typ.)			
CB-39C□021□□	CCIG160808-39N□	39	100	12	18	37	1400	0.60	300
CB-47C□021□□	CCIG160808-47N□	47	100	12	18	35	1300	0.70	300
CB-56C□021□□	CCIG160808-56N□	56	100	12	18	32	1100	0.75	300
CB-62C□021□□	CCIG160808-62N□	62	100	12	18	34	1050	0.85	300
CB-68C□021□□	CCIG160808-68N□	68	100	12	18	34	1050	0.85	300
CB-82C□021□□	CCIG160808-82N□	82	100	12	18	32	900	1.00	300
CB-10B□021□□	CCIG160808-R10□	100	100	12	18	20	770	1.20	300

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				50MHz (Min.)	50MHz (Typ.)	300MHz (Typ.)			
CB-12B□021□□	CCIG160808-R12□	120	100	8	14	20	850	2.30	250
CB-15B□021□□	CCIG160808-R15□	150	100	8	15	16	550	2.40	250
CB-18B□021□□	CCIG160808-R18□	180	100	8	15	16	520	2.70	250
CB-22B□021□□	CCIG160808-R22□	220	100	8	15	16	500	3.00	250

• Operating temperature range : -40°C to +105°C

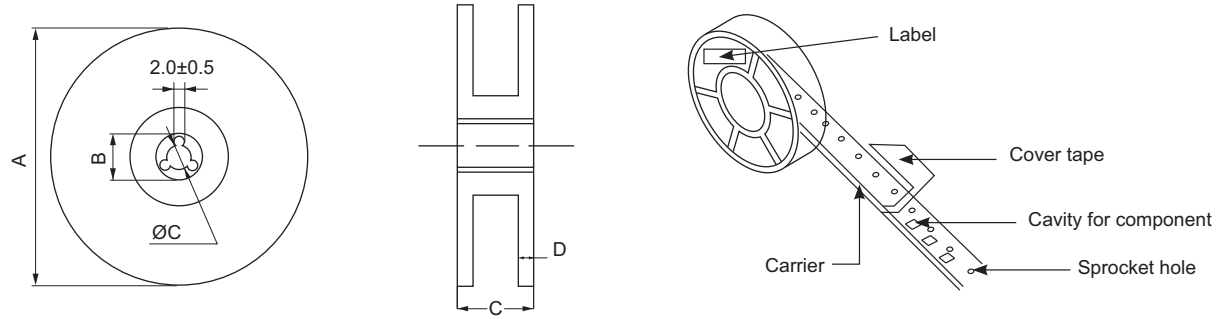
● ELECTRICAL CHARACTERISTICS

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				100MHz (Min.)	100MHz (Typ.)	800MHz (Typ.)			
CB-10D□031□□	CCIG201209-1N0□	1.0	100	10	13	40	>6000	0.10	300
CB-12D□031□□	CCIG201209-1N2□	1.2	100	10	13	45	>6000	0.10	300
CB-15D□031□□	CCIG201209-1N5□	1.5	100	10	13	40	>6000	0.10	300
CB-18D□031□□	CCIG201209-1N8□	1.8	100	10	13	45	>6000	0.10	300
CB-22D□031□□	CCIG201209-2N2□	2.2	100	10	13	48	>6000	0.10	300
CB-27D□031□□	CCIG201209-2N7□	2.7	100	12	13	48	>6000	0.10	300
CB-33D□031□□	CCIG201209-3N3□	3.3	100	12	15	56	>6000	0.13	300
CB-39D□031□□	CCIG201209-3N9□	3.9	100	12	15	54	5400	0.15	300
CB-47D□031□□	CCIG201209-4N7□	4.7	100	12	15	50	4500	0.20	300
CB-56D□031□□	CCIG201209-5N6□	5.6	100	12	15	53	4000	0.23	300
CB-68D□031□□	CCIG201209-6N8□	6.8	100	15	15	51	3650	0.25	300
CB-82D□031□□	CCIG201209-8N2□	8.2	100	15	15	53	3000	0.28	300
CB-10C□031□□	CCIG201209-10N□	10	100	15	16	45	2500	0.30	300
CB-12C□031□□	CCIG201209-12N□	12	100	15	16	48	2450	0.35	300
CB-15C□031□□	CCIG201209-15N□	15	100	15	17	48	2000	0.40	300
CB-18C□031□□	CCIG201209-18N□	18	100	15	17	43	1750	0.45	300
CB-22C□031□□	CCIG201209-22N□	22	100	15	17	40	1700	0.50	300
CB-27C□031□□	CCIG201209-27N□	27	100	15	18	38	1550	0.55	300
CB-33C□031□□	CCIG201209-33N□	33	100	15	19	35	1350	0.60	300
CB-39C□031□□	CCIG201209-39N□	39	100	18	21	37	1300	0.65	300
CB-47C□031□□	CCIG201209-47N□	47	100	18	21	38	1200	0.70	300
CB-56C□031□□	CCIG201209-56N□	56	100	18	21	31	1150	0.75	300
CB-68C□031□□	CCIG201209-68N□	68	100	18	21	28	1000	0.80	300
CB-82C□031□□	CCIG201209-82N□	82	100	18	22	16	850	0.90	300
CB-10B□031□□	CCIG201209-R10□	100	100	18	23	-	730	1.00	300

New Part No.	Old Part No.	L (nH)	FREQ. (MHz)	Q			SRF (MHz, Typ.)	DCR (Ω, Max)	IDC (mA, Max.)
				50MHz (Min.)	50MHz (Typ.)	100MHz (Typ.)			
CB-12B□031□□	CCIG201209-R12□	120	100	13	16	22	650	1.20	300
CB-15B□031□□	CCIG201209-R15□	150	100	13	16	22	550	1.40	300
CB-18B□031□□	CCIG201212-R18□	180	100	13	16	23	500	1.80	300
CB-22B□031□□	CCIG201212-R22□	220	100	12	14	20	450	2.00	300
CB-27B□031□□	CCIG201212-R27□	270	100	12	14	20	400	2.50	200
CB-33B□031□□	CCIG201212-R33□	330	100	12	14	22	380	3.00	200
CB-39B□031□□	CCIG201212-R39□	390	100	10	14	22	330	3.50	200
CB-47B□031□□	CCIG201212-R47□	470	100	10	14	22	300	4.00	200

• Operating temperature range : -40°C to +105°C

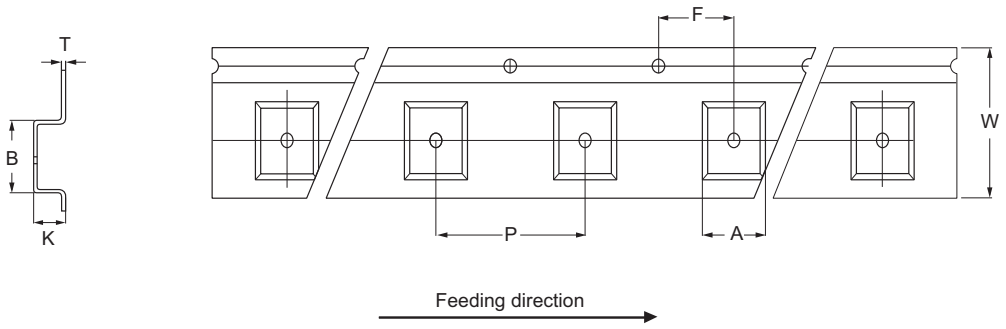
● PACKAGING INFORMATION



● REEL Dimensions

Unit : mm

SERIES	A	B	C	D	PCS/REEL
CB-01□	178	60	12	1.5	10,000
CB-02□	178	60	12	1.5	4,000
CB-03□	178	60	12	1.5	4,000



● TAPE Dimensions

Unit : mm

SERIES	A	B	T	W	P	F	K
CB-01□	0.65±0.1	1.15±0.1	0.60±0.05	8.00±0.2	2.00±0.1	2.0±0.05	N/A
CB-02□	1.00±0.1	1.80±0.1	0.95±0.05	8.00±0.2	4.00±0.1	2.0±0.05	N/A
CB-03□	1.42±0.1	2.25±0.1	0.22±0.05	8.00±0.2	4.00±0.1	2.0±0.05	1.04±0.05