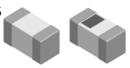
Multilayer Chip Ceramic Inductor – SDCL-D Series

Operating Temp. : SDCL1005 series: -55℃~+125℃ SDCL1608 series: -40°C~+85°C



FEATURES

- Monolithic structure for high reliability
- High self-resonant frequency
- Excellent solderability and high heat resistance

APPLICATIONS

• RF circuit in telecommunication and other equipments

PRODUCT	IDENTIFICATION						
SDCL	<u>1608</u>	<u>C</u>	10N ④	<u>J</u>	<u>T</u>	<u>D</u>	<u>F</u>
1		2		3)		
SDCL	Type Chip Ceramic Inductor	External Dime	nsions (L×W) (mı	m)	Mate	erial Code C	
ODOL	Only Ocianic inductor	1005 [0402]	1.0×0.5				
4		1608 [0603]	1.6×0.8	(5)			
Nor	minal Inductance				Inducta	nce Tolerance	
Example	Nominal Value	6			S	±0.3nH	
3N9						±5%	
10N	10nH	P - P	acking		K	±10%	
R10	100nH	ı	Tape & Reel				
※R=小数点	点,N=nH			(8	3)		
		7				ous Substance e Products	
		Inte	ernal Code		F		

D

SHAPE AND DIMENSIONS

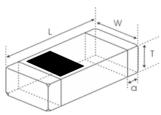
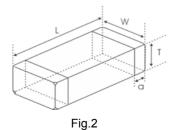


Fig.1



				Unit:	mm [inch
Type	L	W	Т	а	
SDCL1005 [0402]	1.0±0.15 [.039±.006]	0.5±0.15 [.020±.006]	0.5±0.15 [.020±.006]	0.25±0.1 [.010±.004]	Fig.1
SDCL1608	1.6±0.15 [.063±.006]	0.8±0.15	0.8±0.15	0.3±0.2	F: 0
[0603]	1.65±0.15 [.065±.006]	[.031±.006]	[.031±.006]	[.012±.008]	Fig.2



SPECIFICATIONS

SDCL1005-D Series

ODOL 1000-D OCIN	SDCL 1005-D Series								
	Min. L,Q Test Typical Q @ Freq. (MH			q. (MHz)	Min.		Max.		
Part Number	Inductance	Quality		, , , , , , , , , , , , , , , , , , ,			Self-resonant	Max. DC	Rated
Fait Number	muuctance	Factor	Freq. L/Q	100	800	1000	Frequency	Resistance	Current
		racioi	L/Q		000	.000	Frequency		Current
Units	nH	-	MHz		-		MHz	Ω	mA
Symbol	L	Q	Freq	Q		S.R.F	DCR	lr	
SDCL1005C1N0STDF	1.0±0.3	8	100	11	34	36	10000	0.10	400
SDCL1005C1N1STDF	1.1±0.3	8	100	11	34	36	10000	0.10	400
SDCL1005C1N2STDF	1.2±0.3	8	100	11	34	36	10000	0.10	400
SDCL1005C1N3STDF	1.3±0.3	8	100	11	34	36	10000	0.10	400
SDCL1005C1N5STDF	1.5±0.3	8	100	11	34	36	6000	0.10	300
SDCL1005C1N6STDF	1.6±0.3	8	100	11	32	35	6000	0.10	300
SDCL1005C1N8STDF	1.8±0.3	8	100	11	30	34	6000	0.10	300
SDCL1005C2N0STDF	2.0±0.3	8	100	10	29	33	6000	0.20	300
SDCL1005C2N2STDF	2.2±0.3	8	100	10	29	33	6000	0.20	300
SDCL1005C2N4STDF	2.4±0.3	8	100	10	29	32	6000	0.20	300
SDCL1005C2N7STDF	2.7±0.3	8	100	10	29	32	6000	0.20	300
SDCL1005C3N0STDF	3.0±0.3	8	100	10	29	32	6000	0.20	300
SDCL1005C3N3STDF	3.3±0.3	8	100	10	29	32	6000	0.20	300
SDCL1005C3N6STDF	3.6±0.3	8	100	10	28	31	4000	0.20	300
SDCL1005C3N9STDF	3.9±0.3	8	100	10	28	31	4000	0.20	300
SDCL1005C4N3STDF	4.3±0.3	8	100	10	28	31	4000	0.20	300
SDCL1005C4N7STDF	4.7±0.3	8	100	10	28	31	4000	0.20	300
SDCL1005C5N1STDF	5.1±0.3	8	100	10	28	30	4000	0.30	300
SDCL1005C5N6STDF	5.6±0.3	8	100	10	28	30	4000	0.30	300
SDCL1005C6N2STDF	6.2±0.3	8	100	10	27	30	3900	0.30	300
SDCL1005C6N8□TDF	6.8	8	100	10	27	30	3900	0.30	300
SDCL1005C7N5□TDF	7.5	8	100	10	27	30	3700	0.40	300
SDCL1005C8N2□TDF	8.2	8	100	10	27	30	3600	0.40	300
SDCL1005C9N1□TDF	9.1	8	100	10	27	30	3400	0.40	300
SDCL1005C10N□TDF	10	8	100	10	27	30	3200	0.40	300
SDCL1005C12N□TDF	12	8	100	10	26	29	2700	0.50	300
SDCL1005C15N□TDF	15	8	100	10	26	28	2300	0.50	300
SDCL1005C18N□TDF	18	8	100	10	25	27	2100	0.60	300
SDCL1005C20N□TDF	20	8	100	10	25	26	2000	0.60	300
SDCL1005C22N□TDF	22	8	100	10	25	25	1900	0.60	300
SDCL1005C27N□TDF	27	8	100	10	25	23	1600	0.70	300
SDCL1005C33N□TDF		8	100	10	22	22	1300	0.80	200
SDCL1005C39N□TDF	39	8	100	10	22	19	1200	1.00	200
SDCL1005C43N□TDF	43	8	100	10	21	16	1100	1.10	200
SDCL1005C47N□TDF	47	8	100	10	21	16	1000	1.10	200
SDCL1005C56N□TDF	56	8	100	10	18	13	750	1.20	200
SDCL1005C68N□TDF	68	8	100	10	18	9	750	1.40	180
SDCL1005C82N□TDF	82	8	100	10	13	-	750	2.40	150
SDCL1005CR10□TDF	100	8	100	10	12	-	700	2.60	150
SDCL1005CR12□TDF	120	8	100	10	-	-	600	2.80	150
SDCL1005CR15□TDF	150	8	100	10	-	-	550	3.20	100
SDCL1005CR18□TDF	180	8	100	10	-	-	500	3.70	100
SDCL1005CR22□TDF	220	8	100	12	-	-	450	4.00	100
SDCL1005CR27□TDF	270	8	100	12	-	-	400	4.50	100
SDCL1005CR30□TDF	300	6	50	12	-	-	350	7.00	50
SDCL1005CR33□TDF	330	6	50	8	-	-	350	7.00	50
SDCL1005CR36□TDF	360	6	50	8	-	-	300	7.50	50
				<u> </u>					

 $[\]times \square$: Please specify the inductance tolerance code (J= \pm 5%, K= \pm 10%). The product with tolerance less than \pm 5%, \pm 10% is also available. Please contact your local sales.



SPECIFICATIONS

SDCL1608-D Series

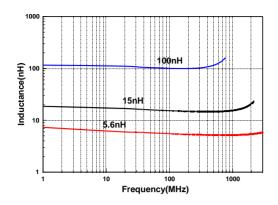
		Min.	L,Q Test				Min.	Max. DC	Max.
Part Number	Inductance	Quality Factor	Freq. L/Q	100	800	1000	Self-resonant Frequency	Resistance	Rated Current
Units	nH	-	MHz	-		MHz	Ω	mA	
Symbol	L	Q	Freq		Q		S.R.F	DCR	Ir
SDCL1608C1N0STDF	1.0±0.3	8	100	13	70	80	10000	0.05	500
SDCL1608C1N2STDF	1.2±0.3	8	100	13	60	70	10000	0.05	500
SDCL1608C1N5STDF	1.5±0.3	8	100	13	47	68	6000	0.10	500
SDCL1608C1N8STDF	1.8±0.3	8	100	13	45	61	6000	0.10	500
SDCL1608C2N2STDF	2.2±0.3	8	100	13	45	60	6000	0.10	500
SDCL1608C2N7STDF	2.7±0.3	10	100	13	44	55	6000	0.12	500
SDCL1608C3N3STDF	3.3±0.3	10	100	13	43	50	6000	0.15	500
SDCL1608C3N9STDF	3.9±0.3	10	100	13	43	50	6000	0.16	500
SDCL1608C4N7STDF	4.7±0.3	10	100	13	43	50	6000	0.20	500
SDCL1608C5N6STDF	5.6±0.3	10	100	14	42	48	5000	0.25	500
SDCL1608C6N8□TDF	6.8	10	100	14	43	50	5000	0.30	500
SDCL1608C8N2□TDF	8.2	10	100	14	43	48	4500	0.35	500
SDCL1608C10N□TDF	10	12	100	15	45	50	3500	0.40	300
SDCL1608C12N□TDF	12	12	100	18	48	50	3000	0.45	300
SDCL1608C15N□TDF	15	12	100	18	48	50	2300	0.50	300
SDCL1608C18N□TDF	18	12	100	16	48	51	2200	0.55	300
SDCL1608C22N□TDF	22	12	100	16	45	48	2000	0.60	300
SDCL1608C27N□TDF	27	12	100	16	45	45	1700	0.65	300
SDCL1608C33N□TDF	33	12	100	16	45	41	1500	0.70	300
SDCL1608C39N□TDF	39	12	100	17	40	48	1400	0.70	300
SDCL1608C47N□TDF	47	12	100	17	35	35	1200	0.70	300
SDCL1608C56N□TDF	56	12	100	17	35	30	1100	0.75	300
SDCL1608C68N□TDF	68	12	100	17	30	20	900	0.85	300
SDCL1608C82N□TDF	82	8	100	15	22	-	800	1.00	300
SDCL1608CR10□TDF	100	8	100	15	16	-	700	1.20	300
SDCL1608CR12□TDF*	120	8	50	15	-	-	600	1.40	200
SDCL1608CR15□TDF*	150	8	50	15	-	-	500	1.60	200
SDCL1608CR18□TDF*	180	8	50	15	-	-	400	1.90	200
SDCL1608CR22□TDF*	220	8	50	15	-	-	350	2.40	200
SDCL1608CR27□TDF*	270	8	50	16	-	-	350	2.60	150
SDCL1608CR33□TDF*	330	8	50	16	-	-	350	2.80	150
SDCL1608CR39□TDF*	390	8	50	16	-	-	300	3.20	150
SDCL1608CR43□TDF*	430	8	50	16	-	-	280	3.40	150
SDCL1608CR47□TDF*	470	8	50	15	-	-	250	3.60	150
SDCL1608CR56□TDF*	560	8	50	15	-	-	250	4.00	100
SDCL1608CR68□TDF*	680	8	50	15	-	-	250	4.50	100

 $[\]mathbb{X}$: Please specify the inductance tolerance code (J= \pm 5%, K= \pm 10%). The product with tolerance less than \pm 5%, \pm 10% is also available. Please contact your local sales. \mathbb{X}^* : The length: 1.65 \pm 0.15mm, for others: 1.60 \pm 0.15mm.

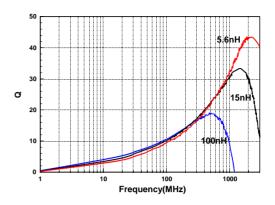


TYPICAL ELECTRICAL CHARACTERISTICS

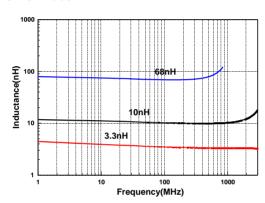
SDCL1005-D TYPE



SDCL1005-D TYPE



SDCL1608-D TYPE



SDCL1608-D TYPE

