

Multilayer Chip Ceramic Inductor - SDCL0402H-01 Series

Operating Temp. : -55°C~+125°C



FEATURES

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

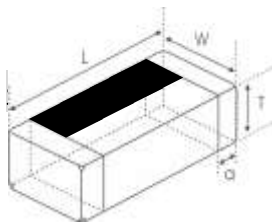
APPLICATIONS

- RF circuit in telecommunication and other equipments

PRODUCT IDENTIFICATION

<u>SDCL</u> ①	<u>0402</u> ②	<u>H</u> ③	<u>3N0</u> ④	<u>B</u> ⑤	<u>T</u> ⑥	<u>01</u> ⑦																															
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SHAPE AND DIMENSIONS



Unit: mm [inch]

Type	L	W	T	a
SDCL0402H-01 [01005]	0.4±0.02 [.016±.0008]	0.2±0.02 [.008±.0008]	0.2±0.02 [.008±.0008]	0.095±0.025 [.0037±.0010]

SPECIFICATIONS

SDCL0402H-01 Series

Part Number	Inductance	Min. Quality Factor	L, Q Test Freq.	Typical Q @ Freq. (GHz)					Min. Self-resonant Frequency	Max. DC Resistance	Max. Rated Current
				0.5	0.8	1.8	2.0	2.4			
Units	nH	-	MHz	-					MHz	Ω	mA
Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
SDCL0402H0N2□T01	0.2	-	500	12	16	22	26	38	13000	0.4	320
SDCL0402H0N3□T01	0.3	-	500	12	15	22	25	36	13000	0.4	320
SDCL0402H0N4□T01	0.4	8	500	11	14	21	22	24	13000	0.4	320
SDCL0402H0N5□T01	0.5	8	500	10	13	21	23	25	13000	0.4	320
SDCL0402H0N6□T01	0.6	8	500	12	14	20	23	25	13000	0.4	320

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				0.5	0.8	1.8	2.0	2.4			
Units	nH	-	MHz	-					MHz	Ω	mA
Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
SDCL0402H0N7□T01	0.7	8	500	11	13	21	22	24	13000	0.4	320
SDCL0402H0N8□T01	0.8	8	500	10	12	20	21	23	13000	0.4	320
SDCL0402H0N9□T01	0.9	8	500	11	13	20	22	24	13000	0.4	320
SDCL0402H1N0□T01	1.0	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N1□T01	1.1	8	500	11	13	19	22	24	11500	0.4	220
SDCL0402H1N2□T01	1.2	8	500	10	12	20	21	23	11500	0.4	220
SDCL0402H1N3□T01	1.3	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N4□T01	1.4	8	500	11	13	20	21	23	11500	0.4	220
SDCL0402H1N5□T01	1.5	8	500	10	13	19	21	24	11500	0.4	220
SDCL0402H1N6□T01	1.6	8	500	10	12	19	21	23	11500	0.4	220
SDCL0402H1N7□T01	1.7	8	500	11	13	20	21	24	9500	0.5	200
SDCL0402H1N8□T01	1.8	8	500	10	12	19	21	23	9000	0.5	200
SDCL0402H1N9□T01	1.9	8	500	10	12	20	21	23	9000	0.5	200
SDCL0402H2N0□T01	2.0	8	500	11	12	19	21	23	9000	0.5	200
SDCL0402H2N1□T01	2.1	8	500	10	12	19	22	24	9000	0.5	200
SDCL0402H2N2□T01	2.2	8	500	9.5	11	18	20	22	7500	0.55	200
SDCL0402H2N3□T01	2.3	8	500	10	12	19	21	23	7500	0.55	200
SDCL0402H2N4□T01	2.4	8	500	10	12	19	21	23	7500	0.55	200
SDCL0402H2N5□T01	2.5	8	500	9.5	11	18	20	22	7500	0.6	200
SDCL0402H2N6□T01	2.6	8	500	11	12	19	21	23	7500	0.6	200
SDCL0402H2N7□T01	2.7	8	500	10	12	19	22	24	7500	0.6	200
SDCL0402H2N8□T01	2.8	8	500	10	12	19	21	23	7500	0.8	200
SDCL0402H2N9□T01	2.9	8	500	10	12	19	21	23	7500	0.8	200
SDCL0402H3N0□T01	3.0	8	500	10	12	19	20	23	7500	0.9	200
SDCL0402H3N1□T01	3.1	8	500	10	13	19	20	22	7500	0.9	200
SDCL0402H3N2□T01	3.2	8	500	9	11	19	20	22	7500	0.9	180
SDCL0402H3N3□T01	3.3	8	500	10	13	19	20	23	7500	0.9	180
SDCL0402H3N4□T01	3.4	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N5□T01	3.5	8	500	10	13	19	21	24	7500	1.0	180
SDCL0402H3N6□T01	3.6	8	500	11	12	19	21	23	7500	1.0	180
SDCL0402H3N7□T01	3.7	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N8□T01	3.8	8	500	10	12	19	21	23	7500	1.0	180
SDCL0402H3N9□T01	3.9	8	500	9	11	19	20	22	7500	1.0	180
SDCL0402H4N0□T01	4.0	8	500	10	12	19	21	23	7500	1.1	180
SDCL0402H4N1□T01	4.1	8	500	11	12	19	21	24	7500	1.1	180
SDCL0402H4N2□T01	4.2	8	500	10	12	18	20	22	7500	1.1	180
SDCL0402H4N3□T01	4.3	8	500	10	13	19	21	24	7500	1.1	180
SDCL0402H4N7□T01	4.7	8	500	9	11	19	20	22	6500	1.2	160
SDCL0402H5N1□T01	5.1	8	500	10	12	18	19	22	6500	1.3	160
SDCL0402H5N6□T01	5.6	8	500	10	12	17	22	24	6000	1.5	140
SDCL0402H6N2□T01	6.2	8	500	10	11	18	20	23	5500	1.6	140
SDCL0402H6N8□T01	6.8	8	500	10	11	17	20	23	5500	1.8	140
SDCL0402H7N5□T01	7.5	8	500	10	13	17	22	24	4500	1.8	140
SDCL0402H8N2□T01	8.2	8	500	10	12	18	20	22	4500	2.0	140
SDCL0402H9N1□T01	9.1	8	500	10	13	17	21	23	4000	2.0	140
SDCL0402H10N□T01	10	8	500	9	12	18	20	21	4000	2.2	140
SDCL0402H11N□T01	11	8	500	9	12	18	19	20	4000	2.4	140
SDCL0402H12N□T01	12	8	500	9	12	17	18	18	4000	2.4	140
SDCL0402H13N□T01	13	7	500	8	12	17	18	18	3500	3.0	140

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				0.5	0.8	1.8	2.0	2.4			
Units	nH	-	MHz	-					MHz	Ω	mA
Symbol	L	Q	Freq.	Q					S.R.F	DCR	I _r
SDCL0402H15N□T01	15	7	500	8	12	16	15	14	3000	3.0	140
SDCL0402H16N□T01	16	7	500	8	11	13	12	11	2500	3.2	140
SDCL0402H18N□T01	18	7	500	7.5	10	12	10	9	2500	3.2	140
SDCL0402H20N□T01	20	6	500	7	9	11	9	7	2500	4.5	120
SDCL0402H22N□T01	22	6	500	7	10	10	9	7	2300	5	120
SDCL0402H24N□T01	24	6	500	8	11	10	9	6	2000	5.5	120
SDCL0402H27N□T01	27	6	500	8	10	8	7	-	2000	5.5	120
SDCL0402H30N□T01	30	6	500	7	9	7	-	-	1800	6.5	90
SDCL0402H33N□T01	33	6	300	8	9	7	-	-	1800	6.5	90

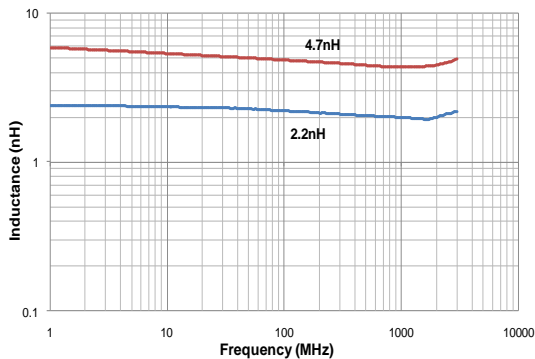
※□: Please specify the inductance tolerance. For L≤4.2nH, choose B=±0.1nH, C=±0.2nH or S=±0.3nH; For L≥4.3nH, choose H=±3%, J=±5%.

※: Please refer to "Measurement Notice For RF Inductors".

TYPICAL ELECTRICAL CHARACTERISTICS

SDCL0402H-01 Series

Inductance vs. Frequency Characteristics



Q vs. Frequency Characteristics

