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Customer	
Product Name	Thin Film RF Inductor
Sunlord Part Number	SDCL0402Q-P01 Series
Customer Part Number	

[New Released, Revised]

SPEC No.: SDCL0220220000

[This SPEC is total 12 pages including specifications and appendix.] [RoHS Compliant Parts]

Approved By	Checked By	Issued By

Shenzhen Sunlord Electronics Co., Ltd.

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Approved By Verified By	Re-checked By	Checked By
Comments:		

[Version change history]

Rev.	Effective Date	Changed Contents	Change reasons	Approved By
01	/	New release	/	Xiangdong Zeng

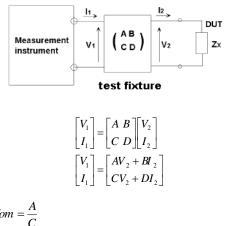
Caution

All products listed in this specification are developed, designed and intended for use in general electronics equipment. The products are not designed or warranted to meet the requirements of the applications listed below, whose performance and/or quality require especially Super reliability, or whose failure, malfunction or trouble might directly cause damage to society, person, or property. Please understand that we are not responsible for any damage or liability caused by use of the products in any of the applications below. Please contact us for more details if you intend to use our products in the following applications.

- 1. Aircraft equipment
- 2. Aerospace equipment
- 3. Undersea equipment
- 4. nuclear control equipment
- 5. military equipment
- 6. Power plant equipment
- 7. Medical equipment
- 8. Transportation equipment (automobiles, trains, ships, etc.)
- 9. Traffic signal equipment
- 10. Disaster prevention / crime prevention equipment
- Data-processing equipment
 Applications of similar complexity or with reliability requirements comparable to the applications listed in the above

Measuring Method of Inductance

a. Residual elements and stray elements of test fixture can be described by F-parameter as shown in the following:



Measured open impedance: $Zom = \frac{A}{C}$

Measured short impedance: $Z_{SM} = \frac{B}{D} \approx -Z_{SC}$ (when uses short chip to short)

Measured short ship impedance: Zsc

Measured value: $Zxm=V_1/I_1$

Impedance of DUT: Zx=V₂/I₂

b. The relation between Zx and Zom, Zsm, Zxm is shown in the following:

$$Zx = \frac{V_2}{I_2} = \frac{D}{A} * \frac{\frac{V_1}{I_1} - \frac{B}{D}}{1 - \frac{V_1}{I_1} * \frac{C}{A}} = \frac{D}{A} * \frac{Zxm - \frac{B}{D}}{1 - Zxm * \frac{C}{A}} = \frac{D}{A} * \frac{Zxm - Zsm}{1 - Zxm / Zom}$$

c. Lx should be calculated with the following equation:

$$Lx = \frac{\mathrm{Im}(Zx)}{2\pi f} = \frac{\mathrm{Im}(Zxm + Zsc)}{2\pi f} = \frac{\mathrm{Im}(Zxm)}{2\pi f} + \frac{\mathrm{Im}(Zsc)}{2\pi f} = Lxm + Lsc$$

Lxm: Measured chip inductor inductance Lsc: Measured short chip inductance

Lx: Nominal Inductance of chip inductor

Compensation Value (Lsc) of Short Chip

Series	Compensation Value
SDCL0402Q-P01	0.19nH

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1. Scope

This specification applies to SDCL0402Q-P01 series of thin film radio frequency inductor.

Product Description and Identification (Part Number) 2.

- Description 1)
 - SDCL0402Q-P01 series of thin film radio frequency inductor.
- 2) Product Identification (Part Number)

1	Д Туре			2	External Dimens	sions (L X W) (mm)
SDCL	SDCL Super Q Ceramic Chip Inductor			C	402 [01005]	0.4 X 0.2
③ Ap	③ Applications and Characteristics Code				Nominal Ir	nductance
	Q Chip Thickness=0.23mm				Example	Example
5	Inductance Tolerance				3N9	3N9
B、	C, S	±0.1、±0.2、±0.3nH			10N	10N
G.	G、H、J ±2%、±3%、±5%					
6		Packing	Г	$\overline{\mathcal{O}}$	Serial	Cada

	(4) Nominal Inductance					
	Example	Example				
7	3N9	3N9				
_	10N	10N				

)	Packing		⑦ Serial	Code
Р	Plastic Tape Carrier Package		01	Internal code

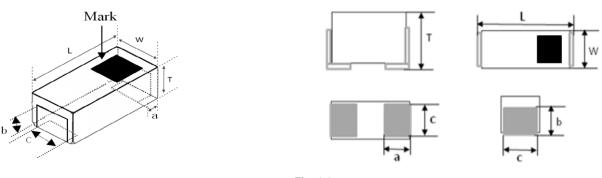
Electrical Characteristics 3.

Please refer to Appendix A (Page10-12).

- Operating and storage temperature range (individual chip without packing): -55 $^{\circ}$ C ~ +125 $^{\circ}$ C, 1)
- Storage temperature range (packaging conditions): -10 $^\circ\!C$ ~+40 $^\circ\!C$ and RH 70% (Max.) 2)

Shape and Dimensions 4.

- Dimensions and recommended PCB pattern for reflow soldering: See Fig.4-1, Fig.4-2 and Table 4-1. 1)
- 2) Structure: See Fig. 4-3 and Fig. 4-4.





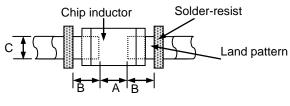


Fig. 4-2

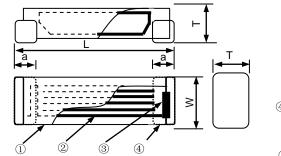
[Tab	le 4-1]							Unit:	mm [inch]
Туре	L	W	Т	а	b	С	А	В	С
0402	0.4±0.02	0.2±0.02	0.23±0.02	0.11±0.03	0.11±0.03	0.17±0.03	0.15~0.19	0.18~0.22	0.18~0.22
[01005]	[.016±.0008]	[.008±.0008]	[.009±.0008]	[.005±.0010]	[.005±.0010]	[.006±.0010]	0.15~0.19	0.10~0.22	0.10~0.22

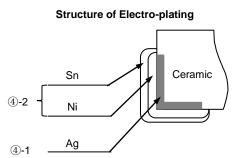
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Specifications for Thin Film RF Inductor

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Ceramic for SDCL Series Internal electrode (Ag)

- ③ Pull out electrode(Ag)
- 4-1 Terminal electrode: Inside (Ag)
- ④-2 Outside (Electro-plating Ni-Sn)

[Fig 4-3]

[Fig 4-4]

3) Material Information: See Table 4-2

	Tat	ole 4-2
Code	Part Name	Material Name
1	Ceramic Body	Ceramic Powder
2	Inner Coils	Silver Paste
3	Pull-out Electrode (Ag)	Silver Paste
④-1	Terminal Electrode: Inside Ag	Silver Paste
④-2	Electro-Plating: Ni/Sn plating	Plating Chemicals

4) Soldering Notice: The surface with the mark should be on the two beside when soldering

5. Test and Measurement Procedures

5.1 Test Conditions

- 5.1.1 Unless otherwise specified, the standard atmospheric conditions for measurement/test as:
 - a. Ambient Temperature: $20\pm15^{\circ}C$
 - b. Relative Humidity: 65±20%
 - c. Air Pressure: 86 KPa to 106 KPa
- 5.1.2 If any doubt on the results, measurements/tests should be made within the following limits:
 - a. Ambient Temperature: 20±2°C
 - b. Relative Humidity: 65±5%
 - c. Air Pressure: 86KPa to 106 KPa

5.2 Visual Examination

a. Inspection Equipment: 60 X magnifier

5.3 Electrical Test

- 5.3.1 DC Resistance (DCR)
 - a. Refer to Appendix A.
 - b. Test equipment (Analyzer): Super Accuracy Milliohmmeter-HP4338B or equivalent.

5.3.2 Inductance (L)

- a. Refer to Appendix A.
- b. Test equipment: Super Accuracy RF Impedance /Material Analyzer-E4991A+16198A or equivalent.
- c. Test signal: -20dBm or 50mV
- d. Test frequency refers to Appendix A.
- e. Short bar residual inductance=0.19nH
- 5.3.3 Q Factor (Q)
 - a. Refer to Appendix A.
 - b. Test equipment: Super Accuracy RF Impedance /Material Analyzer-E4991A+16198A or equivalent.
 - c. Test signal: -20dBm or 50mV
 - d. Test frequency refers to Appendix A.
- 5.3.4 Self-Resonant Frequency (SRF)
 - a. Refer to Appendix A.
 - b. Test equipment: Agilent 8719ES or equivalent.
 - c. Test signal: -20 dBm or 50 mV
- 5.3.5 Rated Current
 - a. Refer to Appendix A.
 - b. Test equipment (see Fig. 5.3.5-1): Electric Power, Electric current meter, Thermometer.
 - c. Measurement method (see Fig. 5.3.5-1):
 - 1. Set test current to be 0 mA.
 - 2. Measure initial temperature of chip surface.
 - 3. Gradually increase voltage and measure chip temperature for corresponding current.
 - d. Definition of Rated Current(Ir): Ir is direct electric current as chip surface temperature rose just 20°C against chip initial surface temperature(Ta) (see Fig. 5.3.5-2).

5.4 Reliability Test



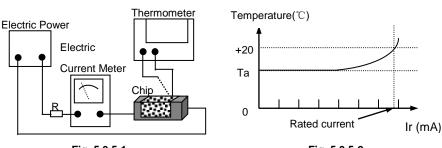


Fig. 5.3.5-1

Fig. 5.3.5-2

Items Test Methods and Remarks Requirements No removal or split of the termination or other Solder the inductor to the testing jig (glass epoxy board shown (1)defects shall occur. in Fig. 5.4.1-1) using leadfree solder. Then apply a force in the direction of the arrow. Chip 2 1N force for SDCL0402Q-P01 series. 5.4.1 F 3 Keep time: 10±1s Terminal Speed: 1.0mm/s. (4)Strength Mounting Pad Glass Epoxy Board Fig.5.4.1-1 No visible mechanical damage (1) Solder the inductor to the test jig (glass epoxy board shown in Fig. 5.4.2-1) Using a leadfree solder. Then apply a force in the Unit: mm [inch] direction shown Fig. 5.4.2-2. Туре а b С 2 Flexure: 2mm. 0402[01005] 0.18 0.8 0.2 3 Pressurizing Speed: 0.5mm/sec. (4) Keep time: 30 sec. 5.4.2 Resistance to Φ4.5 Flexure lexure 45[1.772 45[1 100 Fig. 5.4.2-2 Fig. 5.4.2-1 ① No visible mechanical damage. (1)Solder the inductor to the testing jig (glass epoxy board 2 Inductance change: Within ±10%. shown in Fig. 5.4.3-1) using leadfree solder. ③ Q factor change: Within ±20%. 2 The inductor shall be subjected to a simple harmonic motion having total amplitude of 1.5mm, the frequency being varied Solder mask Cu pad uniformly between the approximate limits of 10 and 55 Hz. 5.4.3 3 The frequency range from 10 to 55 Hz and return to 10 Hz shall be traversed in approximately 1 minute. This motion shall be Vibration applied for a period of 2 hours in each 3mutually perpendicular 1 1 11 directions (total of 6 hours). Glass Epoxy Board Fig. 5.4.3-1 ① No visible mechanical damage. Drop chip inductor 10 times on a concrete floor from a height of 100 5.4.4 (2)Inductance change: Within ±10%. cm. Dropping Q factor change: Within ±20%. (3) 5.4.5 Inductance change should be within ±10% of initial Temperature range: SDCL0402Q-P01: -55℃ to +125℃, Temperature value measuring at 20°C. Reference temperature: +20°C (1) No visible mechanical damage. (1) Solder temperture:240±2°C 5.4.6 2 Wetting shall exceed 95% coverage. 2 Duration: 3 sec. 3 Solderability Solder: Sn/3.0Ag/0.5Cu. (4) Flux: 25% Resin and 75% ethanol in weight. 1 No visible mechanical damage. 1 Solder temperature: 260±3°C 2 Wetting shall exceed 75% coverage. 2 Duration: 5 sec. 5.4.7 (3) Inductance change: Within ±10%. 3 Solder: Sn/3.0Ag/0.5Cu. Resistance to (4)Q factor change: Within ±20%. (4)Flux: 25% Resin and 75% ethanol in weight. Soldering Heat (5)The chip shall be stabilized at normal condition for 1~2 hours before measuring.

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5.4.8 Thermal Shock	 No mechanical damage. Inductance change: Within ±10%. Q factor change: Within ±20%. 125°C 30 min Ambient Temperature -55°C 30 min 30 min 20sec.(max) 	 Temperature, Time: (See Fig. 5.4.8-1) SDCL0402Q-01: -55°C for 30±3 min→125°C for 30±3min, Transforming interval: Max. 20 sec. Tested cycle: 100 cycles. The chip shall be stabilized at normal condition for 1~2 hours before measuring.
	Fig. 5.4.8-1	
5.4.9 Resistance to	No mechanical damage. Inductores change: Within + 10%	 Temperature: -55±2°C, Duration: 1000⁺²⁴ hours.
Low	 Inductance change: Within ±10%. Q factor change: Within ±20%. 	 3 The chip shall be stabilized at normal condition for 1~2 hours
Temperature		before measuring.
5.4.10	① No mechanical damage.	1) Temperature: 125±2°C,
Resistance to	 Inductance change: Within ±10%. 	2 Duration: 1000 ⁺²⁴ hours.
Super	③ Q factor change: Within ±20%.	③ The chip shall be stabilized at normal condition for 1~2 hours
Temperature	-	before measuring.
5.4.11	① No visible mechanical damage.	① Temperature: 60±2℃
Damp Heat	2 Inductance change: Within ±10%.	② Humidity: 90% to 95% RH.
(Steady	③ Q factor change: Within ±20%.	③ Duration: 1000 ⁺²⁴ hours.
States)		④ The chip shall be stabilized at normal condition for 1~2 hours
Oldios)		before measuring.
	① No visible mechanical damage.	① Temperature: 60±2℃
5.4.12	② Inductance change: Within ±10%.	② Humidity: 90% to 95% RH.
Loading Under	③ Q factor change: Within ±20%.	③ Duration: 1000 ⁺²⁴ hours.
Damp Heat		④ Applied current: Rated current.
		5 The chip shall be stabilized at normal condition for 1~2 hours
		before measuring.
5.4.13	1 No visible mechanical damage.	1) Temperature: $125\pm 2^{\circ}C$,
Loading at	Inductance change: Within ±10%.	(2) Duration: 1000^{+24} hours.
Super	3 Q factor change: Within ±20%.	③ Applied current: Rated current.
Temperature		④ The chip shall be stabilized at normal condition for 1~2 hours
(Life Test)		before measuring.

6. Packaging and Storage

6.1 Packaging

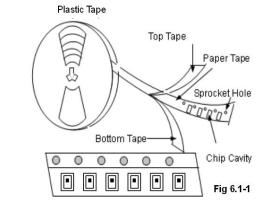
Tape Carrier Packaging:

Packaging code: P

- a. Tape carrier packaging are specified in attached figure Fig.6.1-1~3
- b. Tape carrier packaging quantity please see the following table:

Туре	0402[01005]
Thickness (mm)	0.2±0.05
Tape	Plastic Tape
Quantity	30K

(1) Taping Drawings (Unit: mm)



Remark: The sprocket holes are to the right as the tape is pulled toward the user.

(2) Taping Dimensions (Unit: mm)

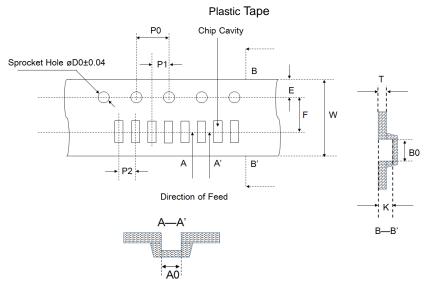
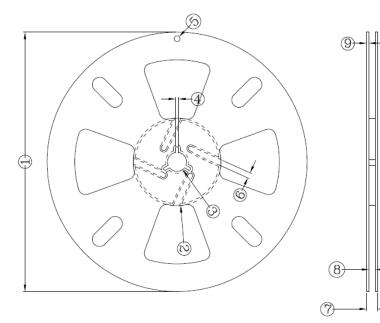


Fig. 6.1-2

Unit:mm

Table 6.1-1												
Туре	A0	B0	Т	W	к	P0	P1	P2	D0	F	E	
0402	0.24±0.02	0.44±0.02	0.2±0.05	4.0±0.05	0.27±0.02	2.0±0.04	1.0±0.03	1.0±0.03	0.80±0.04	1.8±0.03	0.9±0.05	

Reel Dimensions (Unit: mm) (2)



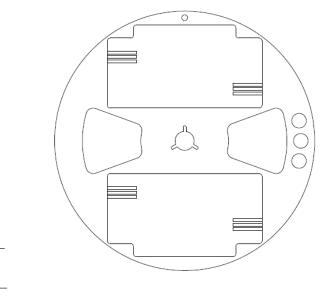


Fig. 6.1-3

Table 6.1-2	Unit	:mm						
1	2	3	4	5	6	0	8	9
178±1.0	60±1.0	13±0.3	2.0±0.5	4±0.2	4±0.5	7.5±1	4.5±0.5	1.5±0.3

6.2 Storage

- a. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to Super humidity. Package must be stored at 40°C or less and 70% RH or less.
- b. The solderability of the external electrode may be deteriorated if packages are stored where they are exposed to dust of harmful gas (e.g. HCl, sulfurous gas of H₂S).
- c. Packaging material may be deformed if package are stored where they are exposed to heat of direct sunlight.
- d.Solderability specified in Clause 5.4.6 shall be guaranteed for 12 months from the date of delivery on condition that they are stored at the environment specified in Clause 3. For those parts, which passed more than 12 months shall be checked solder-ability before use.

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7. Recommended Soldering Technologies

- 7.1 Reflow Profile
- \triangle Preheat condition: 150 ~200 °C/60~120sec.
- \triangle Allowed time above 217 °C: 60~90sec.
- △ Max temp: 260°C
- \triangle Max time at max temp: 10sec.
- △ Solder paste: Sn/3.0Ag/0.5Cu
- \triangle Allowed Reflow time: 2x max

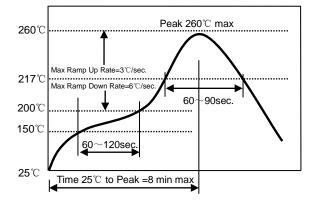
[Note: The reflow profile in the above table is only for qualification and is not meant to specify board assembly profiles. Actual board assembly profiles must be based on the customer's specific board design, solder paste and process, and should not exceed the parameters as the Reflow profile shows.]

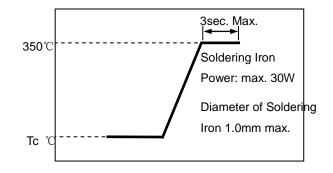
7.2 Iron Soldering Profile

- \bigtriangleup $\,$ Iron soldering power: Max. 30W
- \triangle Pre-heating: 150°C/60sec.
- \triangle Soldering Tip temperature: 350°C Max.
- \triangle Soldering time: 3sec. Max.
- △ Solder paste: Sn/3.0Ag/0.5Cu
- \triangle Max.1 times for iron soldering

[Note: Take care not to apply the tip of the soldering iron to the terminal electrodes.]

Specifications for Thin Film RF Inductor





Appendix A: Electrical Characteristics (SDCL0402Q-P01 Series of Inductors) SDCL0402Q-P01 Series of Inductor

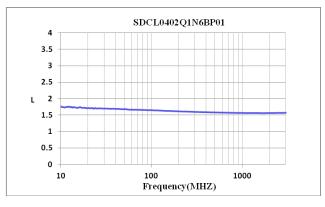
	Inductance	Min.	L, Q	Ту	Typical Q @ Freq			eq.	Min .Self-resonant	Max. DC	Max .Rated	
Part Number		Quality Factor	Test Freq .L/Q	(GHz) 0.5 0.8 1.8 2.0 2.4					Frequency	Resistance	Current	Thickness
Units	nH	-	MHz		. <u></u>	-	. <u></u>		MHz	Ω	mA	mm [inch]
Symbol	L	Q	Freq			Q			S.R.F	DCR	lr	Т
SDCL0402Q0N3 P01	0.3	14	500	/	/	/	/	/	17000	0.03	990	
SDCL0402Q0N4DP01	0.4	14	500	/	/	/	/	/	17000	0.04	990	
SDCL0402Q0N5 DP01	0.5	14	500	/	/	/	/	/	17000	0.04	990	
SDCL0402Q0N6□P01	0.6	14	500	20	25	36	38	45	16600	0.05	900	
SDCL0402Q0N7 DP01	0.7	14	500	20	25	36	38	45	16600	0.05	900	
SDCL0402Q0N8 P01	0.8	14	500	20	25	37	39	46	16600	0.07	900	
SDCL0402Q0N9 DP01	0.9	14	500	19	25	36	38	45	15500	0.1	600	
SDCL0402Q1N0□P01	1.0	14	500	19	25	36	38	45	15500	0.1	600	
SDCL0402Q1N1 DP01	1.1	14	500	19	25	36	38	45	15500	0.11	550	
SDCL0402Q1N2□P01	1.2	14	500	19	24	35	37	44	15500	0.11	550	
SDCL0402Q1N3 DP01	1.3	14	500	19	24	35	37	44	15500	0.11	550	
SDCL0402Q1N4□P01	1.4	14	500	19	25	36	38	45	15000	0.12	450	
SDCL0402Q1N5DP01	1.5	14	500	19	24	35	37	43	15000	0.12	450	
SDCL0402Q1N6□P01	1.6	14	500	19	23	35	36	43	15000	0.15	450	
SDCL0402Q1N7□P01	1.7	14	500	19	24	35	36	43	15000	0.15	450	
SDCL0402Q1N8□P01	1.8	14	500	19	24	35	37	44	13000	0.15	450	
SDCL0402Q1N9DP01	1.9	14	500	19	24	35	37	44	12000	0.16	450	
SDCL0402Q2N0□P01	2.0	14	500	19	25	35	38	45	11000	0.16	450	
SDCL0402Q2N1□P01	2.1	14	500	19	25	35	37	44	11000	0.16	450	
SDCL0402Q2N2 DP01	2.2	14	500	19	25	35	37	43	10500	0.18	400	0.23±0.02
SDCL0402Q2N3 DP01	2.3	14	500	19	24	34	36	43	10500	0.18	400	[.009±.0008]
SDCL0402Q2N4 P01	2.4	14	500	19	25	37	39	46	10500	0.2	400	
SDCL0402Q2N5 DP01	2.5	14	500	19	24	35	36	43	10000	0.2	400	
SDCL0402Q2N6□P01	2.6	14	500	19	24	35	36	43	10000	0.2	400	
SDCL0402Q2N7 P01	2.7	14	500	19	24	37	39	43	9500	0.23	350	
SDCL0402Q2N8□P01	2.8	14	500	19	24	37	40	46	9500	0.23	350	
SDCL0402Q2N9□P01	2.9	14	500	19	24	36	39	45	9500	0.23	350	
SDCL0402Q3N0□P01	3.0	14	500	19	25	36	38	45	9500	0.26	350	
SDCL0402Q3N1□P01	3.1	14	500	19	25	35	37	43	9000	0.26	350	
SDCL0402Q3N2□P01	3.2	14	500	19	24	35	37	44	9000	0.26	350	
SDCL0402Q3N3□P01	3.3	14	500	19	25	36	38	45	9000	0.26	350	
SDCL0402Q3N4□P01	3.4	14	500	19	24	35	38	44	9000	0.26	350	
SDCL0402Q3N5□P01	3.5	14	500	19	25	36	38	45	8700	0.28	350	
SDCL0402Q3N6□P01	3.6	14	500	19	24	35	37	44	8700	0.28	350	
SDCL0402Q3N7□P01	3.7	14	500	19	24	35	37	44	8700	0.28	350	
SDCL0402Q3N8□P01	3.8	14	500	19	24	34	36	42	8700	0.28	350	
SDCL0402Q3N9DP01	3.9	14	500	18	23	33	35	39	8700	0.3	350	
SDCL0402Q4N0□P01	4.0	14	500	18	23	33	35	40	8000	0.3	350	
SDCL0402Q4N1□P01	4.1	14	500	18	23	33	35	40	7500	0.3	350	
SDCL0402Q4N2□P01	4.2	14	500	18	23	34	36	41	7000	0.3	350	

Sunlord	Categor	denti	al		s	peci	fications for Thin Filn	Page 11 of 12				
Part Number	Inductance	Min. Quality Factor	L, Q Test Freq .L/Q		Typical Q @ Freq. (GHz) 0.5 0.8 1.8 2.0 2.4		Min .Self-resonant Frequency	Max. DC Resistance	Max .Rated Current	Thickness		
Units	nH	-	MHz		-			•	MHz	Ω	mA	mm [inch]
Symbol	L	Q	Freq	Q		S.R.F	DCR	lr	Т			
SDCL0402Q4N3 DP01	4.3	14	500	18	22	33	35	40	7000	0.3	350	
SDCL0402Q4N7 DP01	4.7	14	500	18	23	34	36	42	7000	0.4	300	
SDCL0402Q5N1□P01	5.1	14	500	17	22	32	34	37	6600	0.4	300	
SDCL0402Q5N6□P01	5.6	14	500	17	22	31	33	36	6100	0.4	300	
SDCL0402Q6N2 DP01	6.2	14	500	17	22	32	33	38	6000	0.45	300	
SDCL0402Q6N8□P01	6.8	14	500	17	21	30	32	35	5700	0.52	250	
SDCL0402Q7N5DP01	7.5	14	500	16	20	29	31	34	5500	0.68	230	
SDCL0402Q8N2 DP01	8.2	14	500	17	21	30	32	35	5300	0.68	230	
SDCL0402Q9N1 DP01	9.1	14	500	16	20	29	32	35	5000	0.8	170	0.23±0.02
SDCL0402Q10NDP01	10	14	500	16	20	29	31	34	4500	0.85	170	[.009±.0008]
SDCL0402Q11NDP01	11	14	500	16	21	28	30	31	4200	0.9	170	
SDCL0402Q12NDP01	12	14	500	16	20	27	28	29	4000	0.93	170	
SDCL0402Q13NDP01	13	12	500	15	18	25	26	27	3800	1.2	160	
SDCL0402Q15NDP01	15	12	500	15	18	24	25	25	3500	1.8	140	
SDCL0402Q16NDP01	16	12	500	15	18	24	25	25	3500	1.8	140	
SDCL0402Q18NDP01	18	9	500	11	15	18	20	19	3000	2.5	140	
SDCL0402Q20NDP01	20	9	500	11	15	18	20	19	2700	2.8	140	
SDCL0402Q22NDP01	22	9	500	11	14	17	20	18	2300	3.5	120	

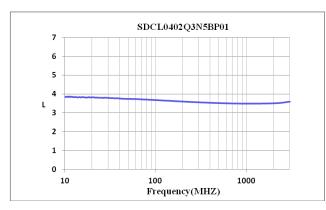
Note: \Box : Please specify the inductance tolerance. For L \leq 4.2nH, choose B=±0.1nH, C=±0.2nH or S=±0.3nH; For 4.2nH<L<5.6nH, choose, H=±3%, J=±5%. or S=±0.3nH; For L \geq 5.6nH, choose, H=±3%, J=±5%

Inductance-Frequency Characteristics(Typ.)

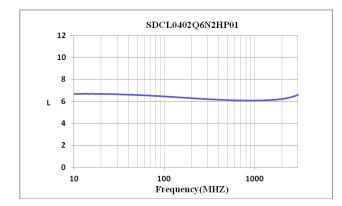
SDCL0402Q1N6BP01



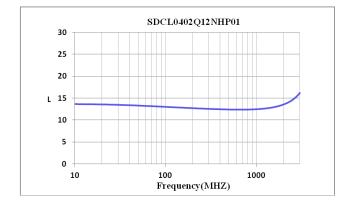
SDCL0402Q3N5BP01



SDCL0402Q6N2HP01



SDCL0402Q12NHP01



Q-Frequency Characteristics(Typ.)

