

Multilayer Chip Ceramic Inductor - SDCL0603Q-02-B 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

SDCL **0603** **Q** **10N** **J** **T** **02** **B01**
 ① ② ③ ④ ⑤ ⑥ ⑦ ⑧

①

| Type | |
|------|-----------------------|
| SDCL | Chip Ceramic Inductor |

②

| (L×W) (mm) | |
|--------------------------------|---------|
| External Dimensions (L×W) (mm) | |
| 0603 [0201] | 0.6×0.3 |

③

| Characteristics Code | |
|----------------------|--|
| Q | |

④

| Nominal Inductance | |
|--------------------|---------------|
| Example | Nominal Value |
| 3N9 | 3.9nH |
| 10N | 10nH |
| ※R=, N=nH | |

⑤

| Inductance Tolerance | |
|----------------------|--------|
| B | ±0.1nH |
| C | ±0.2nH |
| S | ±0.3nH |
| G | ±2% |
| H | ±3% |
| J | ±5% |

⑥

| Packing | |
|---------|-------------|
| T | Tape & Reel |

⑦

| Serial Code | |
|-------------|--|
| 02 | |

⑧

| Internal Code | |
|---------------|--|
| B01/B02/B03 | |

SHAPE AND DIMENSIONS



Unit: mm [inch]

| Type | L | W | T | a |
|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| SDCL0603Q-02-B [0201] | 0.6±0.03 [.024±.0012] | 0.3±0.03 [.012±.0012] | 0.3±0.03 [.012±.0012] | 0.12±0.05 [.005±.002] |

SPECIFICATIONS

SDCL0603Q-02B01 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 |
| SDCL0603Q0N6□T02B01 | 0.6 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 10000 | 0.06 | 600 |
| SDCL0603Q0N7□T02B01 | 0.7 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 10000 | 0.06 | 550 |
| SDCL0603Q0N8□T02B01 | 0.8 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 10000 | 0.07 | 550 |
| SDCL0603Q0N9□T02B01 | 0.9 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 10000 | 0.07 | 550 |
| SDCL0603Q1N0□T02B01 | 1.0 | 13 | 500 | 24 | 32 | 54 | 57 | 65 | 10000 | 0.08 | 520 |
| SDCL0603Q1N1□T02B01 | 1.1 | 13 | 500 | 19 | 26 | 45 | 47 | 55 | 10000 | 0.11 | 440 |
| SDCL0603Q1N2□T02B01 | 1.2 | 13 | 500 | 19 | 25 | 43 | 44 | 52 | 10000 | 0.12 | 420 |
| SDCL0603Q1N3□T02B01 | 1.3 | 13 | 500 | 19 | 25 | 40 | 42 | 47 | 10000 | 0.12 | 420 |
| SDCL0603Q1N4□T02B01 | 1.4 | 13 | 500 | 19 | 24 | 39 | 41 | 47 | 10000 | 0.11 | 440 |
| SDCL0603Q1N5□T02B01 | 1.5 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.12 | 420 |
| SDCL0603Q1N6□T02B01 | 1.6 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.13 | 410 |
| SDCL0603Q1N7□T02B01 | 1.7 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.15 | 380 |
| SDCL0603Q1N8□T02B01 | 1.8 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.15 | 380 |
| SDCL0603Q1N9□T02B01 | 1.9 | 13 | 500 | 18 | 24 | 38 | 40 | 45 | 10000 | 0.18 | 350 |
| SDCL0603Q2N0□T02B01 | 2.0 | 13 | 500 | 17 | 24 | 38 | 39 | 44 | 10000 | 0.23 | 300 |
| SDCL0603Q2N1□T02B01 | 2.1 | 13 | 500 | 17 | 24 | 37 | 39 | 44 | 10000 | 0.24 | 300 |
| SDCL0603Q2N2□T02B01 | 2.2 | 13 | 500 | 17 | 24 | 38 | 40 | 43 | 10000 | 0.25 | 290 |
| SDCL0603Q2N3□T02B01 | 2.3 | 13 | 500 | 17 | 24 | 37 | 39 | 43 | 10000 | 0.20 | 330 |
| SDCL0603Q2N4□T02B01 | 2.4 | 13 | 500 | 17 | 23 | 36 | 38 | 42 | 10000 | 0.22 | 310 |
| SDCL0603Q2N5□T02B01 | 2.5 | 13 | 500 | 17 | 23 | 35 | 36 | 40 | 9600 | 0.20 | 330 |
| SDCL0603Q2N6□T02B01 | 2.6 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9400 | 0.20 | 330 |
| SDCL0603Q2N7□T02B01 | 2.7 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9200 | 0.22 | 310 |
| SDCL0603Q2N8□T02B01 | 2.8 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8900 | 0.24 | 300 |
| SDCL0603Q2N9□T02B01 | 2.9 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8800 | 0.26 | 280 |
| SDCL0603Q3N0□T02B01 | 3.0 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8600 | 0.26 | 280 |
| SDCL0603Q3N1□T02B01 | 3.1 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8500 | 0.28 | 270 |
| SDCL0603Q3N2□T02B01 | 3.2 | 13 | 500 | 17 | 22 | 33 | 35 | 39 | 8200 | 0.28 | 270 |
| SDCL0603Q3N3□T02B01 | 3.3 | 13 | 500 | 18 | 23 | 34 | 36 | 40 | 8100 | 0.30 | 270 |
| SDCL0603Q3N4□T02B01 | 3.4 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 8000 | 0.30 | 270 |
| SDCL0603Q3N5□T02B01 | 3.5 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 7900 | 0.34 | 250 |
| SDCL0603Q3N6□T02B01 | 3.6 | 13 | 500 | 16 | 23 | 33 | 35 | 39 | 7700 | 0.38 | 240 |
| SDCL0603Q3N7□T02B01 | 3.7 | 13 | 500 | 16 | 23 | 33 | 35 | 38 | 7600 | 0.40 | 230 |
| SDCL0603Q3N8□T02B01 | 3.8 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7500 | 0.42 | 230 |
| SDCL0603Q3N9□T02B01 | 3.9 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.42 | 230 |
| SDCL0603Q4N3□T02B01 | 4.3 | 13 | 500 | 16 | 21 | 32 | 34 | 37 | 6800 | 0.44 | 220 |
| SDCL0603Q4N7□T02B01 | 4.7 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 6200 | 0.45 | 220 |
| SDCL0603Q5N1□T02B01 | 5.1 | 13 | 500 | 17 | 22 | 34 | 36 | 38 | 5900 | 0.46 | 210 |
| SDCL0603Q5N6□T02B01 | 5.6 | 13 | 500 | 16 | 21 | 33 | 34 | 37 | 5500 | 0.46 | 210 |
| SDCL0603Q6N2□T02B01 | 6.2 | 13 | 500 | 18 | 23 | 34 | 35 | 37 | 5100 | 0.48 | 210 |
| SDCL0603Q6N8□T02B01 | 6.8 | 13 | 500 | 17 | 22 | 32 | 33 | 35 | 5500 | 0.50 | 200 |
| SDCL0603Q7N5□T02B01 | 7.5 | 13 | 500 | 16 | 21 | 31 | 33 | 34 | 4700 | 0.50 | 200 |
| SDCL0603Q8N2□T02B01 | 8.2 | 13 | 500 | 16 | 21 | 31 | 32 | 34 | 4300 | 0.56 | 190 |
| SDCL0603Q9N1□T02B01 | 9.1 | 13 | 500 | 16 | 20 | 30 | 31 | 32 | 4100 | 0.72 | 170 |
| SDCL0603Q10N□T02B01 | 10 | 13 | 500 | 16 | 20 | 28 | 29 | 31 | 3800 | 0.80 | 160 |
| SDCL0603Q12N□T02B01 | 12 | 13 | 500 | 16 | 20 | 27 | 28 | 28 | 3400 | 0.80 | 160 |
| SDCL0603Q15N□T02B01 | 15 | 13 | 500 | 15 | 19 | 24 | 24 | 23 | 2600 | 0.85 | 160 |



Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/15

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SPECIFICATIONS

SDCL0603Q-02B01 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 | Ir |
| SDCL0603Q18N□T02B01 | 18 | 13 | 500 | 15 | 19 | 23 | 24 | 22 | 2300 | 1.00 | 140 |
| SDCL0603Q22N□T02B01 | 22 | 13 | 500 | 15 | 19 | 22 | 23 | 20 | 1900 | 1.20 | 130 |
| SDCL0603Q27N□T02B01 | 27 | 13 | 500 | 15 | 19 | 15 | 13 | 8 | 1800 | 1.60 | 120 |
| SDCL0603Q33N□T02B01 | 33 | 11 | 300 | 14 | 15 | 8 | 5 | - | 1800 | 2.20 | 110 |
| SDCL0603Q39N□T02B01 | 39 | 11 | 300 | 14 | 15 | 6 | - | - | 1600 | 2.30 | 100 |
| SDCL0603Q47N□T02B01 | 47 | 11 | 300 | 14 | 15 | - | - | - | 1500 | 2.60 | 100 |
| SDCL0603Q56N□T02B01 | 56 | 11 | 300 | 13 | 13 | - | - | - | 1400 | 2.80 | 80 |
| SDCL0603Q68N□T02B01 | 68 | 11 | 300 | 13 | 11 | - | - | - | 1200 | 3.20 | 80 |
| SDCL0603Q82N□T02B01 | 82 | 10 | 300 | 12 | 10 | - | - | - | 1100 | 3.80 | 70 |
| SDCL0603QR10□T02B01 | 100 | 10 | 300 | 12 | 10 | - | - | - | 1000 | 4.00 | 60 |
| SDCL0603QR12□T02B01 | 120 | 9 | 300 | 12 | 8 | - | - | - | 1000 | 5.00 | 50 |

SDCL0603Q-02B02 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 | Ir |
| SDCL0603Q0N1□T02B02 | 0.1 | 13 | 500 | 20 | 39 | 77 | 100 | 119 | 10000 | 0.07 | 900 |
| SDCL0603Q0N2□T02B02 | 0.2 | 13 | 500 | 29 | 41 | 77 | 85 | 94 | 10000 | 0.08 | 900 |
| SDCL0603Q0N3□T02B02 | 0.3 | 13 | 500 | 19 | 25 | 41 | 45 | 50 | 10000 | 0.08 | 900 |
| SDCL0603Q0N4□T02B02 | 0.4 | 13 | 500 | 14 | 18 | 30 | 31 | 35 | 10000 | 0.08 | 900 |
| SDCL0603Q0N5□T02B02 | 0.5 | 13 | 500 | 15 | 20 | 31 | 34 | 36 | 10000 | 0.08 | 900 |
| SDCL0603Q0N6□T02B02 | 0.6 | 13 | 500 | 24 | 32 | 54 | 57 | 65 | 10000 | 0.08 | 850 |
| SDCL0603Q0N7□T02B02 | 0.7 | 13 | 500 | 19 | 26 | 45 | 47 | 55 | 10000 | 0.11 | 750 |
| SDCL0603Q0N8□T02B02 | 0.8 | 13 | 500 | 19 | 25 | 43 | 44 | 52 | 10000 | 0.12 | 700 |
| SDCL0603Q0N9□T02B02 | 0.9 | 13 | 500 | 19 | 25 | 40 | 42 | 47 | 10000 | 0.12 | 700 |
| SDCL0603Q1N0□T02B02 | 1.0 | 13 | 500 | 19 | 24 | 39 | 41 | 47 | 10000 | 0.11 | 600 |
| SDCL0603Q1N1□T02B02 | 1.1 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.12 | 600 |
| SDCL0603Q1N2□T02B02 | 1.2 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.13 | 600 |
| SDCL0603Q1N3□T02B02 | 1.3 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.15 | 600 |
| SDCL0603Q1N4□T02B02 | 1.4 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 10000 | 0.15 | 600 |
| SDCL0603Q1N5□T02B02 | 1.5 | 13 | 500 | 18 | 24 | 38 | 40 | 45 | 10000 | 0.15 | 600 |
| SDCL0603Q1N6□T02B02 | 1.6 | 13 | 500 | 17 | 24 | 38 | 39 | 44 | 10000 | 0.15 | 600 |
| SDCL0603Q1N7□T02B02 | 1.7 | 13 | 500 | 17 | 24 | 37 | 39 | 44 | 10000 | 0.15 | 500 |
| SDCL0603Q1N8□T02B02 | 1.8 | 13 | 500 | 17 | 24 | 38 | 40 | 43 | 10000 | 0.18 | 500 |
| SDCL0603Q1N9□T02B02 | 1.9 | 13 | 500 | 17 | 24 | 37 | 39 | 43 | 10000 | 0.20 | 450 |
| SDCL0603Q2N0□T02B02 | 2.0 | 13 | 500 | 17 | 23 | 36 | 38 | 42 | 10000 | 0.20 | 450 |
| SDCL0603Q2N1□T02B02 | 2.1 | 13 | 500 | 17 | 23 | 35 | 36 | 40 | 9600 | 0.20 | 450 |
| SDCL0603Q2N2□T02B02 | 2.2 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9400 | 0.20 | 450 |
| SDCL0603Q2N3□T02B02 | 2.3 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9200 | 0.22 | 450 |
| SDCL0603Q2N4□T02B02 | 2.4 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8900 | 0.22 | 450 |
| SDCL0603Q2N5□T02B02 | 2.5 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8800 | 0.25 | 450 |
| SDCL0603Q2N6□T02B02 | 2.6 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8600 | 0.25 | 450 |
| SDCL0603Q2N7□T02B02 | 2.7 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8500 | 0.25 | 450 |
| SDCL0603Q2N8□T02B02 | 2.8 | 13 | 500 | 17 | 22 | 33 | 35 | 39 | 8200 | 0.25 | 450 |
| SDCL0603Q2N9□T02B02 | 2.9 | 13 | 500 | 18 | 23 | 34 | 36 | 40 | 8100 | 0.25 | 450 |
| SDCL0603Q3N0□T02B02 | 3.0 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 8000 | 0.25 | 450 |



Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/15

SPECIFICATIONS

SDCL0603Q-02B02 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 | Ir |
| SDCL0603Q3N1□T02B02 | 3.1 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 7900 | 0.32 | 400 |
| SDCL0603Q3N2□T02B02 | 3.2 | 13 | 500 | 16 | 23 | 33 | 35 | 39 | 7700 | 0.32 | 400 |
| SDCL0603Q3N3□T02B02 | 3.3 | 13 | 500 | 16 | 23 | 33 | 35 | 38 | 7600 | 0.32 | 400 |
| SDCL0603Q3N4□T02B02 | 3.4 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7500 | 0.34 | 350 |
| SDCL0603Q3N5□T02B02 | 3.5 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.34 | 350 |
| SDCL0603Q3N6□T02B02 | 3.6 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.34 | 350 |
| SDCL0603Q3N7□T02B02 | 3.7 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.34 | 350 |
| SDCL0603Q3N8□T02B02 | 3.8 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.34 | 350 |
| SDCL0603Q3N9□T02B02 | 3.9 | 13 | 500 | 16 | 21 | 32 | 34 | 37 | 6800 | 0.34 | 350 |
| SDCL0603Q4N3□T02B02 | 4.3 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 6400 | 0.45 | 300 |
| SDCL0603Q4N7□T02B02 | 4.7 | 13 | 500 | 17 | 22 | 34 | 36 | 38 | 6400 | 0.46 | 250 |
| SDCL0603Q5N1□T02B02 | 5.1 | 13 | 500 | 16 | 21 | 33 | 34 | 37 | 6200 | 0.46 | 250 |
| SDCL0603Q5N6□T02B02 | 5.6 | 13 | 500 | 18 | 23 | 34 | 35 | 37 | 6000 | 0.48 | 250 |
| SDCL0603Q6N2□T02B02 | 6.2 | 13 | 500 | 17 | 22 | 32 | 33 | 35 | 6000 | 0.50 | 200 |
| SDCL0603Q6N8□T02B02 | 6.8 | 13 | 500 | 16 | 21 | 31 | 33 | 34 | 5400 | 0.50 | 200 |
| SDCL0603Q7N5□T02B02 | 7.5 | 13 | 500 | 16 | 21 | 31 | 32 | 34 | 4800 | 0.56 | 200 |
| SDCL0603Q8N2□T02B02 | 8.2 | 13 | 500 | 16 | 20 | 30 | 31 | 32 | 4800 | 0.72 | 200 |
| SDCL0603Q9N1□T02B02 | 9.1 | 13 | 500 | 16 | 20 | 28 | 29 | 31 | 4500 | 0.80 | 200 |
| SDCL0603Q10N□T02B02 | 10 | 11 | 500 | 16 | 19 | 24 | 24 | 22 | 4500 | 1.20 | 190 |
| SDCL0603Q12N□T02B02 | 12 | 11 | 500 | 16 | 18 | 22 | 22 | 17 | 3700 | 1.42 | 180 |
| SDCL0603Q15N□T02B02 | 15 | 11 | 500 | 15 | 17 | 20 | 18 | 13 | 3100 | 1.58 | 170 |
| SDCL0603Q18N□T02B02 | 18 | 11 | 500 | 15 | 18 | 15 | 13 | 8 | 2800 | 1.71 | 160 |
| SDCL0603Q22N□T02B02 | 22 | 11 | 500 | 15 | 17 | 14 | 12 | 7 | 2600 | 1.92 | 140 |
| SDCL0603Q24N□T02B02 | 24 | 13 | 500 | 15 | 19 | 15 | 13 | 8 | 1800 | 2 | 120 |
| SDCL0603Q27N□T02B02 | 27 | 13 | 500 | 15 | 19 | 15 | 13 | 8 | 1800 | 2.1 | 120 |
| SDCL0603Q30N□T02B02 | 30 | 11 | 300 | 14 | 15 | 8 | 5 | - | 1800 | 2.2 | 110 |
| SDCL0603Q33N□T02B02 | 33 | 11 | 300 | 14 | 15 | 8 | 5 | - | 1800 | 2.2 | 110 |
| SDCL0603Q36N□T02B02 | 36 | 11 | 300 | 14 | 15 | 6 | - | - | 1600 | 2.3 | 100 |
| SDCL0603Q39N□T02B02 | 39 | 11 | 300 | 14 | 15 | 6 | - | - | 1500 | 2.3 | 100 |
| SDCL0603Q43N□T02B02 | 43 | 11 | 300 | 14 | 15 | - | - | - | 1500 | 2.6 | 100 |
| SDCL0603Q47N□T02B02 | 47 | 11 | 300 | 13 | 15 | - | - | - | 1500 | 2.6 | 100 |
| SDCL0603Q51N□T02B02 | 51 | 11 | 300 | 13 | 13 | - | - | - | 1400 | 2.8 | 80 |
| SDCL0603Q56N□T02B02 | 56 | 11 | 300 | 13 | 13 | - | - | - | 1400 | 2.8 | 80 |
| SDCL0603Q68N□T02B02 | 68 | 11 | 300 | 13 | 11 | - | - | - | 1200 | 3.2 | 80 |
| SDCL0603Q82N□T02B02 | 82 | 10 | 300 | 12 | 10 | - | - | - | 1100 | 3.8 | 80 |
| SDCL0603QR10□T02B02 | 100 | 10 | 300 | 12 | 10 | - | - | - | 1000 | 4 | 80 |
| SDCL0603QR12□T02B02 | 120 | 6 | 300 | 12 | 10 | - | - | - | 800 | 5 | 80 |

SDCL0603Q-02B03 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 | Ir |
| SDCL0603Q0N6□T02B03 | 0.6 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 20000 | 0.06 | 850 |
| SDCL0603Q0N7□T02B03 | 0.7 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 20000 | 0.06 | 800 |



Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/15

SPECIFICATIONS

SDCL0603Q-02B03 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 | Ir |
| SDCL0603Q0N8□T02B03 | 0.8 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 18000 | 0.07 | 800 |
| SDCL0603Q0N9□T02B03 | 0.9 | 13 | 500 | >24 | >32 | >54 | >57 | >65 | 18000 | 0.07 | 750 |
| SDCL0603Q1N0□T02B03 | 1.0 | 13 | 500 | 24 | 32 | 54 | 57 | 65 | 17000 | 0.08 | 750 |
| SDCL0603Q1N1□T02B03 | 1.1 | 13 | 500 | 19 | 26 | 45 | 47 | 55 | 17000 | 0.10 | 750 |
| SDCL0603Q1N2□T02B03 | 1.2 | 13 | 500 | 19 | 25 | 43 | 44 | 52 | 17000 | 0.10 | 750 |
| SDCL0603Q1N3□T02B03 | 1.3 | 13 | 500 | 19 | 25 | 40 | 42 | 47 | 17000 | 0.12 | 600 |
| SDCL0603Q1N4□T02B03 | 1.4 | 13 | 500 | 19 | 24 | 39 | 41 | 47 | 16000 | 0.12 | 600 |
| SDCL0603Q1N5□T02B03 | 1.5 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 15000 | 0.12 | 600 |
| SDCL0603Q1N6□T02B03 | 1.6 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 15000 | 0.13 | 600 |
| SDCL0603Q1N7□T02B03 | 1.7 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 15000 | 0.15 | 600 |
| SDCL0603Q1N8□T02B03 | 1.8 | 13 | 500 | 19 | 24 | 39 | 41 | 46 | 15000 | 0.15 | 600 |
| SDCL0603Q1N9□T02B03 | 1.9 | 13 | 500 | 18 | 24 | 38 | 40 | 45 | 12500 | 0.15 | 600 |
| SDCL0603Q2N0□T02B03 | 2.0 | 13 | 500 | 17 | 24 | 38 | 39 | 44 | 12500 | 0.15 | 600 |
| SDCL0603Q2N1□T02B03 | 2.1 | 13 | 500 | 17 | 24 | 37 | 39 | 44 | 11000 | 0.15 | 600 |
| SDCL0603Q2N2□T02B03 | 2.2 | 13 | 500 | 17 | 24 | 38 | 40 | 43 | 11000 | 0.15 | 600 |
| SDCL0603Q2N3□T02B03 | 2.3 | 13 | 500 | 17 | 24 | 37 | 39 | 43 | 10000 | 0.20 | 500 |
| SDCL0603Q2N4□T02B03 | 2.4 | 13 | 500 | 17 | 23 | 36 | 38 | 42 | 10000 | 0.20 | 500 |
| SDCL0603Q2N5□T02B03 | 2.5 | 13 | 500 | 17 | 23 | 35 | 36 | 40 | 10000 | 0.20 | 500 |
| SDCL0603Q2N6□T02B03 | 2.6 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 10000 | 0.20 | 500 |
| SDCL0603Q2N7□T02B03 | 2.7 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 10000 | 0.20 | 500 |
| SDCL0603Q2N8□T02B03 | 2.8 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9500 | 0.20 | 500 |
| SDCL0603Q2N9□T02B03 | 2.9 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9500 | 0.20 | 500 |
| SDCL0603Q3N0□T02B03 | 3.0 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 9500 | 0.25 | 450 |
| SDCL0603Q3N1□T02B03 | 3.1 | 13 | 500 | 17 | 22 | 34 | 35 | 39 | 8500 | 0.25 | 450 |
| SDCL0603Q3N2□T02B03 | 3.2 | 13 | 500 | 17 | 22 | 33 | 35 | 39 | 8200 | 0.25 | 450 |
| SDCL0603Q3N3□T02B03 | 3.3 | 13 | 500 | 18 | 23 | 34 | 36 | 40 | 8100 | 0.25 | 450 |
| SDCL0603Q3N4□T02B03 | 3.4 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 8000 | 0.25 | 450 |
| SDCL0603Q3N5□T02B03 | 3.5 | 13 | 500 | 17 | 23 | 33 | 35 | 39 | 7900 | 0.25 | 450 |
| SDCL0603Q3N6□T02B03 | 3.6 | 13 | 500 | 16 | 23 | 33 | 35 | 39 | 7700 | 0.30 | 400 |
| SDCL0603Q3N7□T02B03 | 3.7 | 13 | 500 | 16 | 23 | 33 | 35 | 38 | 7600 | 0.30 | 400 |
| SDCL0603Q3N8□T02B03 | 3.8 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7500 | 0.30 | 400 |
| SDCL0603Q3N9□T02B03 | 3.9 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 7400 | 0.30 | 400 |
| SDCL0603Q4N3□T02B03 | 4.3 | 13 | 500 | 16 | 21 | 32 | 34 | 37 | 6800 | 0.40 | 350 |
| SDCL0603Q4N7□T02B03 | 4.7 | 13 | 500 | 16 | 22 | 33 | 35 | 38 | 6200 | 0.40 | 350 |
| SDCL0603Q5N1□T02B03 | 5.1 | 13 | 500 | 17 | 22 | 34 | 36 | 38 | 5900 | 0.40 | 350 |
| SDCL0603Q5N6□T02B03 | 5.6 | 13 | 500 | 16 | 21 | 33 | 34 | 37 | 5500 | 0.40 | 350 |
| SDCL0603Q6N2□T02B03 | 6.2 | 13 | 500 | 18 | 23 | 34 | 35 | 37 | 5100 | 0.48 | 300 |
| SDCL0603Q6N8□T02B03 | 6.8 | 13 | 500 | 17 | 22 | 32 | 33 | 35 | 5500 | 0.50 | 300 |
| SDCL0603Q7N5□T02B03 | 7.5 | 13 | 500 | 16 | 21 | 31 | 33 | 34 | 4700 | 0.50 | 300 |
| SDCL0603Q8N2□T02B03 | 8.2 | 13 | 500 | 16 | 21 | 31 | 32 | 34 | 4300 | 0.56 | 250 |
| SDCL0603Q9N1□T02B03 | 9.1 | 13 | 500 | 16 | 20 | 30 | 31 | 32 | 4100 | 0.70 | 250 |
| SDCL0603Q10N□T02B03 | 10 | 13 | 500 | 16 | 20 | 28 | 29 | 31 | 3800 | 0.70 | 250 |
| SDCL0603Q12N□T02B03 | 12 | 13 | 500 | 16 | 20 | 27 | 28 | 28 | 3400 | 0.70 | 250 |
| SDCL0603Q15N□T02B03 | 15 | 13 | 500 | 15 | 19 | 24 | 24 | 23 | 2600 | 0.70 | 250 |
| SDCL0603Q18N□T02B03 | 18 | 13 | 500 | 15 | 19 | 23 | 24 | 22 | 2300 | 0.80 | 200 |
| SDCL0603Q22N□T02B03 | 22 | 13 | 500 | 15 | 19 | 22 | 23 | 20 | 2200 | 1.20 | 150 |
| SDCL0603Q27N□T02B03 | 27 | 13 | 500 | 15 | 19 | 15 | 13 | 8 | 2000 | 1.60 | 140 |
| SDCL0603Q33N□T02B03 | 33 | 11 | 300 | 14 | 15 | 8 | 5 | - | 2000 | 2.20 | 120 |



Specifications subject to change without notice. Please check our website for latest information. Revised 2018/04/15

SPECIFICATIONS

SDCL0603Q-02B03 Series

| Part Number | Inductance | Min. Quality Factor | L, Q Test Freq. L/Q | 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 |
| SDCL0603Q39N□T02B03 | 39 | 11 | 300 | 14 | 15 | 6 | - | - | 1600 | 2.30 | 120 |
| SDCL0603Q47N□T02B03 | 47 | 11 | 300 | 14 | 15 | - | - | - | 1500 | 2.60 | 100 |
| SDCL0603Q56N□T02B03 | 56 | 11 | 300 | 13 | 13 | - | - | - | 1400 | 2.80 | 100 |
| SDCL0603Q68N□T02B03 | 68 | 11 | 300 | 13 | 11 | - | - | - | 1200 | 3.20 | 100 |
| SDCL0603Q82N□T02B03 | 82 | 10 | 300 | 12 | 10 | - | - | - | 1100 | 3.80 | 100 |
| SDCL0603QR10□T02B03 | 100 | 10 | 300 | 12 | 10 | - | - | - | 1000 | 4.00 | 80 |
| SDCL0603QR12□T02B03 | 120 | 9 | 300 | 12 | 8 | - | - | - | 1000 | 5.00 | 80 |

※□: Please specify the inductance tolerance. For $L \leq 4.2\text{nH}$, choose $B = \pm 0.1\text{nH}$, $C = \pm 0.2\text{nH}$ or $S = \pm 0.3\text{nH}$; For $4.2\text{nH} < L < 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$. or $S = \pm 0.3\text{nH}$; For $L \geq 5.6\text{nH}$, choose, $H = \pm 3\%$, $J = \pm 5\%$

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

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