



Operating Temp : -55°C ~+125°C

## FEATURES

- |                |                                                    |
|----------------|----------------------------------------------------|
| ◆ 迭层独石结构、高度可靠性 | ◆ Monolithic structure for high reliability        |
| ◆ 高自谐频率        | ◆ High self-resonant frequency                     |
| ◆ 良好的可焊性和耐焊性   | ◆ Excellent solderability and high heat resistance |
| ◆ AEC-Q200D 认证 | ◆ AEC-Q200D verified                               |

## APPLICATIONS

- |            |                                   |
|------------|-----------------------------------|
| ◆ 车载信息娱乐系统 | ◆ Infotainment system             |
| ◆ PKE      | ◆ Passive keyless entry           |
| ◆ 胎压监测     | ◆ Tire pressure monitoring system |

## PRODUCT IDENTIFICATION

1

A

2

SDCL

3

03

4

Q

5

3N9

6

□

7

T

1

品类 Feature Code

A

车载品  
Automotive Electronics

2

分类 Type

SDCL

片式陶瓷电感  
Chip Ceramic Inductor

3

外形尺寸 (L×W) (mm)  
External Dimensions (L×W) (mm)

0603 [0201]

0.6×0.3

4

特性代号 Characteristics Code

Q

5

公称电感量 Nominal Inductance

Example

Nominal Value

3N93.9nH

10N10nH

R12120nH

6

电感公差 Inductance Tolerance

B±0.1nH

C±0.2nH

S±0.3nH

H±3%

J±5%

7

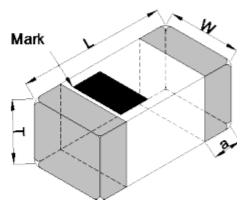
包装 Packing

T

编带 Tape & Reel

## 外观尺寸

### SHAPE AND DIMENSIONS



| 单位 Unit: mm [inch] |                          |                          |                          |                          |
|--------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| Type               | L                        | W                        | T                        | a                        |
| ASDCL03Q<br>[0201] | 0.6±0.03<br>[.024±.0012] | 0.3±0.03<br>[.012±.0012] | 0.3±0.03<br>[.012±.0012] | 0.12±0.05<br>[.005±.002] |

## 规格特性

### SPECIFICATIONS

#### ASDCL03Q TYPE

| Part Number     | L<br>(nH) | Q<br>Min. | L, Q Test<br>Freq(MHz) | Q (Typ.) @Freq. (GHz) |     |     |     |     | S.R.F<br>(MHz)Min | DCR<br>(Ω) Max. | Ir (mA)<br>Max. | Thickness<br>(mm)[inch]  |
|-----------------|-----------|-----------|------------------------|-----------------------|-----|-----|-----|-----|-------------------|-----------------|-----------------|--------------------------|
|                 |           |           |                        | 0.5                   | 0.8 | 1.8 | 2   | 2.4 |                   |                 |                 |                          |
| ASDCL03Q0N6 □ T | 0.6       | 14        | 500                    | >24                   | >32 | >54 | >57 | >65 | 20000             | 0.06            | 850             | 0.3±0.03<br>[.012±.0012] |
| ASDCL03Q0N7 □ T | 0.7       | 14        | 500                    | >24                   | >32 | >54 | >57 | >65 | 20000             | 0.06            | 800             |                          |
| ASDCL03Q0N8 □ T | 0.8       | 14        | 500                    | >24                   | >32 | >54 | >57 | >65 | 18000             | 0.07            | 800             |                          |
| ASDCL03Q0N9 □ T | 0.9       | 14        | 500                    | >24                   | >32 | >54 | >57 | >65 | 18000             | 0.07            | 750             |                          |
| ASDCL03Q1N0 □ T | 1         | 14        | 500                    | 24                    | 32  | 54  | 57  | 65  | 17000             | 0.08            | 750             |                          |
| ASDCL03Q1N1 □ T | 1.1       | 14        | 500                    | 19                    | 26  | 45  | 47  | 55  | 17000             | 0.1             | 750             |                          |
| ASDCL03Q1N2 □ T | 1.2       | 14        | 500                    | 19                    | 25  | 43  | 44  | 52  | 17000             | 0.1             | 750             |                          |
| ASDCL03Q1N3 □ T | 1.3       | 14        | 500                    | 19                    | 25  | 40  | 42  | 47  | 17000             | 0.12            | 600             |                          |
| ASDCL03Q1N4 □ T | 1.4       | 14        | 500                    | 19                    | 24  | 39  | 41  | 47  | 16000             | 0.12            | 600             |                          |
| ASDCL03Q1N5 □ T | 1.5       | 14        | 500                    | 19                    | 24  | 39  | 41  | 46  | 15000             | 0.12            | 600             |                          |
| ASDCL03Q1N6 □ T | 1.6       | 14        | 500                    | 19                    | 24  | 39  | 41  | 46  | 15000             | 0.13            | 600             |                          |
| ASDCL03Q1N7 □ T | 1.7       | 14        | 500                    | 19                    | 24  | 39  | 41  | 46  | 15000             | 0.15            | 600             |                          |
| ASDCL03Q1N8 □ T | 1.8       | 14        | 500                    | 19                    | 24  | 39  | 41  | 46  | 15000             | 0.15            | 600             |                          |
| ASDCL03Q1N9 □ T | 1.9       | 14        | 500                    | 18                    | 24  | 38  | 40  | 45  | 12500             | 0.15            | 600             |                          |
| ASDCL03Q2N0 □ T | 2         | 14        | 500                    | 17                    | 24  | 38  | 39  | 44  | 12500             | 0.15            | 600             |                          |
| ASDCL03Q2N1 □ T | 2.1       | 14        | 500                    | 17                    | 24  | 37  | 39  | 44  | 11000             | 0.15            | 600             |                          |
| ASDCL03Q2N2 □ T | 2.2       | 14        | 500                    | 17                    | 24  | 38  | 40  | 43  | 11000             | 0.15            | 600             |                          |
| ASDCL03Q2N3 □ T | 2.3       | 14        | 500                    | 17                    | 24  | 37  | 39  | 43  | 10000             | 0.2             | 500             |                          |
| ASDCL03Q2N4 □ T | 2.4       | 14        | 500                    | 17                    | 23  | 36  | 38  | 42  | 10000             | 0.2             | 500             |                          |
| ASDCL03Q2N5 □ T | 2.5       | 14        | 500                    | 17                    | 23  | 35  | 36  | 40  | 10000             | 0.2             | 500             |                          |
| ASDCL03Q2N6 □ T | 2.6       | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 10000             | 0.2             | 500             |                          |
| ASDCL03Q2N7 □ T | 2.7       | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 10000             | 0.2             | 500             |                          |
| ASDCL03Q2N8 □ T | 2.8       | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 9500              | 0.2             | 500             |                          |
| ASDCL03Q2N9 □ T | 2.9       | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 9500              | 0.2             | 500             |                          |
| ASDCL03Q3N0 □ T | 3         | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 9500              | 0.25            | 450             |                          |
| ASDCL03Q3N1 □ T | 3.1       | 14        | 500                    | 17                    | 22  | 34  | 35  | 39  | 8500              | 0.25            | 450             |                          |
| ASDCL03Q3N2 □ T | 3.2       | 14        | 500                    | 17                    | 22  | 33  | 35  | 39  | 8200              | 0.25            | 450             |                          |
| ASDCL03Q3N3 □ T | 3.3       | 14        | 500                    | 18                    | 23  | 34  | 36  | 40  | 8100              | 0.25            | 450             |                          |
| ASDCL03Q3N4 □ T | 3.4       | 14        | 500                    | 17                    | 23  | 33  | 35  | 39  | 8000              | 0.25            | 450             |                          |
| ASDCL03Q3N5 □ T | 3.5       | 14        | 500                    | 17                    | 23  | 33  | 35  | 39  | 7900              | 0.25            | 450             |                          |
| ASDCL03Q3N6 □ T | 3.6       | 14        | 500                    | 16                    | 23  | 33  | 35  | 39  | 7700              | 0.3             | 400             |                          |
| ASDCL03Q3N7 □ T | 3.7       | 14        | 500                    | 16                    | 23  | 33  | 35  | 38  | 7600              | 0.3             | 400             |                          |
| ASDCL03Q3N8 □ T | 3.8       | 14        | 500                    | 16                    | 22  | 33  | 35  | 38  | 7500              | 0.3             | 400             |                          |
| ASDCL03Q3N9 □ T | 3.9       | 14        | 500                    | 16                    | 22  | 33  | 35  | 38  | 7400              | 0.3             | 400             |                          |
| ASDCL03Q4N3 □ T | 4.3       | 14        | 500                    | 16                    | 21  | 32  | 34  | 37  | 6800              | 0.4             | 350             |                          |
| ASDCL03Q4N7 □ T | 4.7       | 14        | 500                    | 16                    | 22  | 33  | 35  | 38  | 6200              | 0.4             | 350             |                          |
| ASDCL03Q5N1 □ T | 5.1       | 14        | 500                    | 17                    | 22  | 34  | 36  | 38  | 5900              | 0.4             | 350             |                          |
| ASDCL03Q5N6 □ T | 5.6       | 14        | 500                    | 16                    | 21  | 33  | 34  | 37  | 5500              | 0.4             | 350             |                          |
| ASDCL03Q6N2 □ T | 6.2       | 14        | 500                    | 18                    | 23  | 34  | 35  | 37  | 5100              | 0.48            | 300             |                          |
| ASDCL03Q6N8 □ T | 6.8       | 14        | 500                    | 17                    | 22  | 32  | 33  | 35  | 5500              | 0.5             | 300             |                          |
| ASDCL03Q7N5 □ T | 7.5       | 14        | 500                    | 16                    | 21  | 31  | 33  | 34  | 4700              | 0.5             | 300             |                          |
| ASDCL03Q8N2 □ T | 8.2       | 14        | 500                    | 16                    | 21  | 31  | 32  | 34  | 4300              | 0.56            | 250             |                          |
| ASDCL03Q9N1 □ T | 9.1       | 14        | 500                    | 16                    | 20  | 30  | 31  | 32  | 4100              | 0.7             | 250             |                          |
| ASDCL03Q10N □ T | 10        | 14        | 500                    | 16                    | 20  | 28  | 29  | 31  | 3800              | 0.7             | 250             |                          |
| ASDCL03Q11N □ T | 11        | 14        | 500                    | 16                    | 20  | 27  | 28  | 28  | 3400              | 0.7             | 250             |                          |
| ASDCL03Q12N □ T | 12        | 14        | 500                    | 16                    | 20  | 27  | 28  | 28  | 3400              | 0.7             | 250             |                          |
| ASDCL03Q13N □ T | 13        | 14        | 500                    | 15                    | 19  | 24  | 21  | 15  | 2600              | 0.7             | 250             |                          |
| ASDCL03Q15N □ T | 15        | 13        | 500                    | 15                    | 19  | 23  | 21  | 14  | 2600              | 0.7             | 250             |                          |
| ASDCL03Q16N □ T | 16        | 13        | 500                    | 15                    | 19  | 23  | 20  | 12  | 2300              | 0.8             | 200             |                          |
| ASDCL03Q18N □ T | 18        | 13        | 500                    | 15                    | 19  | 23  | 20  | 12  | 2300              | 0.8             | 200             |                          |
| ASDCL03Q20N □ T | 20        | 13        | 500                    | 15                    | 19  | 22  | 19  | 10  | 2200              | 1.2             | 150             |                          |
| ASDCL03Q22N □ T | 22        | 13        | 500                    | 15                    | 19  | 22  | 19  | 10  | 2200              | 1.2             | 150             |                          |
| ASDCL03Q24N □ T | 24        | 13        | 500                    | 15                    | 19  | 15  | 13  | 8   | 2000              | 1.6             | 140             |                          |
| ASDCL03Q27N □ T | 27        | 13        | 500                    | 15                    | 19  | 15  | 13  | 8   | 2000              | 1.6             | 140             |                          |
| ASDCL03Q30N □ T | 30        | 11        | 500                    | 14                    | 15  | 8   | 5   | -   | 2000              | 2.2             | 120             |                          |

## 规格特性

### SPECIFICATIONS

#### ASDCL03Q TYPE

| Part Number     | L<br>(nH) | Q<br>Min. | L, Q Test<br>Freq(MHz) | Q (Typ.) @Freq. (GHz) |     |     |   |     | S.R.F<br>(MHz)Min | DCR<br>(Ω) Max. | Ir (mA)<br>Max. | Thickness<br>(mm)[inch]  |
|-----------------|-----------|-----------|------------------------|-----------------------|-----|-----|---|-----|-------------------|-----------------|-----------------|--------------------------|
|                 |           |           |                        | 0.5                   | 0.8 | 1.8 | 2 | 2.4 |                   |                 |                 |                          |
| ASDCL03Q33N □ T | 33        | 11        | 300                    | 14                    | 15  | 8   | 5 | -   | 2000              | 2.2             | 120             | 0.3±0.03<br>[.012±.0012] |
| ASDCL03Q36N □ T | 36        | 11        | 300                    | 14                    | 15  | 6   | - | -   | 1600              | 2.3             | 120             |                          |
| ASDCL03Q39N □ T | 39        | 11        | 300                    | 14                    | 15  | 6   | - | -   | 1600              | 2.3             | 120             |                          |
| ASDCL03Q47N □ T | 47        | 11        | 300                    | 14                    | 15  | -   | - | -   | 1500              | 2.6             | 100             |                          |
| ASDCL03Q51N □ T | 51        | 11        | 300                    | 13                    | 13  | -   | - | -   | 1400              | 2.8             | 100             |                          |
| ASDCL03Q56N □ T | 56        | 11        | 300                    | 13                    | 13  | -   | - | -   | 1400              | 2.8             | 100             |                          |
| ASDCL03Q62N □ T | 62        | 11        | 300                    | 13                    | 11  | -   | - | -   | 1200              | 3.2             | 100             |                          |
| ASDCL03Q68N □ T | 68        | 11        | 300                    | 13                    | 11  | -   | - | -   | 1200              | 3.2             | 100             |                          |
| ASDCL03Q75N □ T | 75        | 10        | 300                    | 12                    | 10  | -   | - | -   | 1100              | 3.8             | 100             |                          |
| ASDCL03Q82N □ T | 82        | 10        | 300                    | 12                    | 10  | -   | - | -   | 1100              | 3.8             | 100             |                          |
| ASDCL03Q91N □ T | 91        | 10        | 300                    | 12                    | 10  | -   | - | -   | 1000              | 4               | 80              |                          |
| ASDCL03QR10 □ T | 100       | 10        | 300                    | 12                    | 10  | -   | - | -   | 1000              | 4               | 80              |                          |
| ASDCL03QR11 □ T | 110       | 9         | 300                    | 12                    | 8   | -   | - | -   | 1000              | 5               | 80              |                          |
| ASDCL03QR12 □ T | 120       | 9         | 300                    | 12                    | 8   | -   | - | -   | 1000              | 5               | 80              |                          |

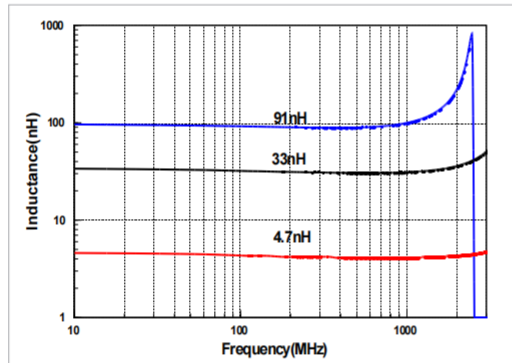
※ □ : 请具体说明电感值公差。对于 L < 4.3nH, 选择 B=±0.1nH, C=±0.2nH 或者 S=±0.3nH; 对于 4.3nH ≤ L < 5.6nH, 选择 H=±3%, J=±5% 或者 S=±0.3nH; 对于 L ≥ 5.6nH, 选择 H=±3%, J=±5%

※ □ : Please specify the inductance tolerance. For L < 4.3nH, choose B=±0.1nH, C=±0.2nH or S=±0.3nH; For 4.3nH ≤ L < 5.6nH, choose H=±3%, J=±5% or S=±0.3nH; For L ≥ 5.6nH, choose H=±3%, J=±5%

## 电气特性

### TYPICAL ELECTRICAL CHARACTERISTICS

Inductance vs. Frequency Characteristics  
ASDCL03Q TYPE



Q vs. Frequency Characteristics  
ASDCL03Q TYPE

