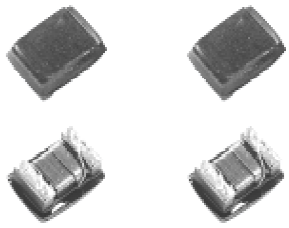
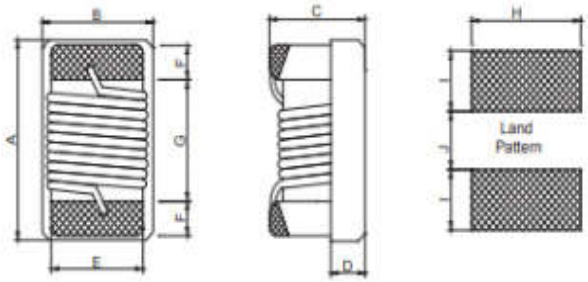
# 方成电子（东莞）有限公司

# Chip Inductors Wire Wound CFN0805CS-Series

- CFN0805CS- Series

## 1.Dimensions(mm)






- **Introduction And Application**

Wire-wound chip inductors offer the best overall combination of low cost, close tolerance, better Q factor and high SRF than multiplayer chip inductor which are widely used in communication and wireless application
For high-frequency application such as:

- **Test Equipment and Conditions**

Inductance measured by using HP-4286A LCR meter with HP-16193A test fixture.
Q measured with HP-4291B impedance analyzer.
According to EIA-481 standard.

- **Features**

High frequency applications
Close tolerance application. Tolerance of 2% is available for particular inductance values.
Small footprint as well as low profile
High Q factor

| NO. | A (max) | B (max) | C (max) | D Typ. | E | F | G | H | I | J |
|---|---|---|---|---|---|---|---|---|---|---|
| Spec. | 2.29 | 1.73 | 1.52 | 0.51 | 1.27 | 0.51 | 1.02 | 1.78 | 1.02 | 0.76 |

## 2. Electrical characteristics

| Part Number1 | Part Number1 | Tolerance3 | Q min4 | SRF min5 (MHz) | DCR max (Ohms) | IRMS7 (mA) |
|---|---|---|---|---|---|---|
| CFN0805CS-2N8X -B- | 2.8@ 250 MHz | 20.10.5 | 80@ 1500 MHz | 7900 | 0.06 | 800 |
| CFN0805CS-3N0X -B- | 3.0@ 250 MHz | 20.10.5 | 65@ 1500 MHz | 7900 | 0.06 | 800 |
| CFN0805CS-3N3X -B- | 3.3@ 250 MHz | 20.10.5 | 50@ 1500 MHz | 7900 | 0.08 | 600 |
| CFN0805CS-5N6X -B- | 5.6@ 250 MHz | 20.10.5 | 65@ 1500 MHz | 5500 | 0.08 | 600 |
| CFN0805CS-6N8X -B- | 6.8@ 250 MH | 20.10.5 | 50@ 1500 MH | 5500 | 0.11 | 600 |
| CFN0805CS-7N5X -B- | 7.5@ 250 MHz | 20.10.5 | 50@ 1500 MHz | 4500 | 0.14 | 600 |
| CFN0805CS-8N2X -B- | 8.2@ 250 MHz | 20.10.5.2 | 50@ 1500 MHz | 4700 | 0.12 | 600 |
| CFN0805CS-100X -B- | 10@ 250 MHz | 20.10.5.2 | 60@ 1500 MHz | 4200 | 0.1 | 600 |
| CFN0805CS-120X -B- | 12@ 250 MHz | 20.10.5.2 | 50@ 1500 MHz | 4000 | 0.15 | 600 |
| CFN0805CS-150X -B- | 15@ 250 MHz | 20.10.5.2 | 50@ 1500 MHz | 3400 | 0.17 | 600 |
| CFN0805CS-180X -B- | 18@ 250 MHz | 20.10.5.2 | 50@ 1500 MHz | 3300 | 0.2 | 600 |
| CFN0805CS-220X -B- | 22@ 250 MHz | 20.10.5.2 | 50@ 1500 MHz | 2600 | 0.22 | 500 |

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| Part Number1 | Part Number1 | Tolerance3 | Q min4 | SRF min5 (MHz) | DCR max (Ohms) | IRMS7 (mA) |
|---|---|---|---|---|---|---|
| CFN0805CS-240X -B- | 24@ 250 MH | 20.10.5.2 | 50@ 1500 MH | 2000 | 0.22 | 500 |
| CFN0805CS-270X -B- | 27@ 250 MHz | 20.10.5.2 | 55@ 1500 MHz | 2500 | 0.25 | 500 |
| CFN0805CS-330X -B- | 33@ 250 MHz | 20.10.5.2 | 60@ 1500 MHz | 2050 | 0.27 | 500 |
| CFN0805CS-360X -B- | 36@ 250 MHz | 20.10.5.2 | 55@ 1500 MHz | 1700 | 0.27 | 500 |
| CFN0805CS-390X -B- | 39@ 250 MHz | 20.10.5.2 | 60@ 1500 MHz | 2000 | 0.29 | 500 |
| CFN0805CS-430X -B- | 43@ 200 MHz | 20.10.5.2 | 60@ 1500 MHz | 1650 | 0.34 | 500 |
| CFN0805CS-470X -B- | 47@ 200 MHz | 20.10.5.2 | 60@ 1500 MHz | 1650 | 0.31 | 500 |
| CFN0805CS-560X -B- | 56@ 200 MH | 10.5.2 | 60@ 1500 MH | 1550 | 0.34 | 500 |
| CFN0805CS-680X -B- | 68@ 200 MH | 10.5.2 | 60@ 1500 MH | 1450 | 0.38 | 500 |
| CFN0805CS-820X -B- | 82@ 150 MHz | 10.5.2 | 65@ 1500 MHz | 1300 | 0.42 | 400 |
| CFN0805CS-910X -B- | 91@ 150 MHz | 10.5.2 | 65@ 1500 MHz | 1200 | 0.48 | 400 |
| CFN0805CS-101X -B- | 100@ 150 MHz | 10.5.2 | 65@ 1500 MHz | 1200 | 0.46 | 400 |
| CFN0805CS-111X -B- | 110@ 150 MHz | 20.10.5.2 | 50@ 1500 MHz | 1000 | 0.48 | 400 |
| CFN0805CS-121X -B- | 120@ 150 MHz | 10.5.2 | 50@ 1500 MHz | 1100 | 0.51 | 400 |
| CFN0805CS-151X -B- | 150@ 100 MHz | 10.5.2 | 50@ 1500 MHz | 920 | 0.56 | 400 |
| CFN0805CS-181X -B- | 180@ 100 MHz | 10.5.2 | 50@ 1500 MHz | 870 | 0.64 | 400 |
| CFN0805CS-221X -B- | 220@ 100 MHz | 10.5.2 | 50@ 1500 MHz | 850 | 0.7 | 400 |
| CFN0805CS-241X -B- | 240@ 100 MH | 10.5.2 | 44@ 1500 MH | 690 | 1 | 350 |
| CFN0805CS-271X -B- | 270@ 100 MHz | 10.5.2 | 48@ 1500 MHz | 650 | 1 | 350 |
| CFN0805CS-331X -B- | 330@ 100 MHz | 10.5.2 | 48@ 1500 MHz | 600 | 1.4 | 310 |
| CFN0805CS-391X -B- | 390@ 100 MHz | 10.5.2 | 48@ 1500 MHz | 560 | 1.5 | 290 |
| CFN0805CS-471X -B- | 470@ 50 MHz | 10.5.2 | 33@ 1500 MHz | 375 | 1.76 | 250 |
| CFN0805CS-561X -B- | 560@ 25 MHz | 10.5.2 | 23@ 1500 MHz | 340 | 1.9 | 230 |
| CFN0805CS-681X -B- | 680@ 25 MHz | 10.5.2 | 23@ 1500 MHz | 188 | 2.20 | 190 |
| CFN0805CS-821X -B- | 820@ 25 MHz | 10.5.2 | 23@ 1500 MHz | 215 | 2.35 | 180 |

1.When ordering,please specify tolerance and packaging codes:CFN0603CS-68NJ-R-S-L--FTolerance:G=2% J=5%
(Table shows stock tolerances in bold.)

2.Inductance measured at 250MHz using a Fenfa SMD-F testfixture and Fenfa-provided correlation pieces with an Agilent/HP4286 impedance analyzer.

3.Tolerances in bold are stocked for immediate shipment.

4.Q measured using an Agilent/HP 4291A with an Agilent/HP 4287Atest fixture

5.For SRF> 6GHz,measured using an Agilent/HP4287A network analyzer and a Coilcraft SMD-D text fixture. For SRF-6GHz,Measured using an Agilent/HP 4287A network analyzer and a Fenfa SMD-D test fixture.

6.DCR measured on a micro-ohmmeter.

7.Average current for a 15℃rise above 25℃ambient

8.Operating temperature range-25℃ to +125℃.

9.Electrical specifications at 25℃.

See Qualification Standards section for environmental and test data.

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