

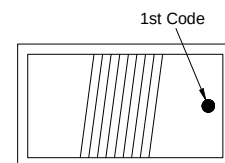
# SMD Wire Wound Ceramic Chip Inductors – 0805CS Series



CHONG YUE CO., LTD.

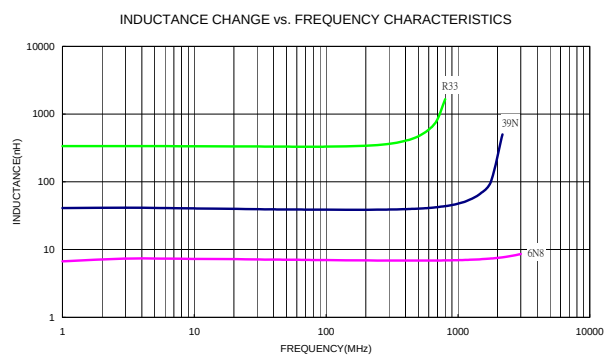
| Part Number | Inductance (nH) | Tolerance (±%) | Q Min       | SRF (MHz) Min | Rdc (Ω) Max | Irms (mA) Max | Color Coding |
|-------------|-----------------|----------------|-------------|---------------|-------------|---------------|--------------|
| 0805CS-3N0□ | 3.0 /250MHz     | J / K          | 50 /1500MHz | 7900          | 0.08        | 600           | Black        |
| 0805CS-5N6□ | 5.6 /250MHz     | J / K          | 65 /1000MHz | 5500          | 0.08        | 600           | Violet       |
| 0805CS-6N8□ | 6.8 /250MHz     | J / K          | 50 /1000MHz | 5500          | 0.11        | 600           | Brown        |
| 0805CS-7N5□ | 7.5 /250MHz     | G / J / K      | 50 /1000MHz | 4500          | 0.14        | 600           | Black        |
| 0805CS-8N2□ | 8.2 /250MHz     | G / J / K      | 50 /1000MHz | 4700          | 0.12        | 600           | Red          |
| 0805CS-10N□ | 10 /250MHz      | G / J / K      | 60 /500MHz  | 4200          | 0.10        | 600           | Red          |
| 0805CS-12N□ | 12 /250MHz      | G / J / K      | 50 /500MHz  | 4000          | 0.15        | 600           | Orange       |
| 0805CS-15N□ | 15 /250MHz      | G / J / K      | 50 /500MHz  | 3400          | 0.17        | 600           | Yellow       |
| 0805CS-18N□ | 18 /250MHz      | G / J / K      | 50 /500MHz  | 3300          | 0.20        | 600           | Green        |
| 0805CS-22N□ | 22 /250MHz      | G / J / K      | 55 /500MHz  | 2600          | 0.22        | 500           | Blue         |
| 0805CS-24N□ | 24 /250MHz      | G / J / K      | 50 /500MHz  | 2000          | 0.22        | 500           | Red          |
| 0805CS-27N□ | 27 /250MHz      | G / J / K      | 55 /500MHz  | 2500          | 0.25        | 500           | Violet       |
| 0805CS-33N□ | 33 /250MHz      | G / J / K      | 60 /500MHz  | 2050          | 0.27        | 500           | Gray         |
| 0805CS-36N□ | 36 /250MHz      | G / J / K      | 55 /500MHz  | 1700          | 0.27        | 500           | Yellow       |
| 0805CS-39N□ | 39 /250MHz      | G / J / K      | 60 /500MHz  | 2000          | 0.29        | 500           | White        |
| 0805CS-43N□ | 43 /200MHz      | G / J / K      | 60 /500MHz  | 1650          | 0.34        | 500           | Yellow       |
| 0805CS-47N□ | 47 /200MHz      | G / J / K      | 60 /500MHz  | 1650          | 0.31        | 500           | Black        |
| 0805CS-56N□ | 56 /200MHz      | G / J / K      | 60 /500MHz  | 1550          | 0.34        | 500           | Brown        |
| 0805CS-66N□ | 66 /200MHz      | G / J / K      | 60 /500MHz  | 1450          | 0.38        | 500           | Violet       |
| 0805CS-68N□ | 68 /200MHz      | G / J / K      | 60 /500MHz  | 1450          | 0.38        | 500           | Red          |
| 0805CS-82N□ | 82 /150MHz      | G / J / K      | 65 /500MHz  | 1300          | 0.42        | 400           | Orange       |
| 0805CS-91N□ | 91 /150MHz      | G / J / K      | 65 /500MHz  | 1200          | 0.48        | 400           | Blue         |
| 0805CS-R10□ | 100 /150MHz     | G / J / K      | 65 /500MHz  | 1200          | 0.46        | 400           | Yellow       |
| 0805CS-R12□ | 120 /150MHz     | G / J / K      | 50 /250MHz  | 1100          | 0.51        | 400           | Green        |
| 0805CS-R15□ | 150 /100MHz     | G / J / K      | 50 /250MHz  | 920           | 0.56        | 400           | Blue         |
| 0805CS-R18□ | 180 /100MHz     | G / J / K      | 50 /250MHz  | 870           | 0.64        | 400           | Violet       |
| 0805CS-R22□ | 220 /100MHz     | G / J / K      | 50 /250MHz  | 850           | 0.70        | 400           | Gray         |
| 0805CS-R24□ | 240 /100MHz     | G / J / K      | 44 /250MHz  | 690           | 1.00        | 350           | Black        |
| 0805CS-R27□ | 270 /100MHz     | G / J / K      | 48 /250MHz  | 650           | 1.00        | 350           | White        |
| 0805CS-R30□ | 300 /150MHz     | G / J / K      | 25 /250MHz  | 450           | 1.40        | 300           | Gray         |
| 0805CS-R33□ | 330 /100MHz     | G / J / K      | 48 /250MHz  | 600           | 1.40        | 310           | Black        |
| 0805CS-R39□ | 390 /100MHz     | G / J / K      | 48 /250MHz  | 560           | 1.50        | 290           | Brown        |
| 0805CS-R47□ | 470 /50MHz      | G / J / K      | 33 /100MHz  | 375           | 1.76        | 250           | Violet       |
| 0805CS-R56□ | 560 /25MHz      | G / J / K      | 23 /50MHz   | 340           | 1.90        | 230           | Orange       |
| 0805CS-R68□ | 680 /25MHz      | G / J / K      | 23 /50MHz   | 188           | 2.20        | 190           | Green        |
| 0805CS-R75□ | 750 /25MHz      | G / J / K      | 23 /50MHz   | 215           | 2.35        | 180           | Blue         |
| 0805CS-R82□ | 820 /25MHz      | G / J / K      | 23 /50MHz   | 215           | 2.35        | 180           | Brown        |
| 0805CS-1R0□ | 1000 /25MHz     | G / J / K      | 23 /50MHz   | 260           | 2.70        | 170           | Black        |

- When ordering, please specify tolerance and packaging codes. Ex: 0805CS-R10□
- Tolerance : G = ±2% , J = ±5% , K = ±10%
- Packaging: Clear tape and reel {standard}.
- L /Q: HP4287A+ Agilent 16197A
- SRF: HP8753D/ Agilent E4991A
- RDC: Digital Milliohm Meter Chroma 16502 or equivalent.
- I rms for a 15℃ rise above 25℃ ambient.
- Terminal: Tin plated
- Operating temperature range from –40℃ to 125℃

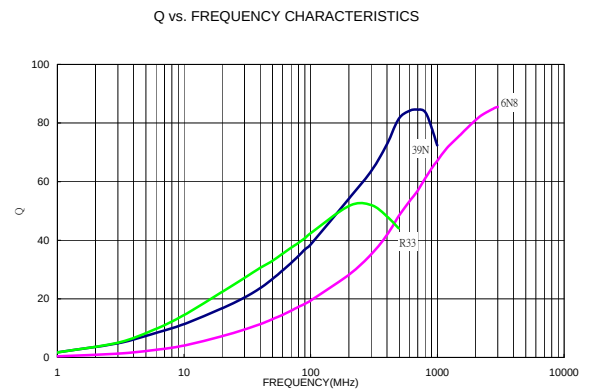


COLOR CODING

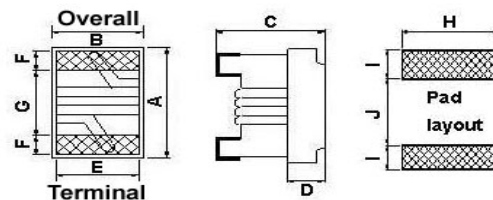
## Typical **L** vs. **F** Frequency



## Typical **Q** vs. **F** Frequency



## Shapes & Dimensions



### Dimensions

|               |    | A max | B max | C max | D ref | E    | F    | G    | H    | I    | J    |
|---------------|----|-------|-------|-------|-------|------|------|------|------|------|------|
| <b>0805CS</b> | mm | 2.29  | 1.73  | 1.52  | 0.65  | 1.27 | 0.51 | 1.02 | 1.78 | 1.02 | 0.76 |

Note: Parts/Reel: 3000/7" Tape Width: 8mm