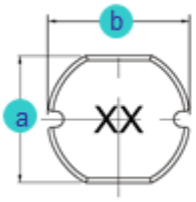
# CSN104D Series
# SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)
**Rev. A**

## A. Electrical Specifications:

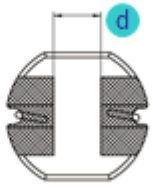
| P/N | Marking | Inductance (µH) | Test Freq. (KHz) | DCR Max. (Ω) | Rated Current (A) |
|---|---|---|---|---|---|
| **CSN104D-100M** | 100 | 10 | 100 | 0.053 | 2.38 |
| **CSN104D-120M** | 120 | 12 | 100 | 0.061 | 2.13 |
| **CSN104D-150M** | 150 | 15 | 100 | 0.070 | 1.87 |
| **CSN104D-180M** | 180 | 18 | 100 | 0.081 | 1.73 |
| **CSN104D-220M** | 220 | 22 | 100 | 0.088 | 1.60 |
| **CSN104D-270M** | 270 | 27 | 100 | 0.100 | 1.44 |
| **CSN104D-330M** | 330 | 33 | 100 | 0.120 | 1.26 |
| **CSN104D-390M** | 390 | 39 | 100 | 0.151 | 1.20 |
| **CSN104D-470M** | 470 | 47 | 100 | 0.170 | 1.10 |
| **CSN104D-560K** | 560 | 56 | 100 | 0.199 | 1.01 |
| **CSN104D-680K** | 680 | 68 | 100 | 0.223 | 0.91 |
| **CSN104D-820K** | 820 | 82 | 100 | 0.252 | 0.85 |
| **CSN104D-101K** | 101 | 100 | 10 | 0.344 | 0.74 |
| **CSN104D-121K** | 121 | 120 | 10 | 0.396 | 0.69 |
| **CSN104D-151K** | 151 | 150 | 10 | 0.544 | 0.61 |
| **CSN104D-181K** | 181 | 180 | 10 | 0.621 | 0.56 |
| **CSN104D-221K** | 221 | 220 | 10 | 0.721 | 0.53 |
| **CSN104D-271K** | 271 | 270 | 10 | 0.949 | 0.45 |
| **CSN104D-331K** | 331 | 330 | 10 | 1.100 | 0.42 |
| **CSN104D-391K** | 391 | 390 | 10 | 1.245 | 0.38 |
| **CSN104D-471K** | 471 | 470 | 10 | 1.526 | 0.35 |
| **CSN104D-561K** | 561 | 560 | 10 | 1.904 | 0.32 |
| **CSN104D-102K** | 102 | 1000 | 1 | 3.800 | 0.16 |

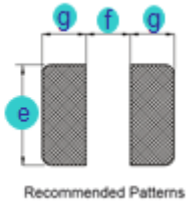
## B. Dimensions: mm (Inch)

| Series | a | b | c | d | e | f | g |
|---|---|---|---|---|---|---|---|
| **CSN104D** | 9.0 (0.354) | 10.0 (0.394) | 4.0 (0.157) | 2.2 (0.087) | 9.5 (0.374) | 2.5 (0.098) | 3.75 (0.148) |
| **Tol.** | ±0.3 (0.012) | ±0.3 (0.012) | ±0.5 (0.020) | Typ. | Typ. | Typ. | Typ. |








## C. General Information:

1. CSN104D-xxx_, “CSN104D” = P/N, “xxx” = Inductance, “_” = Tolerance.
2. Tolerance “_”: M: ± 20%, L= ± 15%, K = ±10%.
3. Operating temperature range: -30ºC to +100ºC (Including self-heating).
4. Storage temperature: -40ºC to +85ºC.
5. Inductance measured using the HP4284A and Chroma1320 & 3302.
6. DCR measured using Chroma 16502 milliohm meter.
7. Inductance drop no more than 10% of initial value at rated current, temperature rise Δt < 40ºC.
8. Inductance and Current range: From 10.0 µH (2.38A) to 1000.0 µH (0.16A).
9. MSL: Level 1.

## D. Applications:

1. Game Consoles
2. Set Top Boxes
3. Cables Modems
4. Computers
5. Mobile Communication Devices (Cell Phones, Radios, etc.)
6. PDA, LCD, DVD, BRP, HD

## E. Characteristics Curve: