# CSN043D Series
# SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)
**Rev. A**

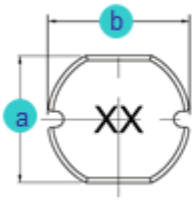
## A. Electrical Specifications:

| P/N | Marking | Inductance (µH) | Test Freq. (KHz) | DCR Max. (Ω) | Rated Current (A) |
|---|---|---|---|---|---|
| **CSN043D-1R0M** | 1R0 | 1.0 | 100 | 0.0487 | 2.56 |
| **CSN043D-1R4M** | 1R4 | 1.4 | 100 | 0.0562 | 2.52 |
| **CSN043D-1R8M** | 1R8 | 1.8 | 100 | 0.0637 | 1.95 |
| **CSN043D-2R2M** | 2R2 | 2.2 | 100 | 0.0712 | 1.75 |
| **CSN043D-2R7M** | 2R7 | 2.7 | 100 | 0.0787 | 1.58 |
| **CSN043D-3R3M** | 3R3 | 3.3 | 100 | 0.0862 | 1.44 |
| **CSN043D-3R9M** | 3R9 | 3.9 | 100 | 0.0937 | 1.33 |
| **CSN043D-4R7M** | 4R7 | 4.7 | 100 | 0.1087 | 1.15 |
| **CSN043D-5R6M** | 5R6 | 5.6 | 100 | 0.1257 | 0.99 |
| **CSN043D-6R8M** | 6R8 | 6.8 | 100 | 0.1312 | 0.95 |
| **CSN043D-8R2M** | 8R2 | 8.2 | 100 | 0.1462 | 0.84 |
| **CSN043D-100M** | 100 | 10 | 100 | 0.182 | 1.04 |
| **CSN043D-120M** | 120 | 12 | 100 | 0.210 | 0.97 |
| **CSN043D-150M** | 150 | 15 | 100 | 0.235 | 0.85 |
| **CSN043D-180M** | 180 | 18 | 100 | 0.338 | 0.74 |
| **CSN043D-220M** | 220 | 22 | 100 | 0.378 | 0.68 |
| **CSN043D-270M** | 270 | 27 | 100 | 0.522 | 0.62 |
| **CSN043D-330K** | 330 | 33 | 100 | 0.540 | 0.56 |
| **CSN043D-390K** | 390 | 39 | 100 | 0.587 | 0.52 |
| **CSN043D-470K** | 470 | 47 | 100 | 0.844 | 0.44 |
| **CSN043D-560K** | 560 | 56 | 100 | 0.937 | 0.42 |
| **CSN043D-680K** | 680 | 68 | 100 | 1.117 | 0.37 |
| **CSN043D-331K** | 331 | 330 | 10 | 3.350 | 0.10 |

## B. Dimensions: mm (Inch)

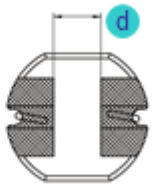
| Series | a | b | c | d | e | f | g |
|---|---|---|---|---|---|---|---|
| **CSN043D** | 4.0 (0.157) | 4.5 (0.177) | 3.2 (0.126) | 1.2 (0.047) | 4.5 (0.177) | 1.5 (0.059) | 1.75 (0.069) |
| **Tol.** | ±0.3 (0.012) | ±0.3 (0.012) | ±0.3 (0.012) | Typ. | Typ. | Typ. | Typ. |

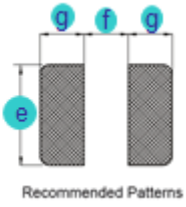









## C. General Information:

1. CSN043D-xxx_, "CSN043D" = 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 $\Delta t < 40$ºC.
8. Inductance and Current range: From 1.0 µH (2.56A) to 330.0 µH (0.10A).
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


667 E. Cochran St., Simi Valley, CA 93065
Phone: 1-805-522-9998, Fax: 1-805-522-9989

## E. Characteristics Curve:

