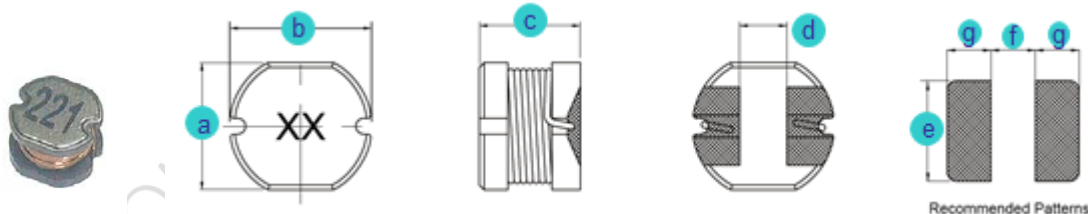


## A. Electrical Specifications:

| P/N          | Marking | Inductance<br>( $\mu$ H) | Test Freq.<br>(KHz) | DCR Max.<br>( $\Omega$ ) | Rated Current<br>(A) |
|--------------|---------|--------------------------|---------------------|--------------------------|----------------------|
| CSN054D-1R0M | 1R0     | 1.0                      | 100                 | 0.015                    | 4.00                 |
| CSN054D-1R9M | 1R9     | 1.9                      | 100                 | 0.039                    | 3.00                 |
| CSN054D-2R2M | 2R2     | 2.2                      | 100                 | 0.020                    | 4.00                 |
| CSN054D-3R3M | 3R3     | 3.3                      | 100                 | 0.021                    | 3.00                 |
| CSN054D-4R7M | 4R7     | 4.7                      | 100                 | 0.028                    | 2.00                 |
| CSN054D-6R8M | 6R8     | 6.8                      | 100                 | 0.042                    | 2.00                 |
| CSN054D-100M | 100     | 10                       | 100                 | 0.10                     | 1.44                 |
| CSN054D-120M | 120     | 12                       | 100                 | 0.12                     | 1.40                 |
| CSN054D-150M | 150     | 15                       | 100                 | 0.14                     | 1.30                 |
| CSN054D-180M | 180     | 18                       | 100                 | 0.15                     | 1.23                 |
| CSN054D-220M | 220     | 22                       | 100                 | 0.18                     | 1.11                 |
| CSN054D-270M | 270     | 27                       | 100                 | 0.20                     | 0.97                 |
| CSN054D-330L | 330     | 33                       | 100                 | 0.23                     | 0.88                 |
| CSN054D-390L | 390     | 39                       | 100                 | 0.32                     | 0.80                 |
| CSN054D-470L | 470     | 47                       | 100                 | 0.37                     | 0.72                 |
| CSN054D-560K | 560     | 56                       | 100                 | 0.42                     | 0.68                 |
| CSN054D-680K | 680     | 68                       | 100                 | 0.46                     | 0.61                 |
| CSN054D-820K | 820     | 82                       | 100                 | 0.60                     | 0.58                 |
| CSN054D-101K | 101     | 100                      | 10                  | 0.70                     | 0.52                 |
| CSN054D-121K | 121     | 120                      | 10                  | 0.93                     | 0.48                 |
| CSN054D-151K | 151     | 150                      | 10                  | 1.10                     | 0.40                 |
| CSN054D-181K | 181     | 180                      | 10                  | 1.38                     | 0.38                 |
| CSN054D-221K | 221     | 220                      | 10                  | 1.57                     | 0.35                 |
| CSN054D-271K | 271     | 270                      | 10                  | 1.85                     | 0.30                 |

## B. Dimensions: mm (Inch)

| Series  | a                    | b                    | c                     | d              | e              | f              | g               |
|---------|----------------------|----------------------|-----------------------|----------------|----------------|----------------|-----------------|
| CSN054D | 5.2<br>(0.205)       | 5.8<br>(0.228)       | 4.5<br>(0.177)        | 1.5<br>(0.059) | 5.5<br>(0.217) | 1.7<br>(0.067) | 2.15<br>(0.085) |
| Tol.    | $\pm 0.3$<br>(0.012) | $\pm 0.3$<br>(0.012) | $\pm 0.35$<br>(0.014) | Typ.           | Typ.           | Typ.           | Typ.            |



## C. General Information:

1. CSN054D-xxx, "CSN054D" = P/N, "xxx" = Inductance, "-" = Tolerance.
2. Tolerance "-": M:  $\pm 20\%$ , L:  $\pm 15\%$ , K:  $\pm 10\%$ .
3. Operating temperature range:  $-30^{\circ}\text{C}$  to  $+100^{\circ}\text{C}$  (Including self-heating).
4. Storage temperature:  $-40^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$ .
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  $\Delta t < 40^{\circ}\text{C}$ .
8. Inductance and Current range: From 1.0  $\mu\text{H}$  (4.00A) to 270.0  $\mu\text{H}$  (0.30A).
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



# CSN054D Series SMD WIRE WOUND POWER INDUCTORS (UNSHIELDED)

Rev. A

## E. Characteristics Curve:

