

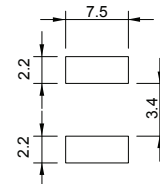
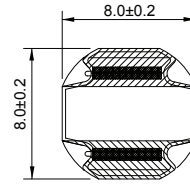
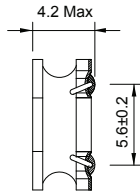
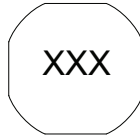
# CSM0840D Series (SHIELDED)

## ■ SMD Wire Wound Power Inductors

### MECHANICAL DIMENSIONS



CSM0840D



Recommended Patterns

unit: mm

### ELECTRICAL SPECIFICATION

| Part Number       | Marking | Inductance (μH) | Test Freq. (KHz) | DCR (mΩ) | Isat (A) | Irms (A) | SRF (MHz) | Inductance Tolerance |      |
|-------------------|---------|-----------------|------------------|----------|----------|----------|-----------|----------------------|------|
|                   |         |                 |                  | Max.     | Max.     | Max.     | Min.      |                      |      |
| CSM0840D-R90N-LRH | R90     | 0.90            | 100              | 7.80     | 12.0     | 8.00     | 85.0      | ±30%                 |      |
| CSM0840D-1R4N-LRH | 1R4     | 1.40            | 100              | 9.10     | 10.8     | 7.80     | 63.0      |                      |      |
| CSM0840D-2R0N-LRH | 2R0     | 2.00            | 100              | 11.7     | 9.00     | 7.40     | 50.0      |                      |      |
| CSM0840D-2R2N-LRH | 2R2     | 2.20            | 100              | 15.6     | 7.50     | 6.00     | 41.0      |                      |      |
| CSM0840D-3R3N-LRH | 3R3     | 3.30            | 100              | 19.5     | 7.00     | 5.10     | 27.0      |                      |      |
| CSM0840D-3R6N-LRH | 3R6     | 3.60            | 100              | 19.5     | 6.00     | 4.90     | 34.0      |                      |      |
| CSM0840D-4R7N-LRH | 4R7     | 4.70            | 100              | 23.4     | 5.50     | 4.60     | 30.0      |                      |      |
| CSM0840D-6R8N-LRH | 6R8     | 6.80            | 100              | 31.2     | 5.00     | 4.40     | 24.0      |                      |      |
| CSM0840D-100M-LRH | 100     | 10.0            | 100              | 45.0     | 4.00     | 3.80     | 22.0      |                      | ±20% |
| CSM0840D-150M-LRH | 150     | 15.0            | 100              | 61.1     | 3.00     | 2.80     | 16.0      |                      |      |
| CSM0840D-220M-LRH | 220     | 22.0            | 100              | 89.7     | 2.80     | 2.60     | 13.0      |                      |      |
| CSM0840D-330M-LRH | 330     | 33.0            | 100              | 126.1    | 2.00     | 1.80     | 12.0      |                      |      |
| CSM0840D-470M-LRH | 470     | 47.0            | 100              | 176.8    | 1.90     | 1.75     | 8.00      |                      |      |
| CSM0840D-680M-LRH | 680     | 68.0            | 100              | 254.8    | 1.70     | 1.45     | 7.00      |                      |      |
| CSM0840D-101M-LRH | 101     | 100             | 100              | 377.0    | 1.10     | 1.10     | 6.00      |                      |      |

- Tolerance: N=± 30%, M=± 20%
- Test Equipment:  
L/Q: CHROMA-3302.  
SRF: HP-4291B or equivalent.  
RDC: CH16502 or equivalent.
- Isat: Based on Inductance decrease 30% (at 20°C )
- Irms: Based on Temperature increase 40°C (at 20°C )
- Operating temperature range: -25°C to +120°C (Including self-temperature rise)
- Storage Temp.: -40°C to +85°C

### CHARACTERISTIC CURVE

CSM0840D Series

