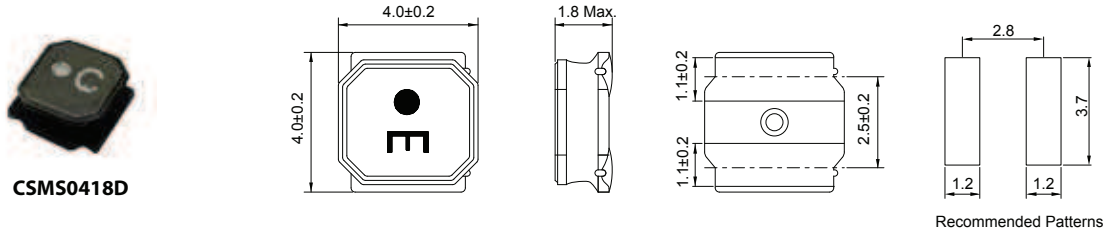


# CSMS0418D Series (SHIELDED)

## ■ SMD Wire Wound Power Inductors

### MECHANICAL DIMENSIONS



Recommended Patterns unit: mm

### ELECTRICAL SPECIFICATION

| Part Number        | Marking | Inductance @100KHz (uH) | Inductance Tolerance | DCR ±20% (Ω) | Rated Current (mA)      |                               | SRF (MHz) Min. |
|--------------------|---------|-------------------------|----------------------|--------------|-------------------------|-------------------------------|----------------|
|                    |         |                         |                      |              | Saturation Current Idc1 | Temperature Rise Current Idc2 |                |
| CSMS0418D-1R0N-LRH | A       | 1.0                     | ±30%                 | 0.027        | 4000                    | 3200                          | 90             |
| CSMS0418D-1R5N-LRH | B       | 1.5                     | ±30%                 | 0.037        | 3300                    | 2400                          | 75             |
| CSMS0418D-2R2M-LRH | C       | 2.2                     | ±20%                 | 0.042        | 3000                    | 2200                          | 60             |
| CSMS0418D-3R3M-LRH | E       | 3.3                     | ±20%                 | 0.055        | 2300                    | 2000                          | 45             |
| CSMS0418D-4R7M-LRH | H       | 4.7                     | ±20%                 | 0.070        | 2000                    | 1700                          | 35             |
| CSMS0418D-6R8M-LRH | I       | 6.8                     | ±20%                 | 0.098        | 1600                    | 1450                          | 30             |
| CSMS0418D-100M-LRH | K       | 10                      | ±20%                 | 0.150        | 1300                    | 1200                          | 25             |
| CSMS0418D-150M-LRH | M       | 15                      | ±20%                 | 0.210        | 1100                    | 850                           | 18             |
| CSMS0418D-220M-LRH | N       | 22                      | ±20%                 | 0.290        | 900                     | 720                           | 15             |
| CSMS0418D-330M-LRH | P       | 33                      | ±20%                 | 0.460        | 700                     | 550                           | 12             |
| CSMS0418D-470M-LRH | S       | 47                      | ±20%                 | 0.650        | 600                     | 440                           | 10             |
| CSMS0418D-680M-LRH | T       | 68                      | ±20%                 | 1.000        | 520                     | 320                           | 8.3            |
| CSMS0418D-101M-LRH | V       | 100                     | ±20%                 | 1.450        | 420                     | 280                           | 6.5            |
| CSMS0418D-151M-LRH | W       | 150                     | ±20%                 | 2.300        | 340                     | 220                           | 5.5            |
| CSMS0418D-221M-LRH | X       | 220                     | ±20%                 | 3.800        | 275                     | 170                           | 4.0            |

- Operating temperature Range: -25°C to +125°C (Including self-temperature rise)
- Storage Temp. Range: -40°C to +85°C
- Inductance measured using the HP4285A and Chroma1320 & 3302
- DCR measured using Chroma16502
- SRF measured using the HP4291B
- Saturation Current Idc1: The value of current causes a 30% inductance reduction from initial value.(at Ta: 20°C )
- Temperature rise current Idc2: The value of current causes a 40°C temperature rise.(at Ta: 20°C )
- Rated Current: Either Idc1 or Idc2 whichever is smaller
- MSL: Level 1

### CHARACTERISTIC CURVE

#### CSMS0418D Series

