

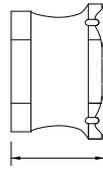
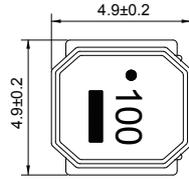
# CSMS0540D Series (SHIELDED)

## ■ SMD Wire Wound Power Inductors

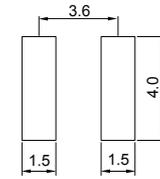
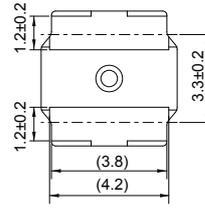
### MECHANICAL DIMENSIONS



CSMS0540D



1R5N~100M 4.1 Max.  
150M~470M 4.0 Max.



Recommended Patterns

unit: mm

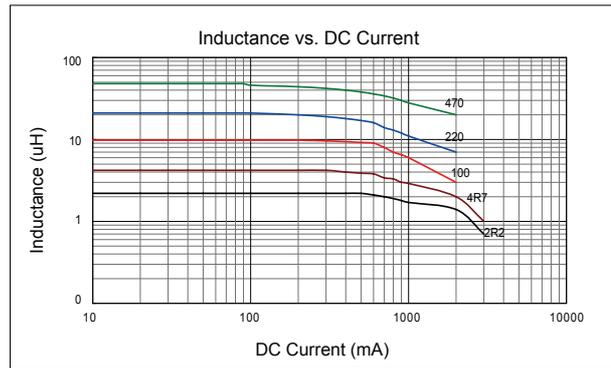
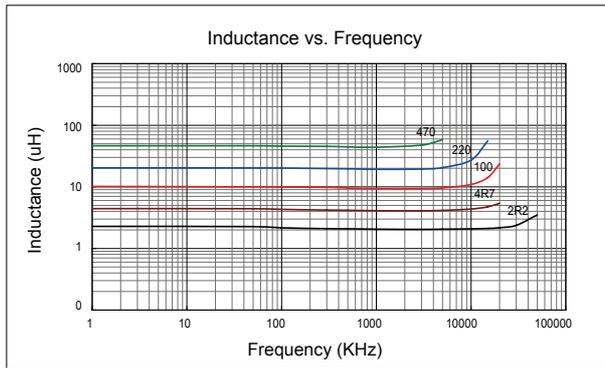
### ELECTRICAL SPECIFICATION

| Part Number        | Marking | Inductance @100KHz (uH) | Inductance Tolerance | DCR ±30% (Ω) | Rated Current (mA)      |                               | SRF (MHz) Min. |
|--------------------|---------|-------------------------|----------------------|--------------|-------------------------|-------------------------------|----------------|
|                    |         |                         |                      |              | Saturation Current Idc1 | Temperature Rise Current Idc2 |                |
| CSMS0540D-1R5N-LRH | 1R5     | 1.5                     | ±30%                 | 0.017        | 6400                    | 4500                          | 60             |
| CSMS0540D-2R2N-LRH | 2R2     | 2.2                     | ±30%                 | 0.022        | 5000                    | 3700                          | 42             |
| CSMS0540D-3R3N-LRH | 3R3     | 3.3                     | ±30%                 | 0.027        | 4000                    | 3300                          | 32             |
| CSMS0540D-4R7N-LRH | 4R7     | 4.7                     | ±30%                 | 0.029        | 3300                    | 3100                          | 28             |
| CSMS0540D-6R8M-LRH | 6R8     | 6.8                     | ±20%                 | 0.049        | 2800                    | 2400                          | 21             |
| CSMS0540D-100M-LRH | 100     | 10                      | ±20%                 | 0.056        | 2300                    | 2100                          | 18             |
| CSMS0540D-150M-LRH | 150     | 15                      | ±20%                 | 0.080        | 2000                    | 1800                          | 13             |
| CSMS0540D-220M-LRH | 220     | 22                      | ±20%                 | 0.126        | 1500                    | 1400                          | 9              |
| CSMS0540D-330M-LRH | 330     | 33                      | ±20%                 | 0.180        | 1300                    | 1200                          | 7              |
| CSMS0540D-470M-LRH | 470     | 47                      | ±20%                 | 0.310        | 1100                    | 900                           | 6              |

- 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

#### CSMS0540D Series



SMD

Leaded