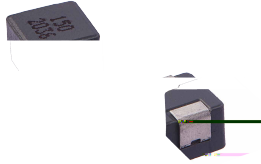




MD Series

SMD Low Profile High Current Molded Inductor

Size 7030



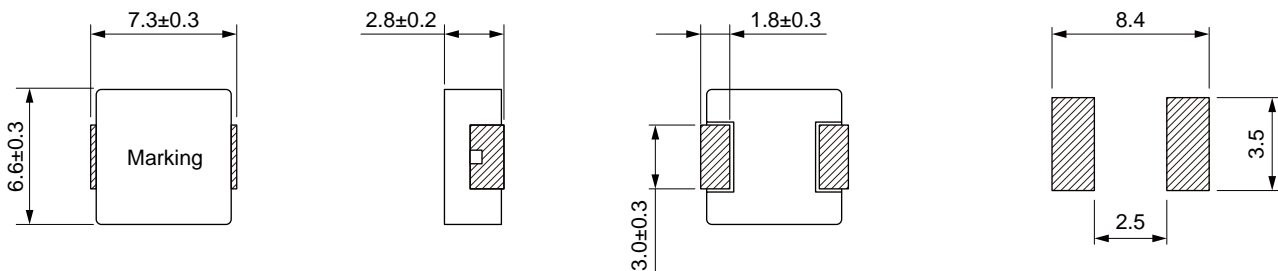
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 1000pcs

APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Electrical Properties:

| Part No | Inductance @ 100KHz/1V | Tolerance | Temperature Rise Current Typ. (A) | current Typ. (A) | DC Resistance Typ. | DC Resistance Max. |
|-------------|------------------------|-----------|-----------------------------------|------------------|--------------------|--------------------|
| MD7030-R10N | 0.10 | ±30% | 32.5 | 60.0 | 1.2 | 1.7 |
| MD7030-R22N | 0.22 | ±30% | 23.0 | 40.0 | 2.1 | 2.8 |
| MD7030-R33M | 0.33 | ±20% | 20.0 | 32.0 | 3.5 | 3.9 |
| MD7030-R36M | 0.36 | ±20% | 19.0 | 32.0 | 3.6 | 4.2 |
| MD7030-R47M | 0.47 | ±20% | 17.5 | 26.0 | 4.0 | 4.2 |
| MD7030-R56M | 0.56 | ±20% | 16.5 | 25.5 | 4.7 | 5.0 |
| MD7030-R68M | 0.68 | ±20% | 15.5 | 25.0 | 4.8 | 5.5 |
| MD7030-R82M | 0.82 | ±20% | 13.0 | 24.0 | 6.7 | 8.0 |
| MD7030-1R0M | 1.00 | ±20% | 11.0 | 22.0 | 8.3 | 10 |
| MD7030-1R5M | 1.50 | ±20% | 9.00 | 18.0 | 13 | 15 |
| MD7030-2R2M | 2.20 | ±20% | 8.00 | 14.0 | 18 | 20 |
| MD7030-3R3M | 3.30 | ±20% | 6.00 | 13.5 | 28 | 30 |
| MD7030-4R7M | 4.70 | ±20% | 5.50 | 10.0 | 37 | 40 |
| MD7030-5R6M | 5.60 | ±20% | 5.00 | 9.00 | 43 | 48 |
| MD7030-6R8M | 6.80 | ±20% | 4.50 | 8.00 | 54 | 60 |
| MD7030-8R2M | 8.20 | ±20% | 4.00 | 7.50 | 64 | 68 |



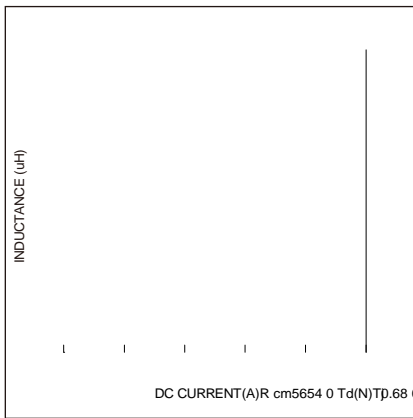
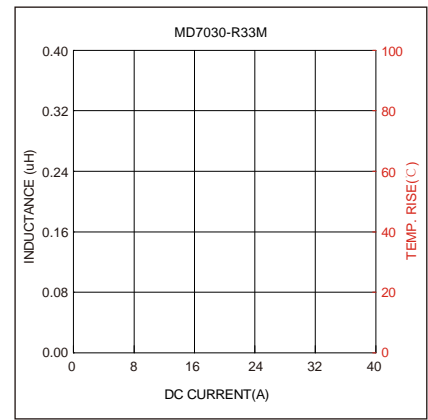
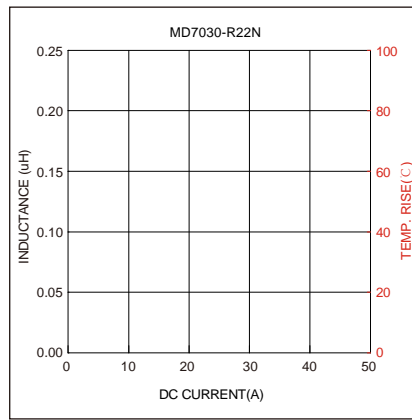
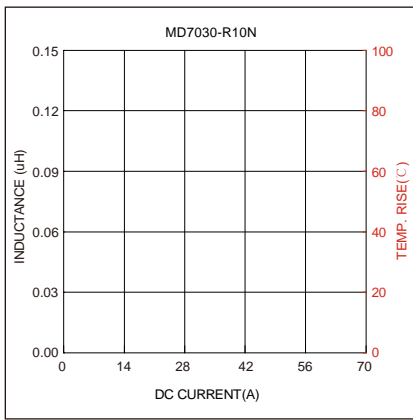
| Part No | Inductance @ 100KHz/1V | Tolerance | Temperature Rise Current Typ. (A) | current Typ. (A) | DC Resistance Typ. | DC Resistance Max. |
|-------------|------------------------|-----------|-----------------------------------|------------------|--------------------|--------------------|
| MD7030-100M | 10.0 | ±20% | 3.50 | 6.00 | 75 | 85 |
| MD7030-150M | 15.0 | ±20% | 3.00 | 4.00 | 107 | 123 |
| MD7030-220M | 22.0 | ±20% | 2.00 | 3.50 | 165 | 190 |

Operating temperature: -40°C ~ +125°C

Temperature rise current: The actual value of DC current when the temperature rise is $\Delta T = 40^\circ\text{C}$

Saturation Current will cause L to drop approximately 30%

Typical Electrical Characteristics:





Typical Electrical Characteristics:

