

MD Series

SMD Low Profile High Current Molded Inductor

Size 1360



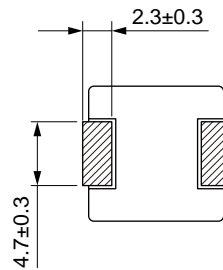
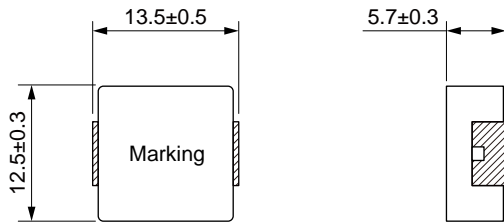
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 500pcs

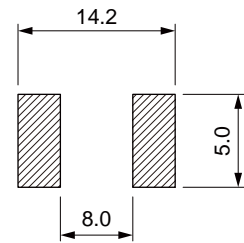
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

| | (μ H) | | | Saturation | (m Ω) | (m Ω) |
|-------------|------------|------------|------|------------|---------------|---------------|
| MD1360-R22N | 0.22 | $\pm 30\%$ | 55 | 120 | 0.48 | 0.65 |
| MD1360-R36M | 0.36 | $\pm 20\%$ | 42 | 80 | 0.72 | 0.90 |
| MD1360-R47M | 0.47 | $\pm 20\%$ | 38 | 64 | 0.92 | 1.30 |
| MD1360-R56M | 0.56 | $\pm 20\%$ | 35 | 60 | 1.15 | 1.50 |
| MD1360-R68M | 0.68 | $\pm 20\%$ | 33 | 57 | 1.33 | 1.70 |
| MD1360-R82M | 0.82 | $\pm 20\%$ | 31 | 55 | 1.50 | 1.90 |
| MD1360-1R0M | 1.00 | $\pm 20\%$ | 29 | 53 | 1.80 | 2.40 |
| MD1360-1R5M | 1.50 | $\pm 20\%$ | 26 | 50 | 2.70 | 3.20 |
| MD1360-2R2M | 2.20 | $\pm 20\%$ | 21 | 43 | 4.00 | 4.70 |
| MD1360-3R3M | 3.30 | $\pm 20\%$ | 17 | 35 | 5.80 | 7.10 |
| MD1360-4R7M | 4.70 | $\pm 20\%$ | 16 | 30 | 9.50 | 11.5 |
| MD1360-5R6M | 5.60 | $\pm 20\%$ | 15.5 | 28 | 10.8 | 12.6 |
| MD1360-6R8M | 6.80 | $\pm 20\%$ | 15 | 25 | 12.0 | 13.8 |
| MD1360-8R2M | 8.20 | $\pm 20\%$ | 11 | 23 | 13.6 | 16.0 |
| MD1360-100M | 10.0 | $\pm 20\%$ | 11 | 21 | 18.0 | 20.7 |
| MD1360-150M | 15.0 | $\pm 20\%$ | 9.0 | 16 | 25.0 | 29.0 |
| MD1360-180M | 18.0 | $\pm 20\%$ | 8.5 | 15 | 30.0 | 35.0 |

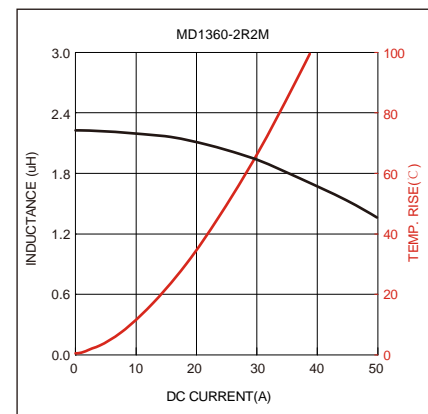
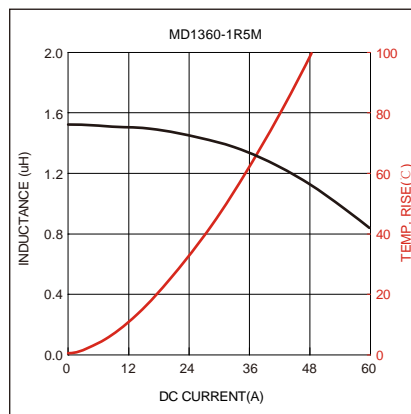
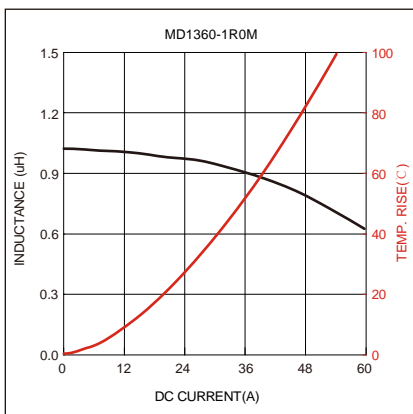
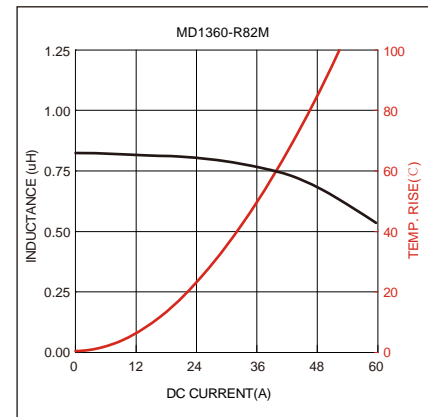
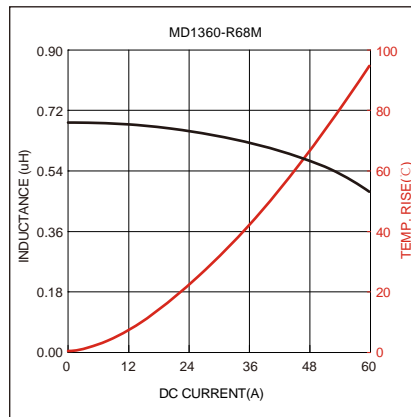
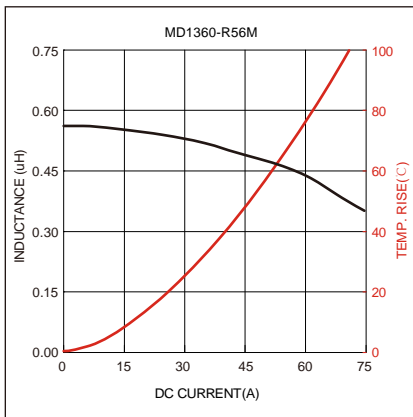
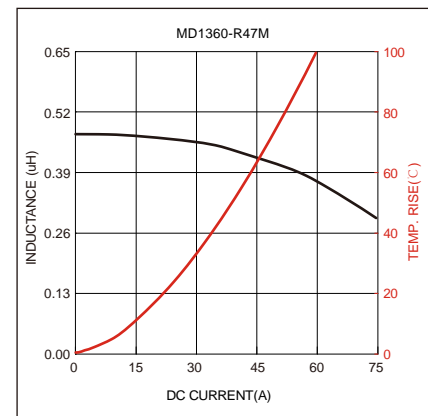
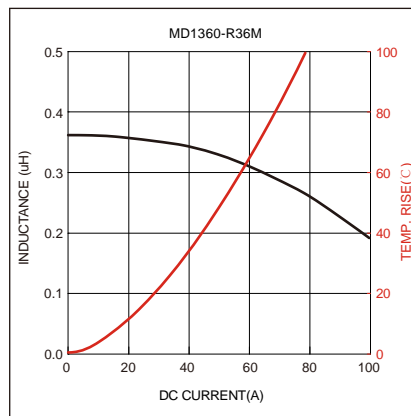
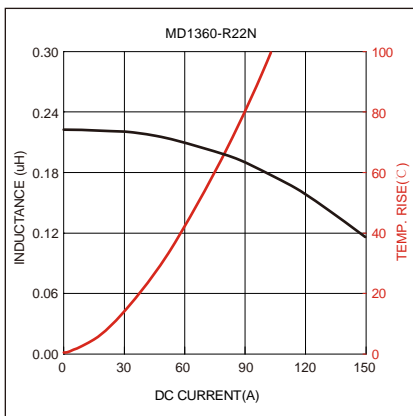
| | (μH) | | | Satura on | (m) | (m) |
|-------------|-------------------|------------|-----|-----------|------|------|
| MD1360-220M | 22.0 | $\pm 20\%$ | 8.0 | 14 | 34 | 39.5 |
| MD1360-330M | 33.0 | $\pm 20\%$ | 6.0 | 12 | 65 | 75.0 |
| MD1360-470M | 47.0 | $\pm 20\%$ | 5.5 | 11 | 80 | 90.0 |
| MD1360-680M | 68.0 | $\pm 20\%$ | 5.0 | 9 | 120 | 140 |

Opera ng temperature : $-40^{\circ}\text{C} \sim +125^{\circ}\text{C}$

Temperature rise current : The actual value of DC current when the temperature rise is $T40^{\circ}\text{C}$

Satura on Current will cause L to drop approximately 30%

Typical Electrical Characteristics:



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