

MD Series

SMD Low Profile High Current Molded Inductor

Size 7018



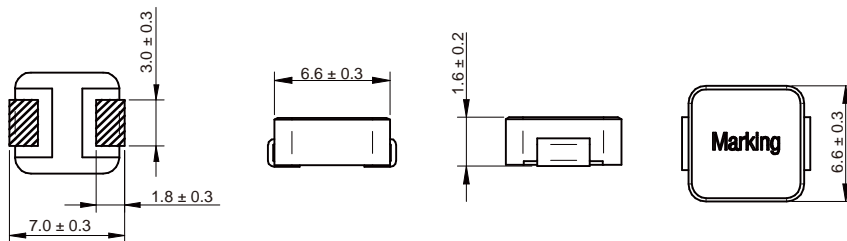
CHARACTERISTICS

- Molded type
- High saturation current due to CIP material
- Nature air gap and no acoustic noise
- Different sizes available
- Quantity: 2000pcs

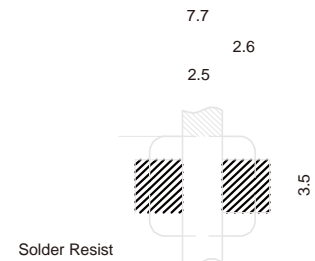
APPLICATION

- High current DC/DC converter
- LC filter

Dimensions: [mm]



Land Pattern: [mm]



Electrical Properties:

| Part No | Inductance (μH) | Tolerance | Temperature Rise Current Typ. (A) | Saturation current Typ. (A) | DCR Typ. (mΩ) | DCR Max. (mΩ) |
|-------------|-----------------|-----------|-----------------------------------|-----------------------------|---------------|---------------|
| MD7018-R10N | 0.10 | ±30% | 18 | 45 | 2.1 | 2.5 |
| MD7018-R15N | 0.15 | ±30% | 18 | 34 | 2.2 | 2.6 |
| MD7018-R18N | 0.18 | ±30% | 17 | 32 | 2.5 | 3.0 |
| MD7018-R22M | 0.22 | ±20% | 16 | 26 | 2.5 | 3.0 |
| MD7018-R33M | 0.33 | ±20% | 14 | 22 | 4.8 | 5.8 |
| MD7018-R47M | 0.47 | ±20% | 12 | 18 | 6.4 | 7.4 |
| MD7018-R56M | 0.56 | ±20% | 11 | 17.5 | 8.5 | 10 |
| MD7018-R68M | 0.68 | ±20% | 10 | 17 | 9.5 | 11 |
| MD7018-R82M | 0.82 | ±20% | 8.5 | 15.5 | 11.5 | 14 |
| MD7018-1R0M | 1.00 | ±20% | 7.0 | 14 | 14.5 | 17 |
| MD7018-1R2M | 1.20 | ±20% | 6.5 | 13.5 | 20 | 24 |
| MD7018-1R5M | 1.50 | ±20% | 6.0 | 13 | 21 | 25.2 |
| MD7018-2R2M | 2.20 | ±20% | 6.0 | 11 | 31 | 35 |
| MD7018-3R3M | 3.30 | ±20% | 5.0 | 9.0 | 40 | 46 |
| MD7018-4R7M | 4.70 | ±20% | 4.0 | 7.0 | 68 | 76 |
| MD7018-5R6M | 5.60 | ±20% | 3.5 | 6.0 | 78 | 86 |
| MD7018-6R8M | 6.80 | ±20% | 3.0 | 5.5 | 93 | 104 |



Typical Electrical Characteristics:

