

# MDSA Series

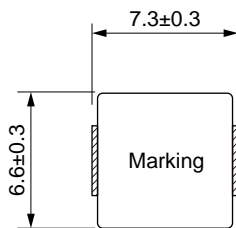
## SMD Low Profile High Current Molded Inductor

### Size 7050

#### FEATURES

- Shielded construction
- Capable of corresponding high frequency .
- Low loss realized with low DCR.
- High performance (Isat) realized by metal dust core.
- Ultra low buzz noise, due to composite construction.
- 100% Lead(Pb)-Free and RoHS compliant.
- AEC-Q200 qualified
- Operating temperature: -55 to +155 °C (including self-temperature rise)
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#### Dimensions: [mm]



4.8±0.2 Tolerance

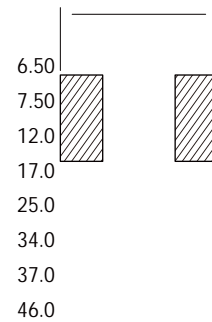
±20%	16.0
±20%	14.0
±20%	13.0
±20%	12.5
±20%	10.5
±20%	9.5
±20%	8.6
±20%	7.2

1.6±0.3

15.0	5.80
2.0	6.80
9.5	10.5
9.0	14.5
8.5	21.0
7.5	29.0
7.1	31.0
6.2	40.0

3.0±0.2

#### Land Pattern: [mm]



#### Electrical Properties:

Part Number	Inductance [mH]	DCR [mΩ]	Isat [A]	Q	Self-Resonant Frequency [MHz]
MDSA7050-1R0M	1.00				
MDSA7050-1R5M	1.50				
MDSA7050-2R2M	2.20				
MDSA7050-3R3M	3.30				
MDSA7050-4R7M	4.70				
MDSA7050-5R6M	5.60				
MDSA7050-6R8M	6.80				
MDSA7050-8R2M	8.20				

MDSA7050-100M	10.0	±20%	6.6	5.6	45.0	54.0
MDSA7050-150M	15.0	±20%	4.7	3.8	74.0	86.0
MDSA7050-220M	22.0	±20%	4.0	3.4	124	144
MDSA7050-330M	33.0	±20%	2.8	2.0	145	172
MDSA7050-470M	47.0	±20%	2.5	1.7	278	325

Saturation Current will cause L to drop approximately 30%

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

### Typical Electrical Characteristics:

