



### Features

- Magnetically shielded construction
- Large Current and Low DCR

### Package

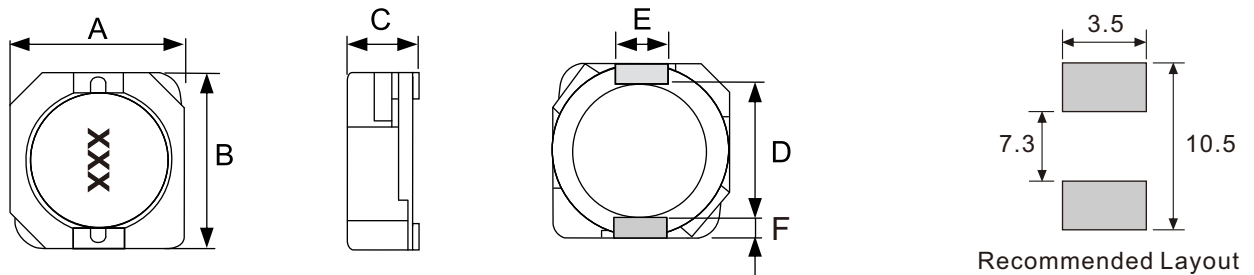
- MSRH103 - 1000 PCS/Reel

### General Specifications

- Storage temp range: -40°C to +125°C
- Operating temp range: -40°C to +125°C
- Moisture Sensitivity Level(MSL): 1



## ► Shape and Dimensions (Unit:mm)



| Type    | A (max) | B (max) | C (max) | D (±0.3) | E (Ref) | F (Ref) |
|---------|---------|---------|---------|----------|---------|---------|
| MSRH103 | 10.3    | 10.5    | 3.1     | 7.7      | 3.0     | 1.2     |

## ► Electrical Characteristics For MSRH103 Series

| Part Number  | Inductance [μH] | DCR(max) [Ω] | Isat(max) [A] | Irms(max) [A] |
|--------------|-----------------|--------------|---------------|---------------|
| MSRH103-100M | 10              | 0.058        | 2.70          | 2.75          |
| MSRH103-120M | 12              | 0.072        | 2.25          | 2.48          |
| MSRH103-150M | 15              | 0.087        | 2.22          | 2.24          |
| MSRH103-180M | 18              | 0.116        | 1.90          | 2.00          |
| MSRH103-220M | 22              | 0.145        | 1.78          | 1.80          |
| MSRH103-270M | 27              | 0.176        | 1.63          | 1.62          |
| MSRH103-330M | 33              | 0.213        | 1.46          | 1.46          |
| MSRH103-390M | 39              | 0.269        | 1.32          | 1.32          |
| MSRH103-470M | 47              | 0.299        | 1.18          | 1.30          |
| MSRH103-560M | 56              | 0.336        | 1.10          | 1.08          |
| MSRH103-680M | 68              | 0.451        | 1.04          | 1.00          |
| MSRH103-820M | 82              | 0.514        | 0.94          | 0.98          |
| MSRH103-101M | 100             | 0.700        | 0.84          | 0.92          |
| MSRH103-121M | 120             | 0.765        | 0.76          | 0.88          |
| MSRH103-151M | 150             | 0.876        | 0.70          | 0.73          |

- Inductance tested at 100kHz
- Heat Rating Current (I<sub>rms</sub>): Current that cause the temperature 40°C rise from 25°C
- Saturation Current (I<sub>sat</sub>): DC current at which the inductance drops 30% from its value without current