

### MTC100 Series

#### Features :

- Sector winding
- Ring core double choke with ferrite core
- The series used low loss core offer low cost and high saturation flux density.
- The inductors can be versatile combination by series or parallel connections.
- Tape and reel packaging 500pcs per reel

#### Description :

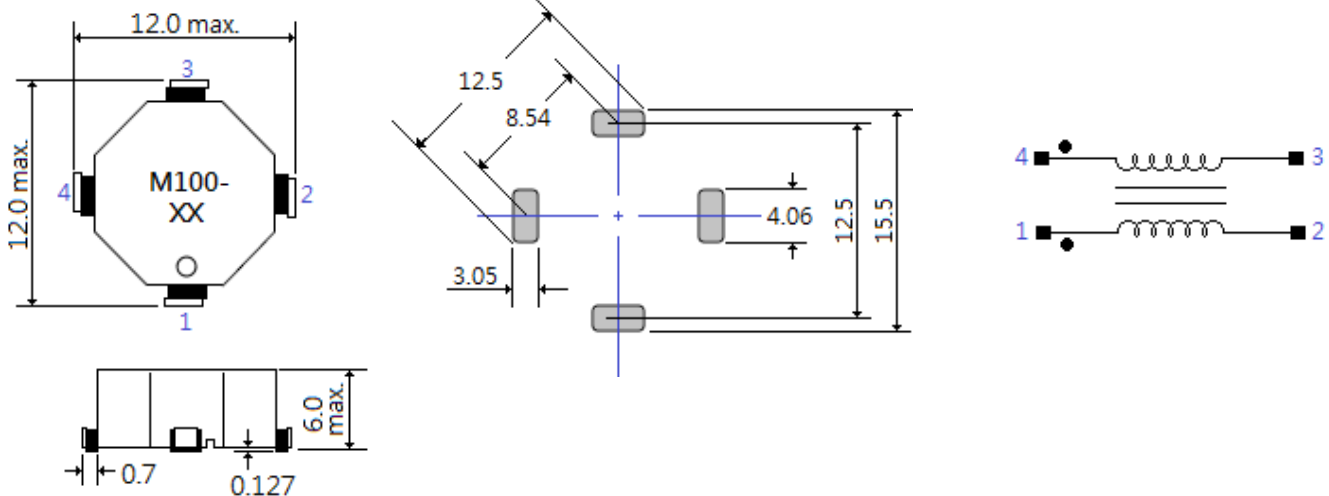
- Inductors that provide 300Vdc isolation
- Inductance range from 100uH to 1800uH , Current range up to 3.5 Amps
- Large impedance, Lower inductance loss

#### Applications :

- Noise suppression , Discrete output supplies , Power supplies ,
- Any electronic devise , EMI filters



#### Shapes And Dimensions : (Unit :mm)



#### Standard electrical specifications :

| Prat Number | Inductance<br>OCL (uH)+50-30%<br>100KHz 100mV | I rms (A)<br>( max. ) | DCR (mohm)<br>Each Winding | Leakage<br>(uH) typ. | CP (pF) |
|-------------|---|-----------------------|----------------------------|----------------------|---------|
| M100-S01    | 35.0  | 6.0                   | 2.54                       | 0.265                | 3.0     |
| M100-B01    | 100.0   | 3.5                   | 10                         | 0.87                 | 3.5     |
| M100-B02    | 175.0   | 3.0                   | 17                         | 1.3                  | 3.7     |
| M100-B03    | 250.0   | 2.8                   | 21                         | 2.0                  | 4.0     |
| M100-B04    | 300.0   | 2.4                   | 24                         | 2.2                  | 4.4     |
| M100-B05    | 420.0   | 2.0                   | 39                         | 3.1                  | 4.5     |
| M100-B06    | 485.0   | 1.70                  | 54                         | 3.5                  | 4.7     |
| M100-B07    | 630.0   | 1.45                  | 78                         | 4.2                  | 4.9     |
| M100-B08    | 780.0   | 1.20                  | 107                        | 5.1                  | 5.2     |
| M100-B09    | 950.0   | 1.05                  | 146                        | 6.2                  | 5.4     |
| M100-B10    | 1300.0  | 0.8                   | 220                        | 8.0                  | 5.6     |
| M100-B11    | 1500.0  | 0.75                  | 260                        | 8.8                  | 5.7     |
| M100-B12    | 1600.0  | 0.75                  | 300                        | 9.6                  | 5.8     |
| M100-B13    | 1800.0  | 0.55                  | 400                        | 11.8                 | 6.0     |

#### Definitions:

- OCL = Open Circuit Inductance
- DCR = Direct Current Resistance
- I rms = rms current for approx. a 40°C temperature rise at an ambient temperature of 85°C.

#### Environmental Data :

- temperature range -40°C ~ +125°C
- Operating ambient temperature range: -40°C to +85°C range is application specific.
- Infrared reflow temperature: +240°C for 30 seconds max.
- Climatic category (-40°C to +125°C , Humidity cat.C)

\*\*Customer's specifications are available\*\*

