# SER2012T SERIES

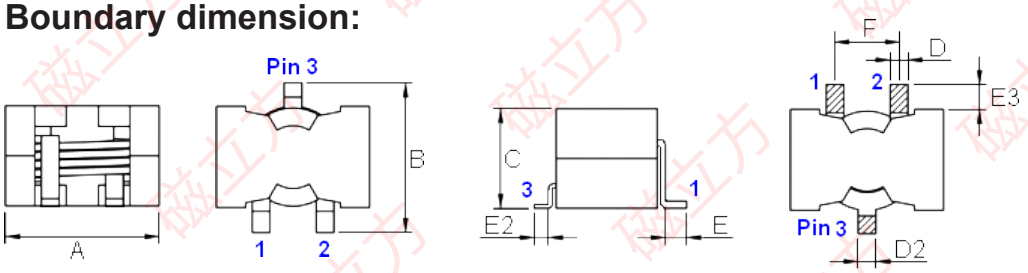
## Product description:

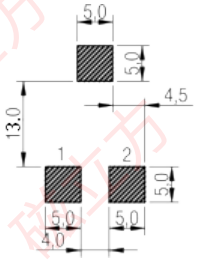
- Perfect for high current.
- Extremely low DCR.
- Low voltage power supply applications.
- High power DC power supply.
- Operating temperature: -25℃ ~125℃ .
- Placement form is SMD.


## Explanation of part numbers:

| SER | 2012 | T | - | R47 | M |
|---|---|---|---|---|---|
| Series Codes | Size Codes | Pins Type | | Inductance Codes | Tolerance |

## Boundary dimension:




PCB Layout

Unit:mm

| Part No. | A | B | C | D | D2 | E | E2 | E3 | F | G |
|---|---|---|---|---|---|---|---|---|---|---|
| SER2012T | 21.8 Max. | 22.5 Max. | 12.5 Max. | 2.5±0.2 | 2.5±0.2 | 3.0±0.5 | 2.0Ref. | 5.0±0.5 | 9.0±0.5 | 6.0±0.5 |
| | | | | | | | | | | |

## Electrical characteristics:

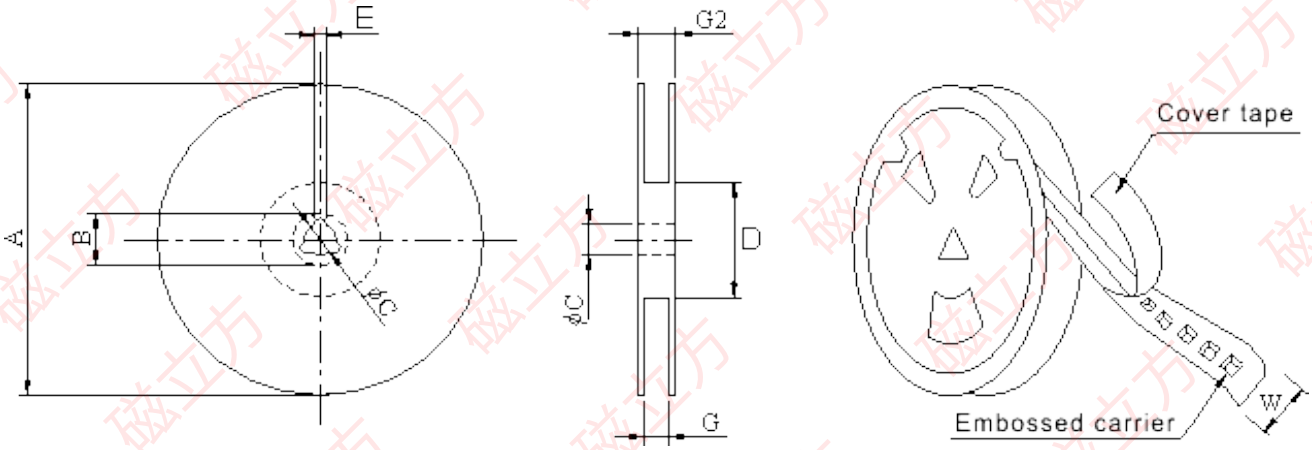
Test condition:at 25℃ 100KHz/0.1V

| PART NO. | Lo(0A) (μH)±20% | Irms(A) Type. | Isat(A) Type. | DCR(mΩ) Type. | DCR(mΩ) Max. |
|---|---|---|---|---|---|
| SER2012T-R47M | 0.47 | 45.0 | 75.0 | 0.45 | 0.55 |
| SER2012T-R82M | 0.82 | 45.0 | 70.0 | 0.45 | 0.55 |
| SER2012T-1R0M | 1.00 | 35.0 | 62.0 | 1.20 | 1.40 |
| SER2012T-1R5M | 1.50 | 35.0 | 60.0 | 1.20 | 1.40 |
| SER2012T-2R2M | 2.20 | 28.0 | 50.0 | 1.80 | 2.20 |
| SER2012T-3R3M | 3.30 | 28.0 | 35.0 | 1.80 | 2.20 |
| SER2012T-4R7M | 4.70 | 28.0 | 24.0 | 1.80 | 2.20 |
| SER2012T-6R8M | 6.80 | 28.0 | 18.0 | 1.80 | 2.20 |
| SER2012T-8R2M | 8.20 | 28.0 | 13.0 | 1.80 | 2.20 |
| SER2012T-100M | 10.00 | 16.0 | 12.0 | 4.80 | 5.80 |
| SER2012T-150M | 15.00 | 16.0 | 10.0 | 4.80 | 5.80 |
| SER2012T-220M | 22.00 | 14.0 | 9.0 | 6.80 | 8.20 |
| SER2012T-330M | 33.00 | 14.0 | 7.0 | 6.80 | 8.20 |
| | | | | | |

**NOTE:**

- All test data is referenced to 25℃ ambient.
- Temperature rise current the actual value of DC current when the temperature rise is ΔT40 (Ta=25 ).
- Saturation current the actual value of DC current when the inductance decrease 30% of its initial value.
- Special remind Circuit design, component placement, PCB size and thickness, cooling system and etc. all will affect the product temperature. Please verify the product temperature in the final application.

## Packing Information:

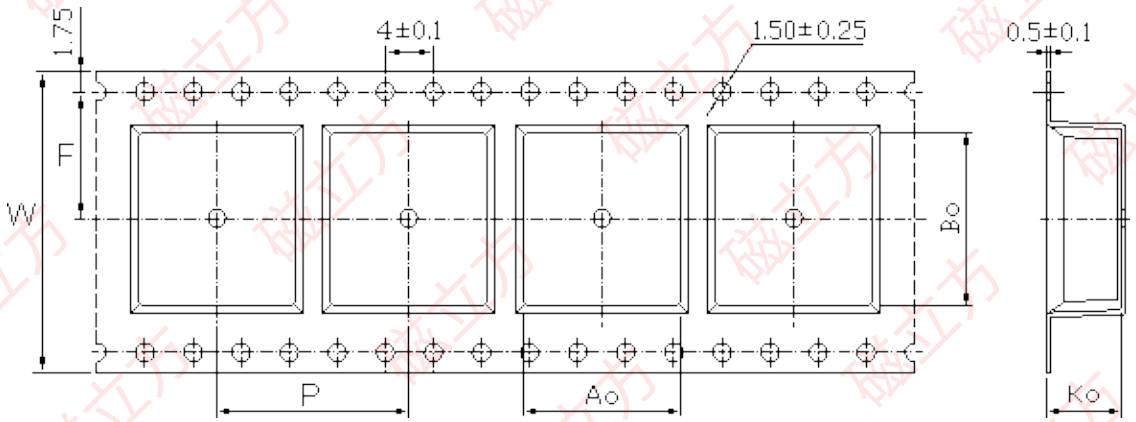



(unit: mm)

| Series | TYPE | A | B | C | D | E | G | G2 |
|---|---|---|---|---|---|---|---|---|
| SER2012T | 330*44mm | 330±1 | 20±0.8 | 13±0.5 | 100±1 | 2.0±0.5 | 44.5±0.5 | 48.5±0.5 |
| | | | | | | | | |


Tel:0755-23018051 Fax:0755-22140304 E-mail:Sales@mct8.com Http:www.mct8.com

## Packing Information:




(unit: mm)

| Series | QTY (Pcs/Reel) | Ao | Bo | Ko | W | P |
|---|---|---|---|---|---|---|
| SER2012T | 120 | 22.9±0.1 | 22.0±0.1 | 12.7±0.1 | 44 | 32 |