



OWI312MF TYPE

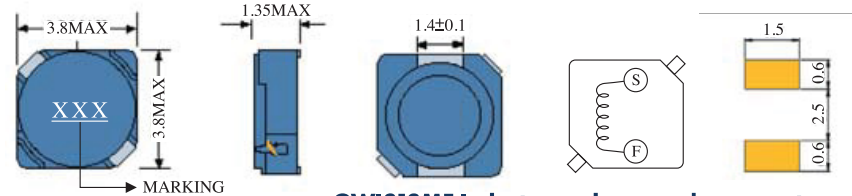


FEATURES

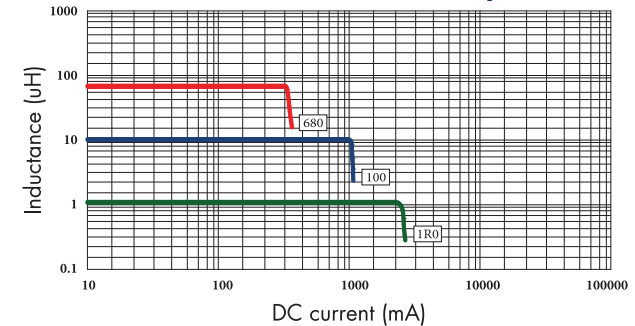
- 1. Various high power inductors are superior to be high saturation for surface mounting.

APPLICATIONS

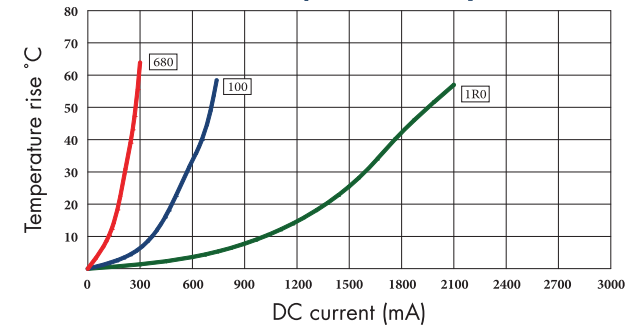
- 1. Power supply for VTR, OA equipment.
- 2. LCD television set, notebook PC.
- 3. Portable communication, equipments.
- 4. DC/DC converters, etc.



OWI312MF Inductance decrease by current



OWI312MF Temperature rise by current



ELECTRICAL CHARACTERISTICS FOR OWI312MF SERIES

| Part Number | Inductance (uH) ⁽¹⁾ | Test Frequency | DC Resistance (Ω MAX) ⁽²⁾ | Saturation Current (A) ⁽³⁾ | Temperature Current (A) ⁽⁴⁾ |
|--------------|--------------------------------|----------------|--------------------------------------|---------------------------------------|--|
| OWI312MF-1R0 | 1.0 | 100KHZ | 87m | 3.00 | 1.60 |
| OWI312MF-1R5 | 1.5 | 100KHZ | 104m | 2.50 | 1.50 |
| OWI312MF-2R2 | 2.2 | 100KHZ | 157m | 2.00 | 1.20 |
| OWI312MF-3R3 | 3.3 | 100KHZ | 210m | 1.80 | 0.98 |
| OWI312MF-4R7 | 4.7 | 100KHZ | 318m | 1.48 | 0.84 |
| OWI312MF-5R6 | 5.6 | 100KHZ | 388m | 1.22 | 0.78 |
| OWI312MF-6R8 | 6.8 | 100KHZ | 430m | 1.10 | 0.70 |
| OWI312MF-100 | 10 | 100KHZ | 673m | 0.97 | 0.58 |
| OWI312MF-120 | 12 | 100KHZ | 792m | 0.85 | 0.50 |
| OWI312MF-150 | 15 | 100KHZ | 900m | 0.79 | 0.48 |
| OWI312MF-180 | 18 | 100KHZ | 1.16 | 0.68 | 0.44 |
| OWI312MF-220 | 22 | 100KHZ | 1.40 | 0.64 | 0.40 |
| OWI312MF-270 | 27 | 100KHZ | 1.65 | 0.60 | 0.38 |
| OWI312MF-330 | 33 | 100KHZ | 2.40 | 0.57 | 0.33 |
| OWI312MF-390 | 39 | 100KHZ | 2.85 | 0.50 | 0.27 |
| OWI312MF-470 | 47 | 100KHZ | 3.00 | 0.44 | 0.25 |
| OWI312MF-560 | 56 | 100KHZ | 3.60 | 0.42 | 0.23 |
| OWI312MF-680 | 68 | 100KHZ | 4.10 | 0.40 | 0.21 |

1. Inductance tested at 0.25V. Tolerance of inductance:
1.0uH: ±30%(N) 1.5uH~68uH: ±20%(M)
2. DCR test temp. limits 25°C.
3. This indicates the value of current when the inductance is 10% lower than its initial value at D.C. superposition or D.C. current.
4. To load current onto the components under normal ambience, which cause the temp. change as Δt=40°C or more lower current.
5. Please refer saturated current or the minimum temperature current as standard.