

Sample Kit 2019

SMT Power Inductors

B82477D6





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SMT Power Inductors - Dual Inductor 12.5 x 12.5 x 10.5 (mm)

| L _{1,2} | μΗ | 3.9 | 10 | 15 | 22 | 47.0 |
|-----------------------|--------|-----------|-----------|-----------|-----------|-----------|
| I _R | Α | 7.05 | 5.65 | 4.92 | 3.85 | 2.8 |
| I _{sat, typ} | Α | 16.1 | 9.9 | 8.7 | 7.2 | 4.7 |
| R _{DC, typ} | mΩ | 13.9 | 22.5 | 29.6 | 45 | 81.8 |
| K_{typ} | % | 97 | 98 | 99 | 99 | 99 |
| Ordering code | B82477 | D6392M603 | D6103M603 | D6153M603 | D6223M603 | D6473M603 |

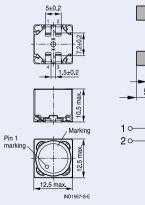
Features

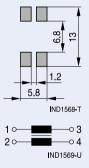
- Special winding technology for tight coupling of the two windings (coupling factor K from 97% to 99%)
- · Magnetically shielded
- Winding welded to terminals
- Base plate construction for high mechanical robustness
- Temperature range up to +150 °C
- Qualification to AEC-Q200

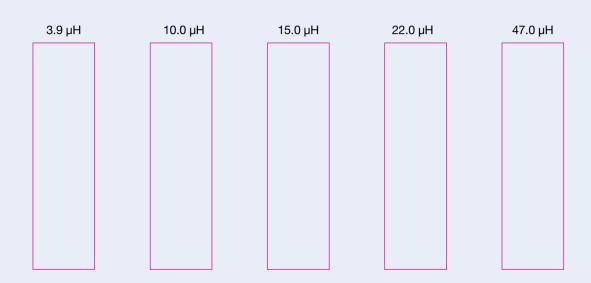
Inductance is per winding. When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value. R_{DC} is for each winding. When leads are connected in parallel, R_{DC} = $R_1 \times R_2 / R_1 + R_2 \times R_1$. When leads are connected in parallel, R_{DC} is half the value. When leads are connected in series, R_{DC} is twice the value. $R_1 \times R_2 \times R_1 \times R_2 \times R_2 \times R_3 \times R_3$

Applications

- · Common mode choke
- DC/DC converter, especially for SEPIC topology
- 1:1 transformer







Important information: It is incumbent on the customer to check and decide whether a product is suitable for use in a particular application. Our products are described in detail in our data sheets. Our Important notes and the product-specific Cautions and warnings must be observed. All relevant information is available through our sales offices.