

Sample Kit 2020

SMT Power Inductors B82477D4*M900



www.tdk-electronics.tdk.com

SMT Power Inductors – Dual Inductor 12.5 x 12.5 x 8.5 (mm)						
L _{ind} ±20%	μH	4.7	10	15	22	47
I _R	А	5.24	4.54	3.7	3.11	2.4
Isat. typ	А	10	6.5	5.5	4.5	3.3
R _{DC. typ}	mΩ	23.2	35.5	47.5	67	109
K _{typ}	%	97	99	99	99	99
Ordering code	B82477	D4472M900	D4103M900	D4153M900	D4223M900	D4473M900

Features

- Special winding technology for tight coupling of the two windings (coupling factor K = 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. Roc is for each winding. When leads are connected in parallel, Roc = R₁ x R₂ / R₁ + R₂. When leads are connected in parallel, Roc is half the value. When leads are connected in series, Roc is twice the value. I_{bar} is the current flowing through one winding. When leads are connected in parallel, I_{ba} is the same. When leads are connected in series, I_{ba} is the same. When leads are connected in series, I_{ba} is the total current through both windings. I_b and b_c can be calculated like this: $|A + Z = |A^2|$

Applications

- DC/DC converter, especially for SEPIC topology
- Buck converter with auxililary output
- Common mode choke
- 1:1 transformer





IND1569-U



IND1631-K-E



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.