

## Sample Kit 2021

# **SMT** Power Inductors

## B82464D6\*M000 Dual Inductors



www.tdk-electronics.tdk.com

### SMT Power Inductors – Dual Inductor 10.4 x 10.4 x 6.3 (mm)

L <sub>ind</sub> ±20%	uН	2.2	4.7	10	15	22	47
Lind ±2070	μп	2.2	4.7	10	15	22	47
I <sub>R</sub>	А	6.17	5.08	3.71	3.09	2.66	1.7
Isat. typ	А	13.85	9.9	6.15	5.2	4.35	2.95
R <sub>DC. typ</sub>	mΩ	18	27	52	76	105	238
K <sub>typ</sub>	%	95	97	99	99	99	99
Ordering code	B82464D6	222M000	472M000	103M000	153M000	223M000	473M000

#### Features

- Special winding technology for tight coupling of the two windings (coupling factor K = 95% 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

#### Applications

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



IND1704-D-E

Pin 1 marking



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.  $R_{\rm oc}$  is for each winding. When leads are connected in parallel,  $R_{\rm oc}=R_1\times R_2/R_1+R_2$ . When leads are connected in series,  $R_{\rm oc}=R_1+R_2$ .  $I_{\rm sat}$  is the current flowing through one winding. When leads are connected in parallel,  $I_{\rm sat}$  is the same. When leads are connected in series,  $I_{\rm sat}$  is the same. When leads are connected in series,  $I_{\rm sat}$  is that the value  $I_{\rm rs}$  is the total current through both windings.  $I_1$  and  $I_2$  can be calculated like this:  $I_1^2 + I_2^2 = I_1^2$ 

© TDK Electronics AG · Edition 2021 · Ordering No. B82464X6 · SO 0621



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.