

## Sample Kit 2021

# **SMT** Power Inductors

### B82472D6\*M000 Dual Inductors



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#### SMT Power Inductors – Dual Inductor 7.3 x 7.3 x 4.8 (mm)

L <sub>ind</sub> ±20%	μH	2.2	4.7	10	15	22	47
I <sub>R</sub>	А	4.3	3.3	2.3	1.85	1.65	1.1
Isat. typ	А	5.6	4.1	2.7	2.1	1.8	1.1
R <sub>DC. typ</sub>	mΩ	30	47	95	144	177	400
K <sub>typ</sub>	%	97	98	98	99	99	99
Ordering code	B82472D6	222M000	472M000	103M000	153M000	223M000	473M000

#### 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 = R<sub>1</sub> x R<sub>2</sub> / R<sub>1</sub> + R<sub>2</sub>. When leads are connected in parallel, Roc = R<sub>1</sub> x R<sub>2</sub> / R<sub>1</sub> + R<sub>2</sub>. When leads are connected in parallel, Roc is half the value. When leads are connected in series, Roc is twice the value. I<sub>ket</sub> is the current flowing through one winding. When leads are connected in parallel, I<sub>ket</sub> is the same. When leads are connected in series, I<sub>ket</sub> is the total current through both windings. I<sub>1</sub> and b<sub>1</sub> can be calculated like this: |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 = |1 + 2 =

#### Applications

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



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