

Sample Kit 2021

# SMT Power Inductors

B82472D6\*M000 Dual Inductors



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

$L_{ind} \pm 20\%$	$\mu\text{H}$	2.2	4.7	10	15	22	47
$I_R$	A	4.3	3.3	2.3	1.85	1.65	1.1
$I_{sat. typ}$	A	5.6	4.1	2.7	2.1	1.8	1.1
$R_{DC. typ}$	$m\Omega$	30	47	95	144	177	400
$K_{typ}$	%	97	98	98	99	99	99
Ordering code	B82472D6	222M000	472M000	103M000	153M000	223M000	473M000

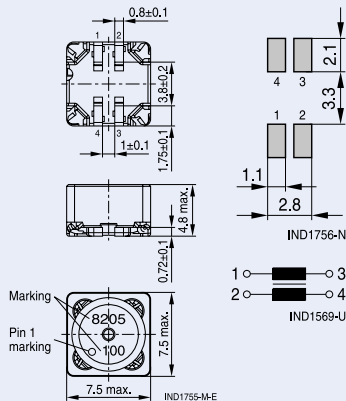
### Features

- 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  $+150\text{ }^\circ\text{C}$
- Qualification to AEC-Q200

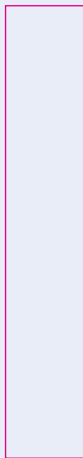
**Inductance is per winding.** When leads are connected in parallel, inductance is the same value. When leads are connected in series, inductance is four times the value.  $R_{DC}$  is for each winding. When leads are connected in parallel,  $R_{DC} = R_1 \times R_2 / R_1 + R_2$ . When leads are connected in series,  $R_{DC}$  is half the value. When leads are connected in series,  $R_{DC}$  is twice the value.  $I_{sat}$  is the current flowing through one winding. When leads are connected in parallel,  $I_{sat}$  is the same. When leads are connected in series,  $I_{sat}$  is half the value.  $I_R$  is the total current through both windings.  $I_1$  and  $I_2$  can be calculated like this:  $I_1^2 + I_2^2 = I_R^2$

### Applications

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



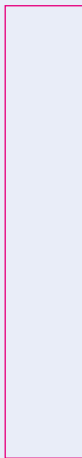
2.2  $\mu\text{H}$



4.7  $\mu\text{H}$



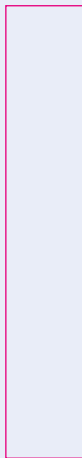
10  $\mu\text{H}$



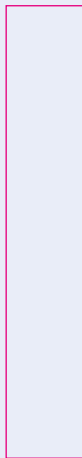
15  $\mu\text{H}$



22  $\mu\text{H}$



47  $\mu\text{H}$



**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.

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