

EPCOS Sample Kit 2014

# Chip Inductors

SIMID 0603-C, B82496X001



## SMT Inductors – SIMID 0603-C

|                               |           |            |            |            |            |            |            |            |            |
|-------------------------------|-----------|------------|------------|------------|------------|------------|------------|------------|------------|
| <b>L<sub>R</sub></b>          | <b>nH</b> | <b>1.5</b> | <b>1.8</b> | <b>2.2</b> | <b>2.7</b> | <b>3.3</b> | <b>3.9</b> | <b>4.7</b> | <b>5.6</b> |
| Q <sub>typ</sub> (at 800 MHz) |           | 50         | 50         | 50         | 40         | 40         | 40         | 40         | 40         |
| f <sub>L</sub>                | MHz       | 100        | 100        | 100        | 100        | 100        | 100        | 100        | 100        |
| I <sub>R</sub>                | mA        | 1500       | 1500       | 1500       | 1400       | 1200       | 1100       | 800        | 700        |
| R <sub>max</sub>              | Ω         | 0.03       | 0.033      | 0.035      | 0.04       | 0.06       | 0.065      | 0.10       | 0.15       |
| f <sub>res, min</sub>         | MHz       | 13000      | 12000      | 10000      | 10000      | 9000       | 8000       | 7000       | 6000       |
| Ord. code                     | B82496    | C3159A     | C3189A     | C3229A     | C3279A     | C3339A     | C3399J     | C3479J     | C3569J     |
| <b>L<sub>R</sub></b>          | <b>nH</b> | <b>6.8</b> | <b>8.2</b> | <b>10</b>  | <b>12</b>  | <b>15</b>  | <b>18</b>  | <b>22</b>  | <b>27</b>  |
| Q <sub>typ</sub> (at 800 MHz) |           | 40         | 40         | 40         | 40         | 40         | 40         | 40         | 35         |
| f <sub>L</sub>                | MHz       | 100        | 100        | 100        | 100        | 100        | 100        | 100        | 100        |
| I <sub>R</sub>                | mA        | 700        | 650        | 600        | 450        | 420        | 400        | 380        | 360        |
| R <sub>max</sub>              | Ω         | 0.15       | 0.18       | 0.20       | 0.35       | 0.40       | 0.45       | 0.50       | 0.55       |
| f <sub>res, min</sub>         | MHz       | 6000       | 6000       | 5000       | 5000       | 4500       | 4000       | 4000       | 3000       |
| Ord. code                     | B82496    | C3689J     | C3829J     | C3100J     | C3120J     | C3150J     | C3180J     | C3220J     | C3270J     |
| <b>L<sub>R</sub></b>          | <b>nH</b> | <b>33</b>  | <b>39</b>  | <b>47</b>  | <b>56</b>  | <b>68</b>  | <b>82</b>  | <b>100</b> | <b>220</b> |
| Q <sub>typ</sub> (at 800 MHz) |           | 35         | 35         | 35         | 35         | 35         | 35         | 30         | 25         |
| f <sub>L</sub>                | MHz       | 100        | 100        | 100        | 100        | 100        | 100        | 100        | 25.2       |
| I <sub>R</sub>                | mA        | 350        | 300        | 270        | 250        | 230        | 220        | 200        | 110        |
| R <sub>max</sub>              | Ω         | 0.60       | 0.80       | 0.95       | 1.2        | 1.3        | 1.5        | 1.8        | 7.0        |
| f <sub>res, min</sub>         | MHz       | 3000       | 2500       | 2500       | 2500       | 2000       | 2000       | 1800       | 1300       |
| Ord. code                     | B82496    | C3330J     | C3390J     | C3470J     | C3560J     | C3680J     | C3820J     | C3101J     | C3221J     |

SIMID® is a registered trademark. Tolerance: A  $\Delta$   $\pm$ 0.3 nH, J  $\Delta$   $\pm$ 5%. Additional values upon request.



1.5 nH



1.8 nH



2.2 nH



2.7 nH



3.3 nH



3.9 nH



4.7 nH



5.6 nH



6.8 nH



8.2 nH



10 nH



12 nH



15 nH



18 nH



22 nH



27 nH



33 nH



39 nH



47 nH



56 nH



68 nH



82 nH



100 nH



220 nH

**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.