



# DESIGN KIT

## WE-CBA – SMD EMI Suppression Ferrite Bead



### SIZE:

0402 / 0603 / 0805 / 1206 / 1806

### TECHNICAL DATA:

$Z @ 100 \text{ MHz}$ : 20 ~ 2200  $\Omega$

$R_{DC}$ : 0.008 ~ 1.0  $\Omega$

$I_R$ : 10 ~ 5000 mA

Order Code **782 792**  
Version 1.1

# WE-CBA SMD EMI Suppression Ferrite Bead



|      |  |  |  |   |  |   |
|------|--|--|--|---|--|---|
| 0402 | <b>782 422 101</b> ■   | <b>782 422 221</b> ■   | <b>782 422 331</b> ■   | <b>782 422 511</b> ■  | <b>782 422 601</b> ■   | <b>782 422 102</b> ■  |
|      | Z @ 100 MHz: 10 Ω<br>R <sub>bc</sub> : 0.30 Ω<br>I <sub>tr</sub> : 500 mA    | Z @ 100 MHz: 220 Ω<br>R <sub>bc</sub> : 0.30 Ω<br>I <sub>tr</sub> : 400 mA   | Z @ 100 MHz: 330 Ω<br>R <sub>bc</sub> : 0.50 Ω<br>I <sub>tr</sub> : 300 mA   | Z @ 100 MHz: 510 Ω<br>R <sub>bc</sub> : 0.80 Ω<br>I <sub>tr</sub> : 200 mA    | Z @ 100 MHz: 600 Ω<br>R <sub>bc</sub> : 0.80 Ω<br>I <sub>tr</sub> : 200 mA   | Z @ 100 MHz: 1000 Ω<br>R <sub>bc</sub> : 1.0 Ω<br>I <sub>tr</sub> : 200 mA  |
| 0603 | <b>782 423 100</b> ■   | <b>782 423 700</b> ■   | <b>782 631 101</b> ■   | <b>782 631 331</b> ■  | <b>782 631 182</b> ■   | <b>782 632 620</b> ■  |
|      | Z @ 100 MHz: 10 Ω<br>R <sub>bc</sub> : 0.03 Ω<br>I <sub>tr</sub> : 1500 mA   | Z @ 100 MHz: 70 Ω<br>R <sub>bc</sub> : 0.09 Ω<br>I <sub>tr</sub> : 1000 mA   | Z @ 100 MHz: 100 Ω<br>R <sub>bc</sub> : 0.20 Ω<br>I <sub>tr</sub> : 500 mA   | Z @ 100 MHz: 330 Ω<br>R <sub>bc</sub> : 0.25 Ω<br>I <sub>tr</sub> : 400 mA    | Z @ 100 MHz: 1800 Ω<br>R <sub>bc</sub> : 0.75 Ω<br>I <sub>tr</sub> : 100 mA  | Z @ 100 MHz: 62 Ω<br>R <sub>bc</sub> : 0.15 Ω<br>I <sub>tr</sub> : 500 mA   |
| 0603 | <b>782 632 121</b> ■   | <b>782 632 181</b> ■   | <b>782 632 511</b> ■   | <b>782 632 102</b> ■  | <b>782 633 620</b> ■   | <b>782 633 601</b> ■  |
|      | Z @ 100 MHz: 120 Ω<br>R <sub>bc</sub> : 0.20 Ω<br>I <sub>tr</sub> : 500 mA   | Z @ 100 MHz: 180 Ω<br>R <sub>bc</sub> : 0.20 Ω<br>I <sub>tr</sub> : 500 mA   | Z @ 100 MHz: 510 Ω<br>R <sub>bc</sub> : 0.35 Ω<br>I <sub>tr</sub> : 300 mA   | Z @ 100 MHz: 1000 Ω<br>R <sub>bc</sub> : 0.50 Ω<br>I <sub>tr</sub> : 200 mA   | Z @ 100 MHz: 62 Ω<br>R <sub>bc</sub> : 0.04 Ω<br>I <sub>tr</sub> : 2500 mA   | Z @ 100 MHz: 600 Ω<br>R <sub>bc</sub> : 0.20 Ω<br>I <sub>tr</sub> : 1000 mA |
| 0805 | <b>782 851 102</b> ■   | <b>782 851 202</b> ■   | <b>782 853 200</b> ■   | <b>782 853 270</b> ■  | <b>782 853 680</b> ■   | <b>782 853 910</b> ■  |
|      | Z @ 100 MHz: 1000 Ω<br>R <sub>bc</sub> : 0.350 Ω<br>I <sub>tr</sub> : 300 mA | Z @ 100 MHz: 2200 Ω<br>R <sub>bc</sub> : 0.450 Ω<br>I <sub>tr</sub> : 200 mA | Z @ 100 MHz: 20 Ω<br>R <sub>bc</sub> : 0.008 Ω<br>I <sub>tr</sub> : 5000 mA  | Z @ 100 MHz: 27 Ω<br>R <sub>bc</sub> : 0.015 Ω<br>I <sub>tr</sub> : 4000 mA   | Z @ 100 MHz: 68 Ω<br>R <sub>bc</sub> : 0.025 Ω<br>I <sub>tr</sub> : 3000 mA  | Z @ 100 MHz: 91 Ω<br>R <sub>bc</sub> : 0.060 Ω<br>I <sub>tr</sub> : 2000 mA |
| 0805 | <b>782 853 121</b> ■   | <b>782 853 221</b> ■   | <b>782 853 561</b> ■   | <b>782 853 112</b> ■  | <b>782 853 152</b> ■   |   |
|      | Z @ 100 MHz: 120 Ω<br>R <sub>bc</sub> : 0.035 Ω<br>I <sub>tr</sub> : 2500 mA | Z @ 100 MHz: 220 Ω<br>R <sub>bc</sub> : 0.050 Ω<br>I <sub>tr</sub> : 1500 mA | Z @ 100 MHz: 560 Ω<br>R <sub>bc</sub> : 0.100 Ω<br>I <sub>tr</sub> : 1500 mA | Z @ 100 MHz: 1100 Ω<br>R <sub>bc</sub> : 0.300 Ω<br>I <sub>tr</sub> : 800 mA  | Z @ 100 MHz: 1500 Ω<br>R <sub>bc</sub> : 0.350 Ω<br>I <sub>tr</sub> : 700 mA |   |
| 1206 | <b>782 762 301</b> ■   | <b>782 763 820</b> ■   | <b>782 763 621</b> ■   | <b>782 763 102</b> ■  | <b>782 963 560</b> ■   | <b>782 963 820</b> ■  |
|      | Z @ 100 MHz: 300 Ω<br>R <sub>bc</sub> : 0.100 Ω<br>I <sub>tr</sub> : 500 mA  | Z @ 100 MHz: 82 Ω<br>R <sub>bc</sub> : 0.025 Ω<br>I <sub>tr</sub> : 3000 mA  | Z @ 100 MHz: 620 Ω<br>R <sub>bc</sub> : 0.100 Ω<br>I <sub>tr</sub> : 1500 mA | Z @ 100 MHz: 1000 Ω<br>R <sub>bc</sub> : 0.300 Ω<br>I <sub>tr</sub> : 1000 mA | Z @ 100 MHz: 56 Ω<br>R <sub>bc</sub> : 0.008 Ω<br>I <sub>tr</sub> : 5000 mA  | Z @ 100 MHz: 82 Ω<br>R <sub>bc</sub> : 0.020 Ω<br>I <sub>tr</sub> : 3500 mA |

**Important information:** Würth Elektronik's design kits contain reference components. These components correspond with the current product development status on the day of supply. Exchange of the reference components to components with up-to-date product development status is not carried out automatically. No liability is taken for the use of these reference components. Therefore, please request new samples prior to releases for series production and product release.

Please check datasheets on [www.we-online.com](http://www.we-online.com) for specifications.  
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- High Speed
- Wide Band
- High Current