

# DESIGN KIT

## WE-PD2 SMD Power Inductor

**SIZE:**

7850 / 1045

**TECHNICAL DATA:**

|             |                      |
|-------------|----------------------|
| L:          | 10 ~ 820 $\mu$ H     |
| $R_{DC}$ :  | 28 ~ 1420 m $\Omega$ |
| $I_R$ :     | 0.32 ~ 2.98 A        |
| $I_{sat}$ : | 0.38 ~ 3.24 A        |

**Order Code 744 775****Version 1.0**

# WE-PD2

## SMD Power Inductor



|      |                                                                                                                                  |                                                                                                                                  |                                                                                                                                  |                                                                                                                                   |      |                                                                                                                                 |                                                                                                                                   |                                                                                                                                   |
|------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| 7850 | <b>744 775 10</b><br>L: 10 $\mu$ H<br>R <sub>DC</sub> : 44 m $\Omega$<br>I <sub>R</sub> : 2.3 A<br>I <sub>sat</sub> : 2.95 A     | <b>744 775 112</b><br>L: 12 $\mu$ H<br>R <sub>DC</sub> : 42 m $\Omega$<br>I <sub>R</sub> : 2.18 A<br>I <sub>sat</sub> : 2.2 A    | <b>744 775 115</b><br>L: 15 $\mu$ H<br>R <sub>DC</sub> : 44 m $\Omega$<br>I <sub>R</sub> : 1.93 A<br>I <sub>sat</sub> : 2.23 A   | <b>744 775 118</b><br>L: 18 $\mu$ H<br>R <sub>DC</sub> : 53 m $\Omega$<br>I <sub>R</sub> : 1.89 A<br>I <sub>sat</sub> : 2.14 A    | 7850 | <b>744 775 122</b><br>L: 22 $\mu$ H<br>R <sub>DC</sub> : 65 m $\Omega$<br>I <sub>R</sub> : 1.76 A<br>I <sub>sat</sub> : 1.81 A  | <b>744 775 127</b><br>L: 27 $\mu$ H<br>R <sub>DC</sub> : 74 m $\Omega$<br>I <sub>R</sub> : 1.48 A<br>I <sub>sat</sub> : 1.62 A    | <b>744 775 133</b><br>L: 33 $\mu$ H<br>R <sub>DC</sub> : 130 m $\Omega$<br>I <sub>R</sub> : 1.35 A<br>I <sub>sat</sub> : 1.47 A   |
|      | <b>744 775 147</b><br>L: 47 $\mu$ H<br>R <sub>DC</sub> : 134 m $\Omega$<br>I <sub>R</sub> : 1.17 A<br>I <sub>sat</sub> : 1.24 A  | <b>744 775 156</b><br>L: 56 $\mu$ H<br>R <sub>DC</sub> : 189 m $\Omega$<br>I <sub>R</sub> : 1.04 A<br>I <sub>sat</sub> : 1.14 A  | <b>744 775 168</b><br>L: 68 $\mu$ H<br>R <sub>DC</sub> : 218 m $\Omega$<br>I <sub>R</sub> : 0.99 A<br>I <sub>sat</sub> : 1.05 A  | <b>744 775 182</b><br>L: 82 $\mu$ H<br>R <sub>DC</sub> : 248 m $\Omega$<br>I <sub>R</sub> : 0.9 A<br>I <sub>sat</sub> : 0.95 A    |      | <b>744 775 20</b><br>L: 100 $\mu$ H<br>R <sub>DC</sub> : 208 m $\Omega$<br>I <sub>R</sub> : 0.77 A<br>I <sub>sat</sub> : 0.86 A | <b>744 775 215</b><br>L: 150 $\mu$ H<br>R <sub>DC</sub> : 467 m $\Omega$<br>I <sub>R</sub> : 0.6 A<br>I <sub>sat</sub> : 0.71 A   | <b>744 775 218</b><br>L: 180 $\mu$ H<br>R <sub>DC</sub> : 574 m $\Omega$<br>I <sub>R</sub> : 0.55 A<br>I <sub>sat</sub> : 0.57 A  |
|      | <b>744 775 222</b><br>L: 220 $\mu$ H<br>R <sub>DC</sub> : 614 m $\Omega$<br>I <sub>R</sub> : 0.51 A<br>I <sub>sat</sub> : 0.56 A | <b>744 775 227</b><br>L: 270 $\mu$ H<br>R <sub>DC</sub> : 699 m $\Omega$<br>I <sub>R</sub> : 0.47 A<br>I <sub>sat</sub> : 0.51 A | <b>744 775 233</b><br>L: 330 $\mu$ H<br>R <sub>DC</sub> : 810 m $\Omega$<br>I <sub>R</sub> : 0.43 A<br>I <sub>sat</sub> : 0.48 A | <b>744 775 247</b><br>L: 470 $\mu$ H<br>R <sub>DC</sub> : 1370 m $\Omega$<br>I <sub>R</sub> : 0.36 A<br>I <sub>sat</sub> : 0.38 A |      | <b>744 776 10</b><br>L: 10 $\mu$ H<br>R <sub>DC</sub> : 28 m $\Omega$<br>I <sub>R</sub> : 2.98 A<br>I <sub>sat</sub> : 3.24 A   | <b>744 776 118</b><br>L: 18 $\mu$ H<br>R <sub>DC</sub> : 43 m $\Omega$<br>I <sub>R</sub> : 2.36 A<br>I <sub>sat</sub> : 2.43 A    | <b>744 776 122</b><br>L: 22 $\mu$ H<br>R <sub>DC</sub> : 51 m $\Omega$<br>I <sub>R</sub> : 2.04 A<br>I <sub>sat</sub> : 2.07 A    |
|      | <b>744 776 127</b><br>L: 27 $\mu$ H<br>R <sub>DC</sub> : 63 m $\Omega$<br>I <sub>R</sub> : 1.95 A<br>I <sub>sat</sub> : 1.98 A   | <b>744 776 133</b><br>L: 33 $\mu$ H<br>R <sub>DC</sub> : 83 m $\Omega$<br>I <sub>R</sub> : 1.78 A<br>I <sub>sat</sub> : 1.89 A   | <b>744 776 147</b><br>L: 47 $\mu$ H<br>R <sub>DC</sub> : 95 m $\Omega$<br>I <sub>R</sub> : 1.45 A<br>I <sub>sat</sub> : 1.62 A   | <b>744 776 168</b><br>L: 68 $\mu$ H<br>R <sub>DC</sub> : 136 m $\Omega$<br>I <sub>R</sub> : 1.19 A<br>I <sub>sat</sub> : 1.49 A   |      | <b>744 776 182</b><br>L: 82 $\mu$ H<br>R <sub>DC</sub> : 150 m $\Omega$<br>I <sub>R</sub> : 1.11 A<br>I <sub>sat</sub> : 1.17 A | <b>744 776 20</b><br>L: 100 $\mu$ H<br>R <sub>DC</sub> : 200 m $\Omega$<br>I <sub>R</sub> : 1.02 A<br>I <sub>sat</sub> : 1.1 A    | <b>744 776 212</b><br>L: 120 $\mu$ H<br>R <sub>DC</sub> : 243 m $\Omega$<br>I <sub>R</sub> : 0.94 A<br>I <sub>sat</sub> : 0.99 A  |
|      | <b>744 776 215</b><br>L: 150 $\mu$ H<br>R <sub>DC</sub> : 300 m $\Omega$<br>I <sub>R</sub> : 0.81 A<br>I <sub>sat</sub> : 0.9 A  | <b>744 776 218</b><br>L: 180 $\mu$ H<br>R <sub>DC</sub> : 320 m $\Omega$<br>I <sub>R</sub> : 0.76 A<br>I <sub>sat</sub> : 0.78 A | <b>744 776 222</b><br>L: 220 $\mu$ H<br>R <sub>DC</sub> : 451 m $\Omega$<br>I <sub>R</sub> : 0.67 A<br>I <sub>sat</sub> : 0.77 A | <b>744 776 233</b><br>L: 330 $\mu$ H<br>R <sub>DC</sub> : 750 m $\Omega$<br>I <sub>R</sub> : 0.52 A<br>I <sub>sat</sub> : 0.59 A  |      | <b>744 776 247</b><br>L: 470 $\mu$ H<br>R <sub>DC</sub> : 969 m $\Omega$<br>I <sub>R</sub> : 0.44 A<br>I <sub>sat</sub> : 0.5 A | <b>744 776 268</b><br>L: 680 $\mu$ H<br>R <sub>DC</sub> : 1245 m $\Omega$<br>I <sub>R</sub> : 0.36 A<br>I <sub>sat</sub> : 0.43 A | <b>744 776 282</b><br>L: 820 $\mu$ H<br>R <sub>DC</sub> : 1420 m $\Omega$<br>I <sub>R</sub> : 0.32 A<br>I <sub>sat</sub> : 0.41 A |

EMC COMPONENTS | INDUCTORS | TRANSFORMERS | RF COMPONENTS | CIRCUIT PROTECTION | EMC SHIELDING MATERIAL | CONNECTORS | SWITCHES | ASSEMBLY TECHNIQUE | POWER ELEMENTS

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