

# DESIGN KIT

## WE-MAIA – Metal Alloy Power Inductor

### 3010 / 3012 / 3015 / 3020 / 4020



3010			3012		
<b>784 383 330 22</b>	<b>784 383 330 33</b>	<b>784 383 330 47</b>	<b>784 383 340 033</b>	<b>784 383 340 047</b>	<b>784 383 340 056</b>
L: 2.2 µH	L: 3.3 µH	L: 4.7 µH	L: 0.33 µH	L: 0.47 µH	L: 0.56 µH
R <sub>DC typ.</sub> : 150 mΩ	R <sub>DC typ.</sub> : 232 mΩ	R <sub>DC typ.</sub> : 356 mΩ	R <sub>DC typ.</sub> : 19 mΩ	R <sub>DC typ.</sub> : 22 mΩ	R <sub>DC typ.</sub> : 29 mΩ
I <sub>IC</sub> : 1.4 A	I <sub>IC</sub> : 1.1 A	I <sub>IC</sub> : 0.9 A	I <sub>IC</sub> : 4.8 A	I <sub>IC</sub> : 4.0 A	I <sub>IC</sub> : 3.6 A
I <sub>SAT</sub> : 3.9 A	I <sub>SAT</sub> : 2.95 A	I <sub>SAT</sub> : 2.4 A	I <sub>SAT</sub> : 11.1 A	I <sub>SAT</sub> : 9.4 A	I <sub>SAT</sub> : 8.5 A
3012					
<b>784 383 340 068</b>	<b>784 383 340 10</b>	<b>784 383 340 12</b>	<b>784 383 340 15</b>	<b>784 383 340 22</b>	<b>784 383 340 33</b>
L: 0.68 µH	L: 1.0 µH	L: 1.2 µH	L: 1.5 µH	L: 2.2 µH	L: 3.3 µH
R <sub>DC typ.</sub> : 36 mΩ	R <sub>DC typ.</sub> : 42.1 mΩ	R <sub>DC typ.</sub> : 55 mΩ	R <sub>DC typ.</sub> : 80 mΩ	R <sub>DC typ.</sub> : 100 mΩ	R <sub>DC typ.</sub> : 156.3 mΩ
I <sub>IC</sub> : 3.5 A	I <sub>IC</sub> : 2.75 A	I <sub>IC</sub> : 2.65 A	I <sub>IC</sub> : 2.0 A	I <sub>IC</sub> : 1.80 A	I <sub>IC</sub> : 1.4 A
I <sub>SAT</sub> : 7.7 A	I <sub>SAT</sub> : 6.6 A	I <sub>SAT</sub> : 6.0 A	I <sub>SAT</sub> : 5.7 A	I <sub>SAT</sub> : 5.0 A	I <sub>SAT</sub> : 4.0 A
3012			3015		
<b>784 383 340 47</b>	<b>784 383 340 56</b>	<b>784 383 340 68</b>	<b>784 383 350 10</b>	<b>784 383 350 22</b>	<b>784 383 350 33</b>
L: 4.7 µH	L: 5.6 µH	L: 6.8 µH	L: 1.0 µH	L: 2.2 µH	L: 3.3 µH
R <sub>DC typ.</sub> : 267.7 mΩ	R <sub>DC typ.</sub> : 338.3 mΩ	R <sub>DC typ.</sub> : 368.2 mΩ	R <sub>DC typ.</sub> : 39 mΩ	R <sub>DC typ.</sub> : 94 mΩ	R <sub>DC typ.</sub> : 114 mΩ
I <sub>IC</sub> : 1.1 A	I <sub>IC</sub> : 1.0 A	I <sub>IC</sub> : 0.88 A	I <sub>IC</sub> : 2.7 A	I <sub>IC</sub> : 1.8 A	I <sub>IC</sub> : 1.7 A
I <sub>SAT</sub> : 3.8 A	I <sub>SAT</sub> : 3.0 A	I <sub>SAT</sub> : 2.7 A	I <sub>SAT</sub> : 4.5 A	I <sub>SAT</sub> : 3.5 A	I <sub>SAT</sub> : 3.2 A
3015					
<b>784 383 350 47</b>	<b>784 383 350 68</b>	<b>784 383 351 00</b>	<b>784 383 351 50</b>	<b>784 383 352 20</b>	<b>784 383 353 30</b>
L: 4.7 µH	L: 6.8 µH	L: 10.0 µH	L: 15.0 µH	L: 22.0 µH	L: 33.0 µH
R <sub>DC typ.</sub> : 141 mΩ	R <sub>DC typ.</sub> : 250 mΩ	R <sub>DC typ.</sub> : 446 mΩ	R <sub>DC typ.</sub> : 720 mΩ	R <sub>DC typ.</sub> : 940 mΩ	R <sub>DC typ.</sub> : 1210 mΩ
I <sub>IC</sub> : 1.5 A	I <sub>IC</sub> : 1.1 A	I <sub>IC</sub> : 0.85 A	I <sub>IC</sub> : 0.65 A	I <sub>IC</sub> : 0.60 A	I <sub>IC</sub> : 0.50 A
I <sub>SAT</sub> : 2.8 A	I <sub>SAT</sub> : 2.4 A	I <sub>SAT</sub> : 2.0 A	I <sub>SAT</sub> : 1.71 A	I <sub>SAT</sub> : 1.60 A	I <sub>SAT</sub> : 1.30 A
3015		3020			
<b>784 383 354 70</b>	<b>784 383 360 10</b>	<b>784 383 360 12</b>	<b>784 383 360 22</b>	<b>784 383 360 47</b>	<b>784 383 361 00</b>
L: 47.0 µH	L: 1.0 µH	L: 1.2 µH	L: 2.2 µH	L: 4.7 µH	L: 10.0 µH
R <sub>DC typ.</sub> : 2090 mΩ	R <sub>DC typ.</sub> : 26 mΩ	R <sub>DC typ.</sub> : 30 mΩ	R <sub>DC typ.</sub> : 67 mΩ	R <sub>DC typ.</sub> : 137 mΩ	R <sub>DC typ.</sub> : 280 mΩ
I <sub>IC</sub> : 0.39 A	I <sub>IC</sub> : 4.0 A	I <sub>IC</sub> : 3.9 A	I <sub>IC</sub> : 2.4 A	I <sub>IC</sub> : 1.9 A	I <sub>IC</sub> : 1.2 A
I <sub>SAT</sub> : 1.18 A	I <sub>SAT</sub> : 5.0 A	I <sub>SAT</sub> : 4.75 A	I <sub>SAT</sub> : 4.30 A	I <sub>SAT</sub> : 3.90 A	I <sub>SAT</sub> : 2.35 A
4020					
<b>784 383 560 056</b>	<b>784 383 560 10</b>	<b>784 383 560 15</b>	<b>784 383 560 22</b>	<b>784 383 560 47</b>	<b>784 383 560 56</b>
L: 0.56 µH	L: 1.0 µH	L: 1.5 µH	L: 2.2 µH	L: 4.7 µH	L: 5.6 µH
R <sub>DC typ.</sub> : 7 mΩ	R <sub>DC typ.</sub> : 12 mΩ	R <sub>DC typ.</sub> : 16 mΩ	R <sub>DC typ.</sub> : 29 mΩ	R <sub>DC typ.</sub> : 63 mΩ	R <sub>DC typ.</sub> : 68 mΩ
I <sub>IC</sub> : 8.5 A	I <sub>IC</sub> : 7.2 A	I <sub>IC</sub> : 5.8 A	I <sub>IC</sub> : 4.7 A	I <sub>IC</sub> : 2.9 A	I <sub>IC</sub> : 2.8 A
I <sub>SAT</sub> : 10.8 A	I <sub>SAT</sub> : 9.0 A	I <sub>SAT</sub> : 7.8 A	I <sub>SAT</sub> : 6.2 A	I <sub>SAT</sub> : 4.7 A	I <sub>SAT</sub> : 4.6 A

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