



DESIGN KIT

WE-MAIA – Metal Alloy Power Inductor
3010 / 3012 / 3015 / 3020 / 4020



SIZE:

3010 / 3012 / 3015 / 3020 / 4020

TECHNICAL DATA:

L: 0.33 – 47 μ H
R_{DC typ}: 7 – 2090 m Ω
I_R: 0.39 – 8.5 A
I_{SAT}: 1.18 – 11.1 A

Order Code 784 383 3
Version 3.0

DESIGN KIT

WE-MAIA – Metal Alloy Power Inductor

3010 / 3012 / 3015 / 3020 / 4020



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

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Please check datasheets on www.we-online.com for specifications.
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