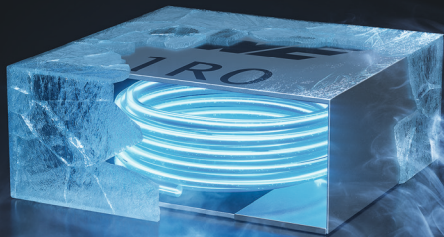


# ULTRA LOW LOSSES. WE-MXGI.



With the WE-MXGI Würth Elektronik offers the newest molded power inductor series. It combines an innovative iron alloy material that provides high permeability for lowest  $R_{DC}$  values combined with an optimized wire geometry.

Ready to Design-In? Take advantage of personal technical support and free samples ex-stock.

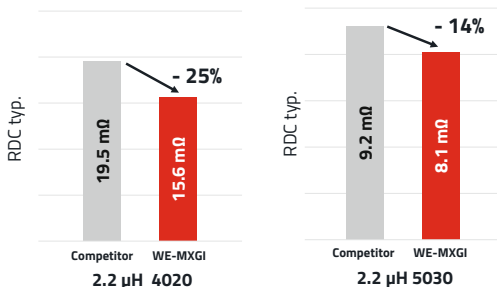


[www.we-online.com/WE-MXGI](http://www.we-online.com/WE-MXGI)

## Highlights

- Extremely high power density
- Ultra low  $R_{DC}$  values and AC losses
- Magnetically shielded
- Optimized for high switching frequencies beyond 1 MHz

## LOWEST $R_{DC}$ VALUES



## ULTRA LOW LOSSES

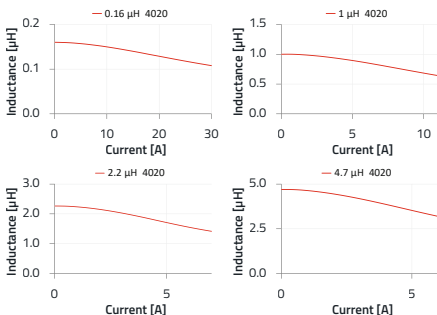
24V to 6V @ 8A, 1MHz,  
2.2  $\mu$ H 5030



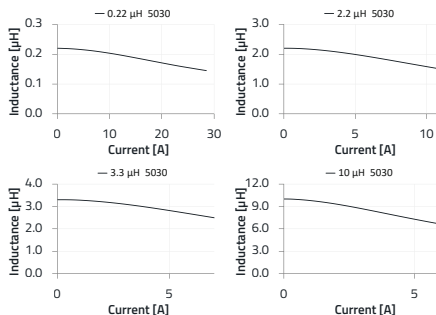
# WE-MXGI – OUTSTANDING PERFORMANCE

## SATURATION CURRENT

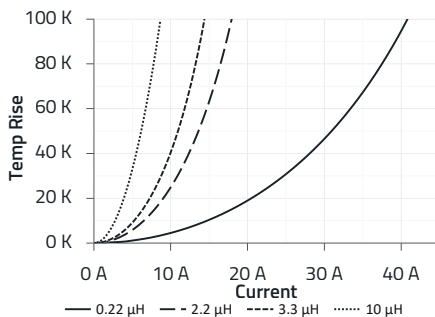
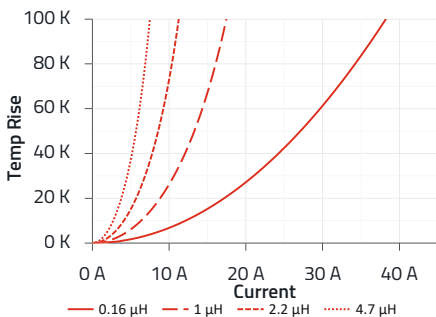
4020



5030



## PERFORMANCE RATED CURRENT



| Size | Order Code        | L<br>(μH) | I <sub>RP</sub> 40K<br>(A) | I <sub>SAT</sub> 30%<br>(A) | R <sub>DC</sub> typ<br>(mΩ) | f <sub>res</sub><br>(MHz) |
|------|-------------------|-----------|----------------------------|-----------------------------|-----------------------------|---------------------------|
| 4020 | 744 384 4020 0016 | 0.16      | 24.2                       | 27.9                        | 1.5                         | 197                       |
|      | 744 384 4020 010  | 1         | 12.1                       | 9.8                         | 6.9                         | 59.3                      |
|      | 744 384 4020 022  | 2.2       | 7.8                        | 5.8                         | 15.6                        | 37.3                      |
|      | 744 384 4020 047  | 4.7       | 5.2                        | 5.7                         | 40.3                        | 24.7                      |
| 5030 | 744 384 5030 0022 | 0.22      | 28.1                       | 25.4                        | 1.5                         | 155                       |
|      | 744 384 5030 022  | 2.2       | 12.4                       | 10.5                        | 8.1                         | 35.1                      |
|      | 744 384 5030 033  | 3.3       | 10.0                       | 8.2                         | 12.9                        | 24.7                      |
|      | 744 384 5030 100  | 10        | 5.5                        | 5.4                         | 41.5                        | 12.3                      |

(AEC-Q200 qualification in process)

For more information get in contact  
with our technical sales team or visit  
[www.we-online.com/WE-MXGI](http://www.we-online.com/WE-MXGI)

... more sizes and  
values coming soon!