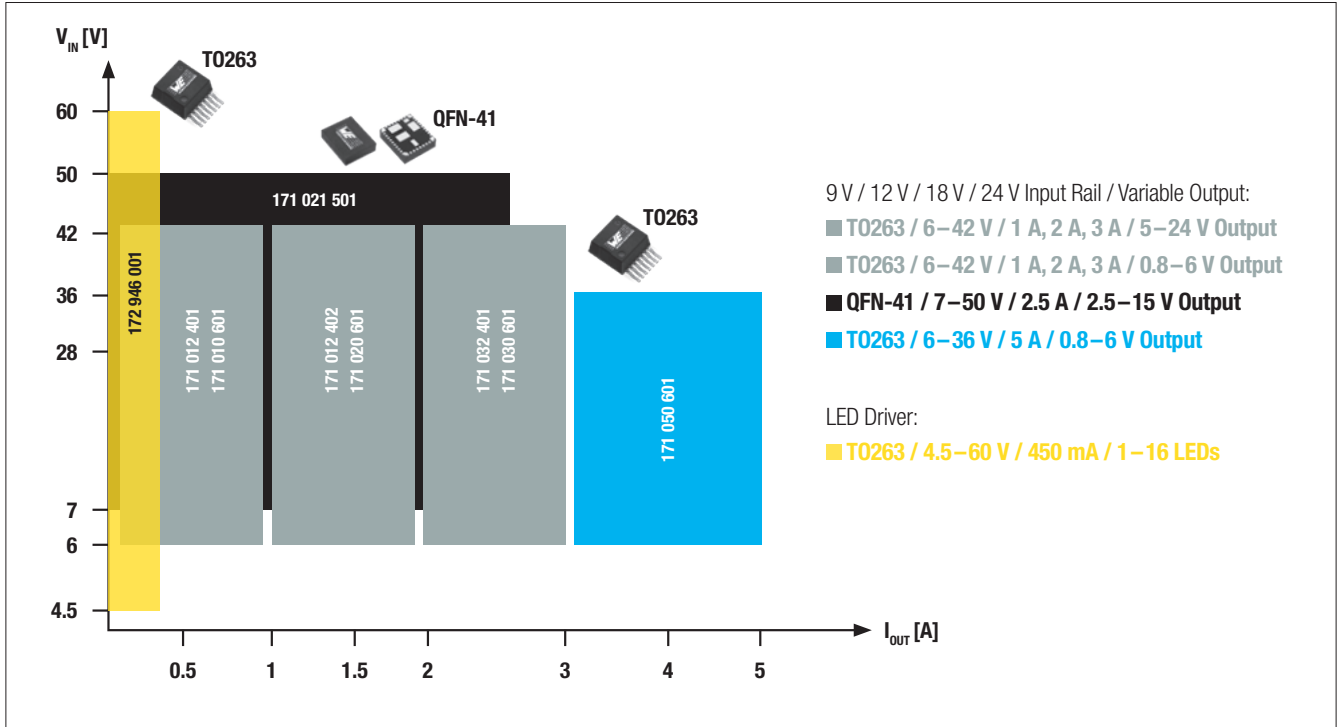
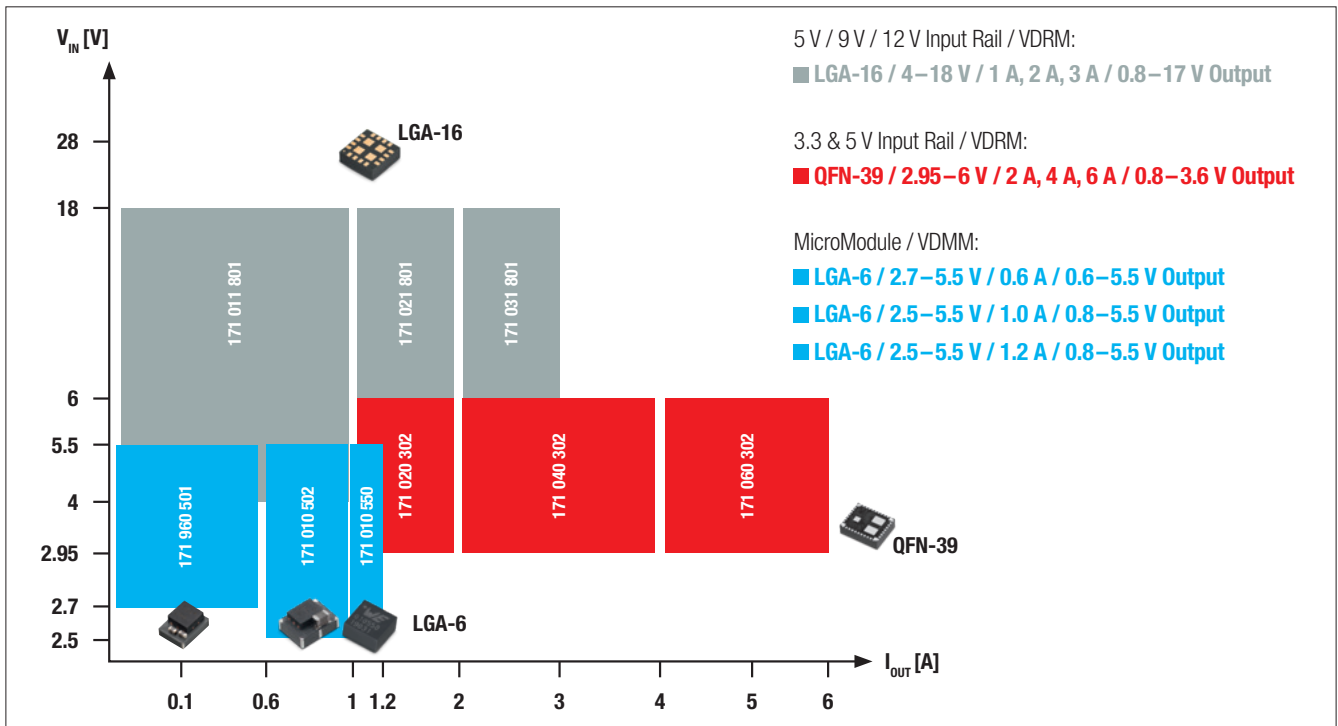


LDHM / VDRM / VDMM Portfolio

Variable Step Down Regulator Modules (VDRM) / LED Step Down High Current Module (LDHM) – High Voltage



Variable Step Down Regulator Modules (VDRM) / MicroModule (VDMM) – Low Voltage



LDHM / VDRM Portfolio (High Voltage)

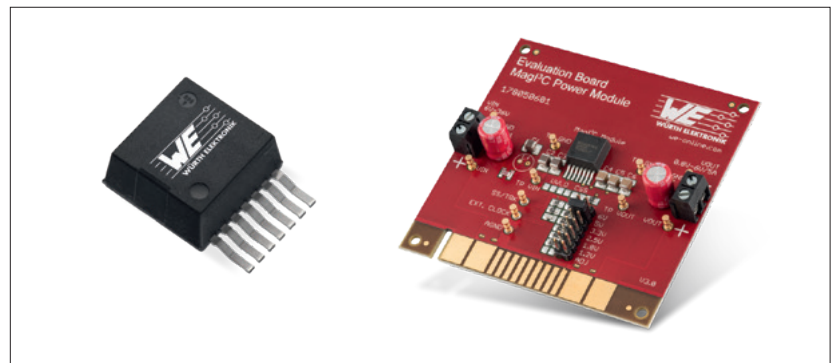
LDHM / VDRM MagI³C Power Modules

| Type | Input Rail (V) | V _{IN} (V) | V _{OUT} (V) | I _{OUT} max (A) | Package | Order Code Module | Order Code EVAL Board |
|---|--------------------------|---------------------|----------------------|--------------------------|-----------|-------------------|-----------------------|
| LED Step Down High Current Module (LDHM) | | | | | | | |
| | 5, 9, 12, 18, 24, 36, 48 | 4.5–60 | 4.5–60 | 0.45 | T0263-7EP | 172 946 001 | 178 946 001 |
| Variable Step Down Regulator Module (VDRM) | | | | | | | |
| | | | | 1 | | 171 010 601 | 178 010 601 |
| | | 6–42 | | 2 | | 171 020 601 | 178 020 601 |
| | | | 0.8–6 | 3 | | 171 030 601 | 178 030 601 |
| | 9, 12, 18, 24, 36* | 6–36 | | 5 | T0263-7EP | 171 050 601 | 178 050 601 |
| | | | | 1 | | 171 012 401 | 178 012 401 |
| | | 6–42 | 5–24 | 2 | | 171 012 402 | 178 012 402 |
| | | | | 3 | | 171 032 401 | 178 032 401 |
| | | 7–50* | 2.5–15 | 2.5 | BQFN-41 | 171 021 501 | 178 021 501 |

*36 V rail only supported by 50 V_{IN} module

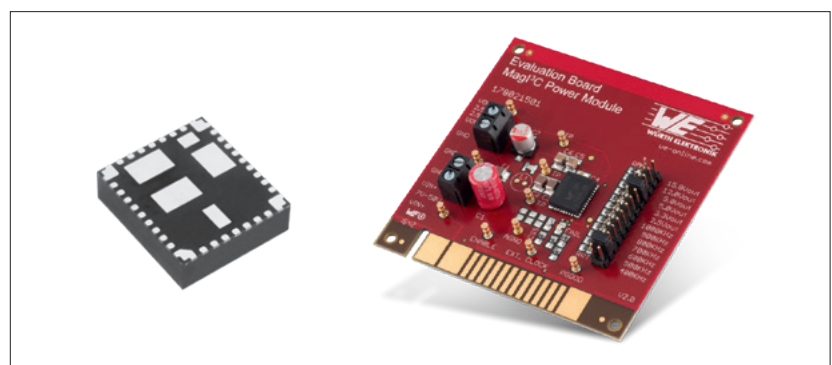
T0263 MagI³C Power Modules

- Leaded package for easy manufacturing and prototyping
- Simple layout
- Wide input voltage range for input transient capability
- Support ambient temperatures up to 105 °C
- 2 solder cycles supported



BQFN MagI³C Power Modules

- Low profile package
- Simple application circuit (only 4 external components required)
- Optional multiple features (adjustable frequency, adjustable soft-start, power-good, sequencing, tracking, synchronization to external clock, adjustable under-voltage lockout)
- Wide input voltage range
- 3 solder cycles supported



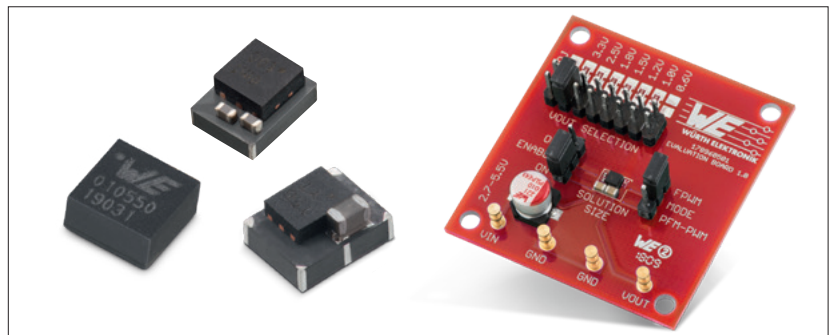
VDMM / VDRM Portfolio (Low Voltage)

VDMM / VDRM MagI³C Power Modules

| Type | Input Rail (V) | V _{IN} (V) | V _{OUT} (V) | I _{OUT} max (A) | Package | Order Code Module | Order Code EVAL Board |
|---|----------------|---------------------|----------------------|--------------------------|----------|-------------------|-----------------------|
| Variable Step Down MicroModule (VDMM) | | | | | | | |
| | | 2.7–5.5 | 0.6–5.5 | 0.6 | | 171 960 501 | 178 960 501 |
| | 3.3, 5 | 2.5–5.5 | 0.8–5.5 | 1 | LGA-6EP | 171 010 502 | 178 010 502 |
| | | | | 1.2 | | 171 010 550 | 178 010 550 |
| Variable Step Down Regulator Module (VDRM) | | | | | | | |
| | | | | 2 | | 171 020 302 | 178 020 302 |
| | 3.3, 5 | 2.95–6 | 0.8–3.6 | 4 | BQFN-39 | 171 040 302 | 178 040 302 |
| | | | | 6 | | 171 060 302 | 178 060 302 |
| | | | | 1 | | 171 011 801 | 178 011 801 |
| | 5, 9, 12 | 4–18 | 0.8–17 | 2 | LGA-16EP | 171 021 801 | 178 021 801 |
| | | | | 3 | | 171 031 801 | 178 031 801 |

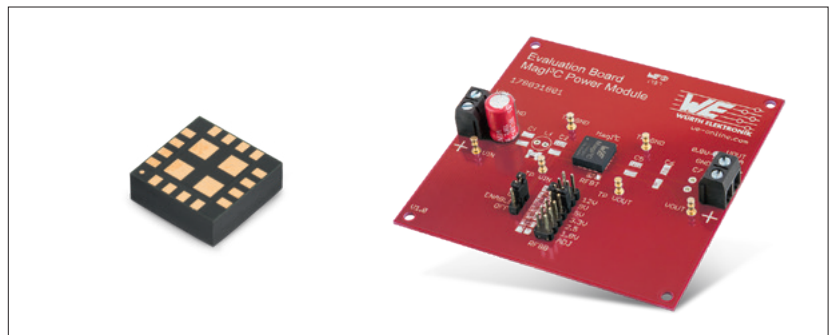
LGA-6 MagI³C Power Modules

- Very low profile micro package
- Ideal for space constrained applications
- Selectable forced PWM or auto PFM/PWM mode
- 3 solder cycles supported



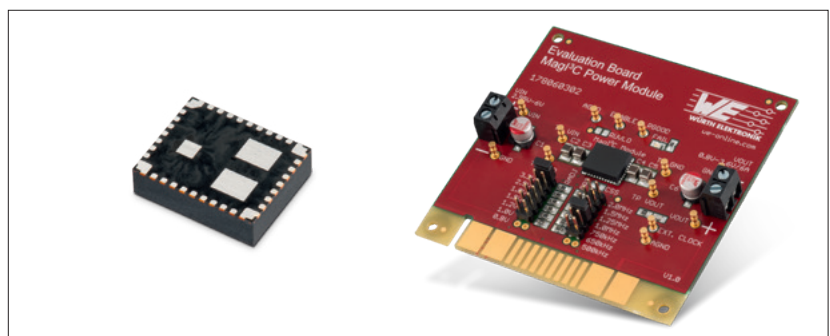
LGA-16 MagI³C Power Modules

- Low profile LGA package
- Stand alone solution (C_{IN} and C_{OUT} integrated, only 2 external components needed to set V_{OUT})
- Ideal for space constrained applications
- Auto PFM/PWM mode
- 2 solder cycles supported

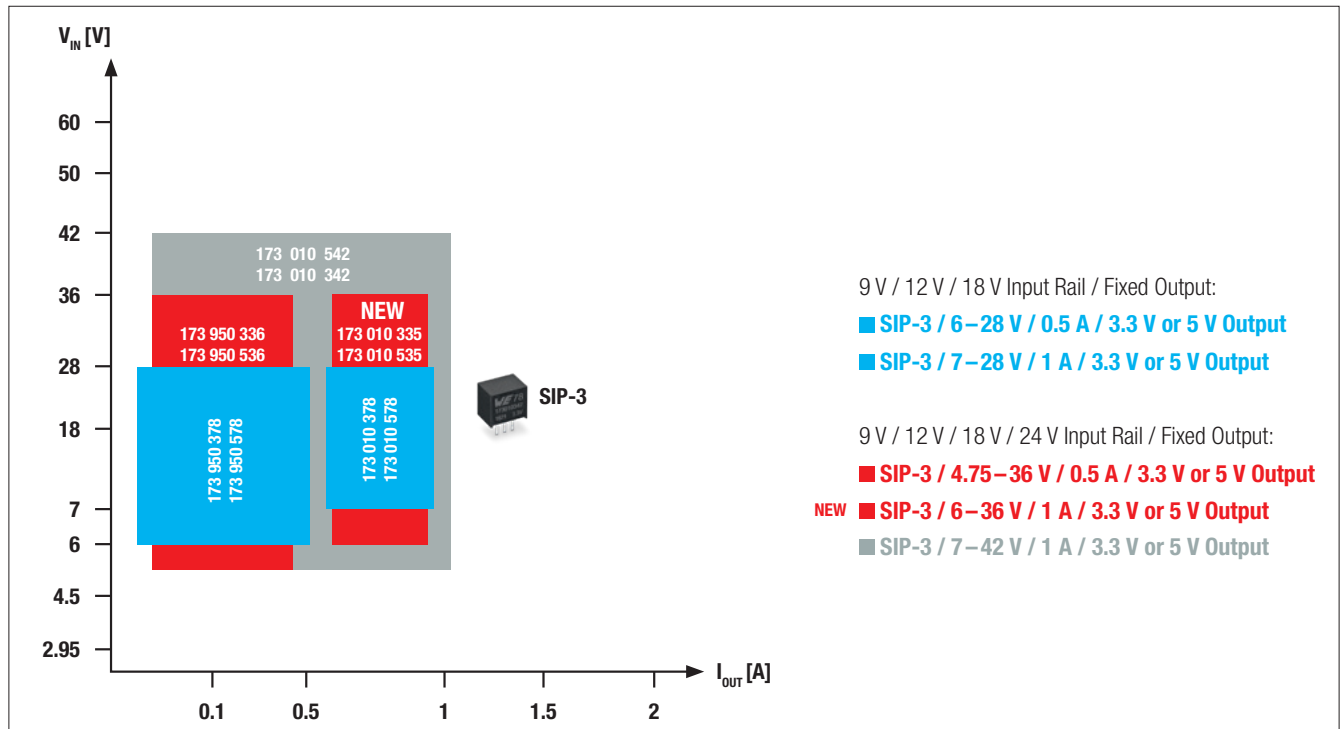


BQFN MagI³C Power Modules

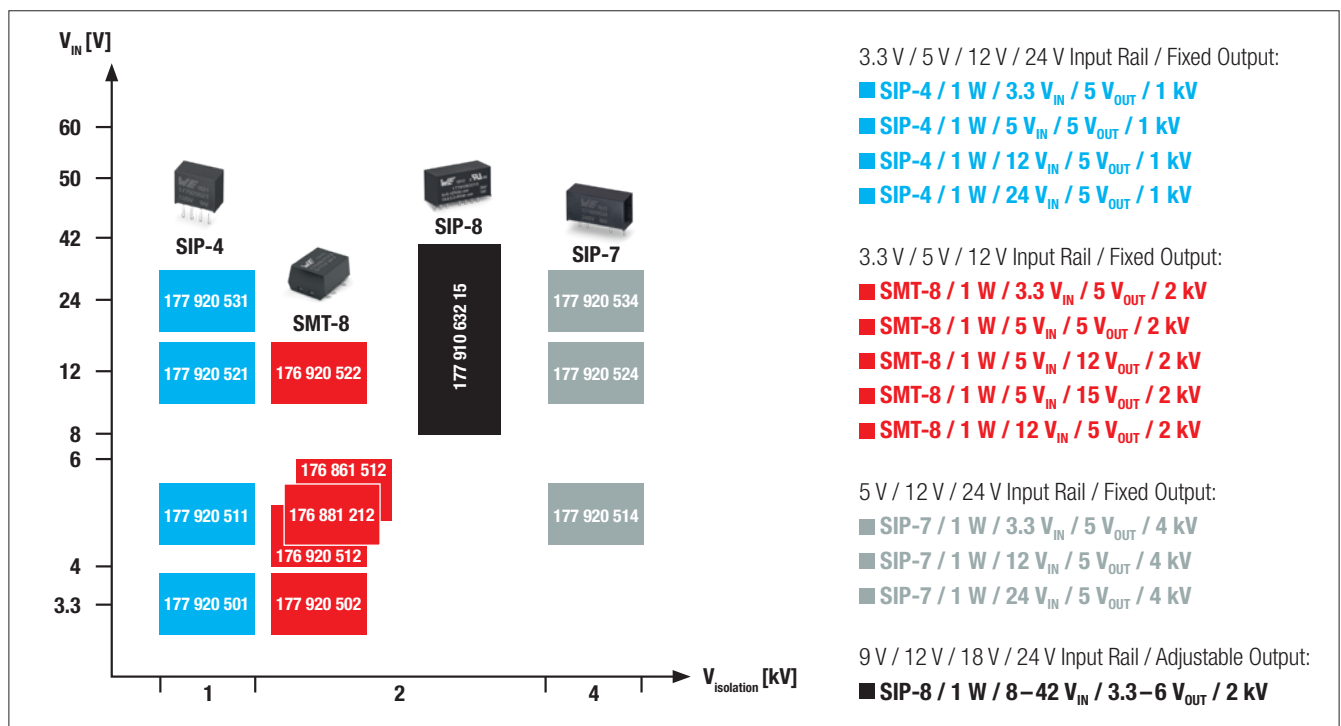
- Low profile package
- Simple application circuit (only 4 external components required)
- Optional multiple features (adjustable frequency, adjustable soft-start, power good, sequencing, tracking, synchronization to external clock, adjustable undervoltage lockout)
- 3 solder cycles supported



Fixed Step Down Regulator Module (FDSM)



Fixed Isolated SIP Module (FISM) / Variable Isolated SIP Module (VISM)



FDSM Portfolio (Through-Hole Package)

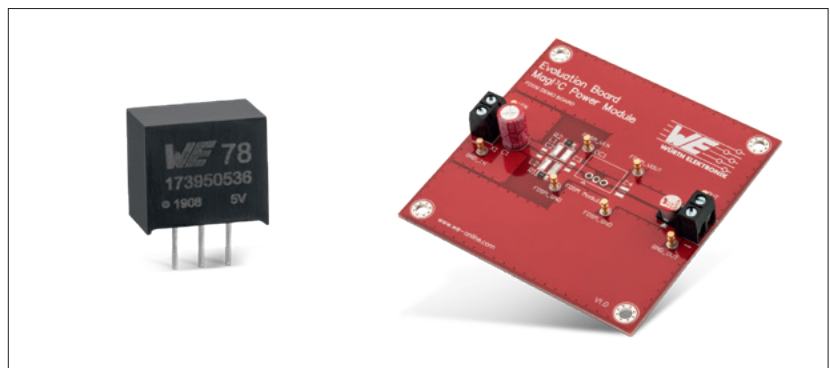
FDSM MagI³C Power Modules

| Type | Input Rail (V) | V _{IN} (V) | V _{OUT} (V) | I _{OUT} max (A) | Package | Order Code Module | Order Code EVAL Board |
|--|----------------|---------------------|----------------------|--------------------------|-------------|-------------------|-----------------------|
| Fixed Step Down Regulator Module (FDSM) | | | | | | | |
| | 9, 12, 18 | 6–28 | 3.3 | 0.5 | SIP-3 | 173 950 378 | 17800FDSM* |
| | | 6–36 | 3.3 | 1 | | 173 010 335 | |
| | | 7–28 | 5.0 | 0.5 | | 173 950 578 | |
| | | 7–28 | 3.3 | 1 | | 173 010 378 | |
| | 9, 12, 18, 24 | 8–28 | 5.0 | | SIP-3 | 173 010 578 | |
| | | 4.75–36 | 3.3 | 0.5 | | 173 950 336 | |
| | | 6.5–36 | 5.0 | | | 173 950 536 | |
| | | 6.36 | 5.0 | | | 173 010 535 | |
| | | 7–42 | 3.3 | | 173 010 342 | | |
| | | 8–42 | 5.0 | | 173 010 542 | | |

* module is not included

SIP-3 MagI³C Power Modules

- Easy design-in (no power supply knowledge required)
- Leaded through-hole package for easy manufacturing and prototyping
- Stand alone solution (C_{IN} and C_{OUT} integrated, no external components)
- L78x series linear regulator replacement (no heatsink required)



Fixed Isolated SIP / SMT Module Portfolio

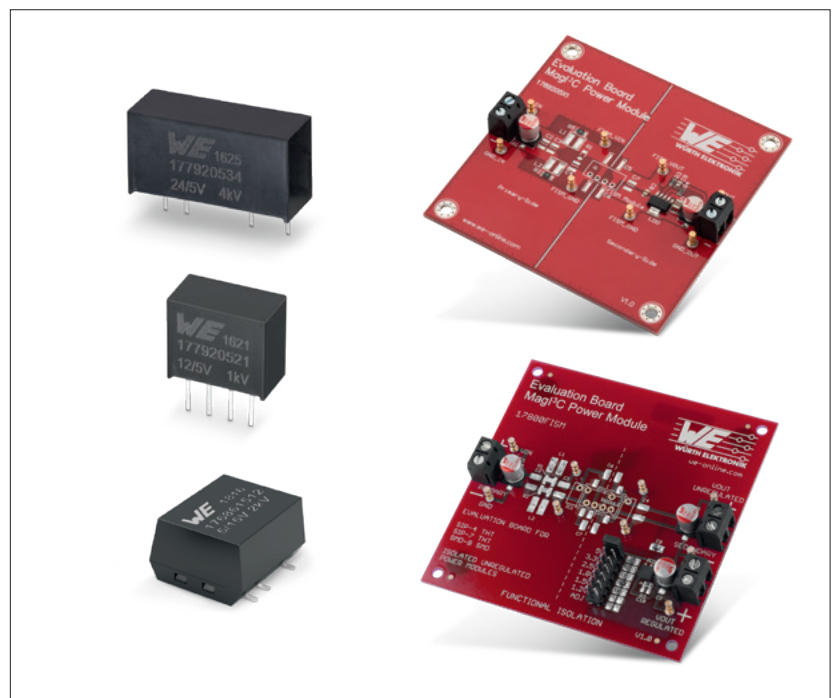
FISM MagI³C Power Modules

| Type | Input Rail (V) | V _{IN} (V) | V _{OUT} (V) | P _{OUT} max (W) | V _{isolation} (V) functional | Package | Order Code Module | Order Code EVAL Board |
|---|----------------|---------------------|----------------------|--------------------------|---------------------------------------|---------|-------------------|-----------------------|
| Fixed Isolated SIP Module (FISM) | | | | | | | | |
| ±10 % from nominal V _{IN} | 3.3 | 5.0 | 5.0 | 1 | 1000 | SIP-4 | 177 920 501 | 178 920 5X1* |
| | 5.0 | | | | | | 177 920 511 | |
| | 12 | | | | | | 177 920 521 | |
| | 24 | | | | | | 177 920 531 | |
| | 3.3 | 5.0 | 5.0 | 1 | 2000 | SMT-8 | 176 920 502 | 17800 FISM* |
| | 5.0 | | | | | | 176 920 512 | |
| | 12 | | | | | | 176 920 522 | |
| | 24 | | | | | | 176 920 532 | |
| | 5.0 | 5.0 | 5.0 | 1 | 4000 | SIP-7 | 177 920 514 | 178 920 5X4* |
| | 12 | | | | | | 177 920 524 | |
| | 15 | | | | | | 176 881 212 | |
| | 24 | | | | | | 177 920 534 | |

* module is not included

SIP-4 / SMT-8 / SIP-7 isolated MagI³C Power Modules

- Easy isolated design-in (no transformer design know-how required)
- SIP: Leaded through-hole package for easy manufacturing and prototyping
- SMT: Industrial standard surface mount package
- Stand alone solution (C_{IN} and C_{OUT} integrated, no external components)
- Simple functional isolation for overvoltage protection, avoiding ground loops, ground shift and noise in signal path or sensor systems
- Industrial standard package and pin configuration
- IEC/EN/UL60950 approved



VISM Portfolio (Through-Hole Package)

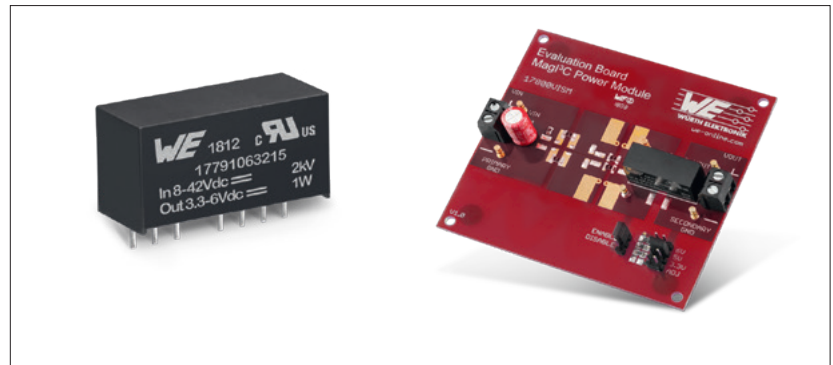
VISM MagI³C Power Modules

| Type | Input Rail (V) | V _{IN} (V) | V _{OUT} (V) | P _{OUT} max (W) | V _{ISO} (V) functional | Package | Order Code Module | Order Code EVAL Board |
|--|----------------|---------------------|----------------------|--------------------------|---------------------------------|---------|-------------------|-----------------------|
| Variable Isolated SIP Module (VISM) | | | | | | | | |
| | 9, 12, 18, 24 | 8–42 | 3.3–6 | 1–3* | 2000 | SIP-8 | 177 910 632 15 | 17800 VISM |

*3 W dynamic power boost for 0.5 s

SIP-8 adjustable isolated MagI³C Power Modules

- Easy isolated design-in (no transformer design know-how required)
- Flexible: Wide V_{IN} and adjustable regulated, short circuit protected V_{OUT}
- Power Boost: Tripple output power for short term load demands
- SIP: Leaded through-hole package for easy manufacturing and prototyping
- Stand alone solution (C_{IN} and C_{OUT} integrated, no external components)
- Simple functional isolation for overvoltage protection, avoiding ground loops, ground shift and noise in signal path or sensor systems
- Industrial standard package and pin configuration
- UL62368 approval



View details of emissions and temperature behavior in REDEXPERT:
www.we-online.com/re-behavior

