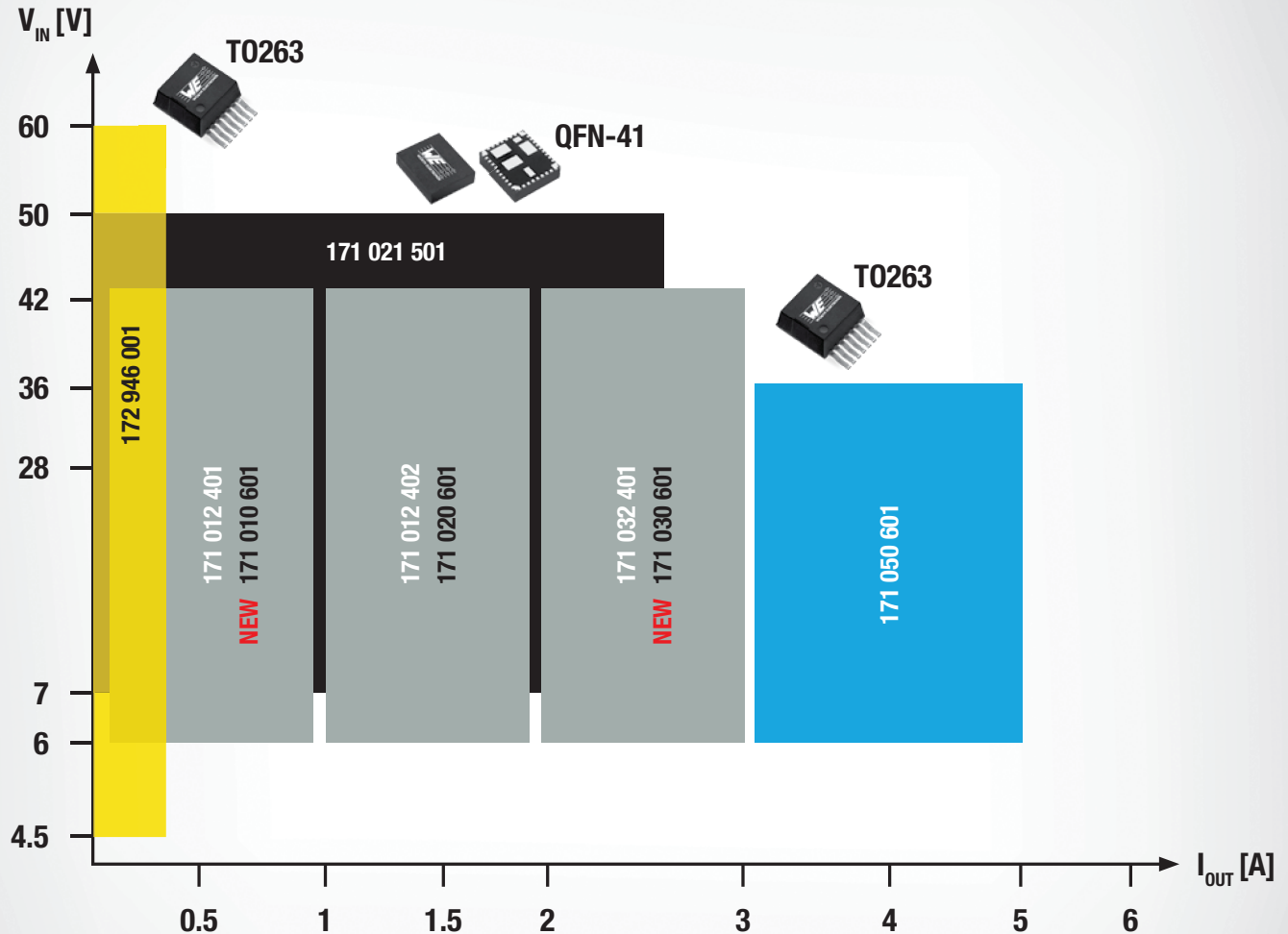


MagI³C Power Module Product Overview

VDRM / LDHM Portfolio (High Voltage)



9 V / 12 V / 18 V / 24 V Input Rail / Variable Output:

- NEW T0263 6-42 V / 1 A, 2 A, 3 A / 5-24 V Output
- NEW T0263 6-42 V / 1 A, 2 A, 3 A / 0.8-6 V Output
- QFN-41 7-50 V / 2.5 A / 2.5-15 V Output
- T0263 6-36 V / 5 A / 0.8-6 V Output

LED Driver:

- T0263 4.5-60 V / 450 mA / 1-16 LEDs

MagI³C Power Module Product Selection

VDRM / LDHM Portfolio (High Voltage)

VDRM / LDHM MagI ³ C Power Modules									
Type	Input Rail (V)	V _{IN} (V)	V _{OUT} (V)	I _{OUT} max (A)	Package	Order Code Module	Order Code Evaluation Board	Page	
LED Step Down High Current Module (LDHM)	12, 24, 48	4.5 – 60	4.5 – 60	0.45	T0263-7EP	172 946 001	178 946 001	35	
Variable Step Down Regulator Module (VDRM)	9, 12, 18, 24, 36*	6 – 42	0.8 – 6	1	T0263-7EP	171 010 601	178 010 601	60	NEW
		6 – 42	0.8 – 6	2	T0263-7EP	171 020 601	178 020 601	60	
		6 – 42	0.8 – 6	3	T0263-7EP	171 030 601	178 030 601	60	NEW
		6 – 36	0.8 – 6	5	T0263-7EP	171 050 601	178 050 601	68	
		6 – 42	5 – 24	1	T0263-7EP	171 012 401	178 012 401	60	
		6 – 42	5 – 24	2	T0263-7EP	171 012 402	178 012 402	60	NEW
		6 – 42	5 – 24	3	T0263-7EP	171 032 401	178 032 401	60	
		7 – 50*	2.5 – 15	2.5	BQFN-41	171 021 501	178 021 501	53	

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

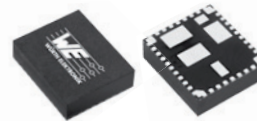
Benefits of T0263 MagI³C Power Modules

- 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



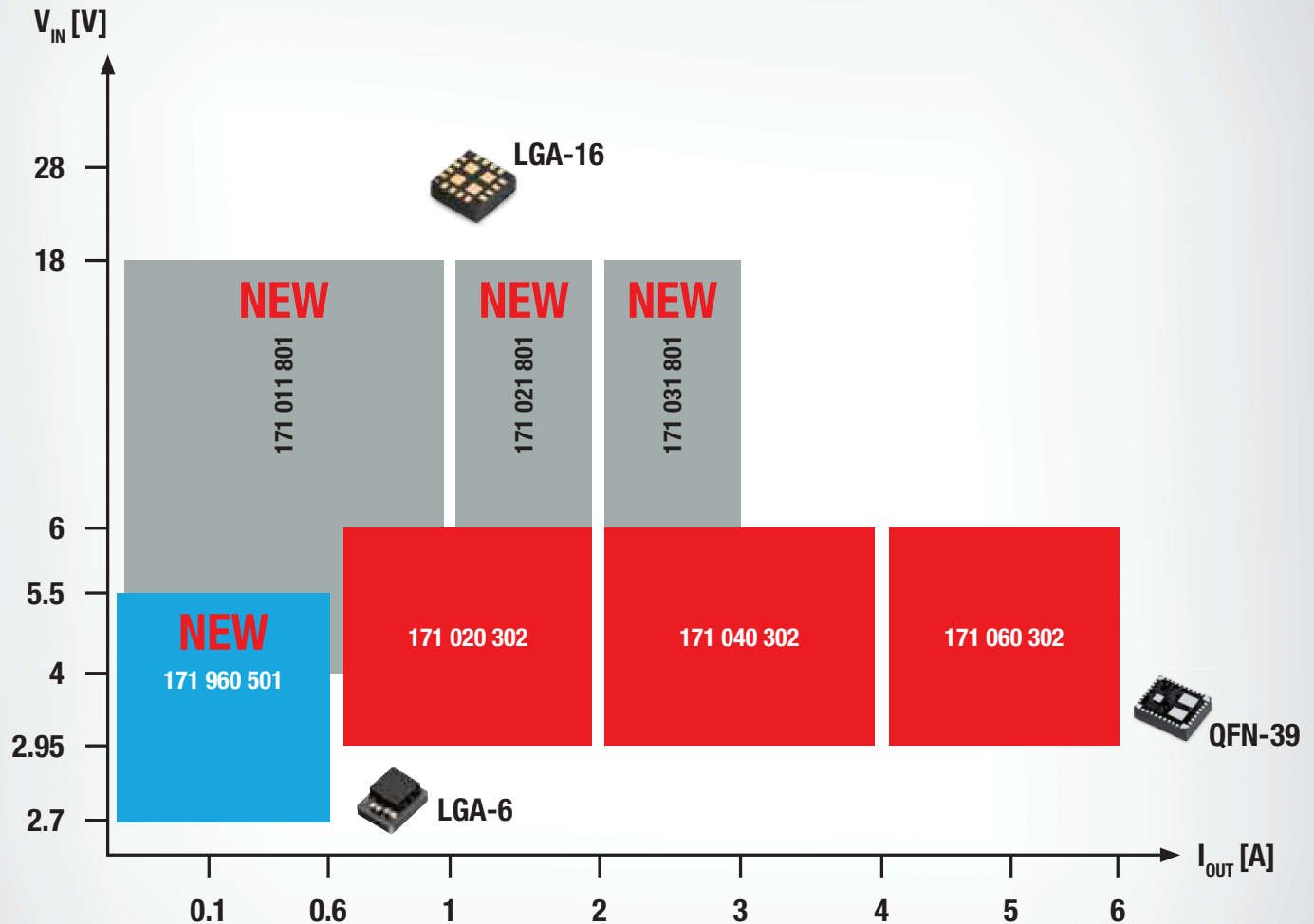
Benefits of QFN MagI³C Power Modules

- 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
- Wide input voltage range QFN-41 type
- 3 solder cycles supported



MagI³C Power Module Product Overview

VDRM & VDMM Portfolio (Low Voltage)



5 V / 9 V / 12 V Input Rail / Variable Output:

NEW ■ LGA-16 4-18 V / 1 A, 2 A, 3 A / 0.8-17 V Output

3.3 V / 5 V Input Rail / Variable Output:

■ QFN-39 2.95-6 V / 2 A, 4 A, 6 A / 0.8-3.6 V Output

MicroModule:

NEW ■ LGA-6 2.7-5.5 V / 0.6 A / 0.6-5.5 V Output

MagI³C Power Module Product Selection

VDRM & VDMM Portfolio (Low Voltage)

VDRM / LDHM MagI ³ C Power Modules								
Type	Input Rail (V)	V _{IN} (V)	V _{OUT} (V)	I _{OUT} max (A)	Package	Order Code Module	Order Code Evaluation Board	Page
Variable Step Down MicroModule (VDMM)	3.3, 5	2.7 – 5.5	0.6 – 5.5	0.6	LGA-6EP	171 960 501	178 960 501	46
Variable Step Down Regulator Module (VDRM)	3.3, 5	2.95 – 6	0.8 – 3.6	2	BQFN-39	171 020 302	178 020 302	48
		2.95 – 6	0.8 – 3.6	4	BQFN-39	171 040 302	178 040 302	48
		2.95 – 6	0.8 – 3.6	6	BQFN-39	171 060 302	178 060 302	48
	5, 9, 12	4 – 18	0.8 – 17	1	LGA-16EP	171 011 801	178 011 801	56
		4 – 18	0.8 – 17	2	LGA-16EP	171 021 801	178 021 801	56
		4 – 18	0.8 – 17	3	LGA-16EP	171 031 801	178 031 801	56

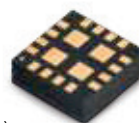
Benefits of LGA-6 MagI³C MicroModules

- Very low profile Micro-package
- Ideal for space constrained applications
- Small C_{IN} and C_{OUT} integrated
- 3 solder cycles supported



Benefits of LGA-16 MagI³C Power Modules

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



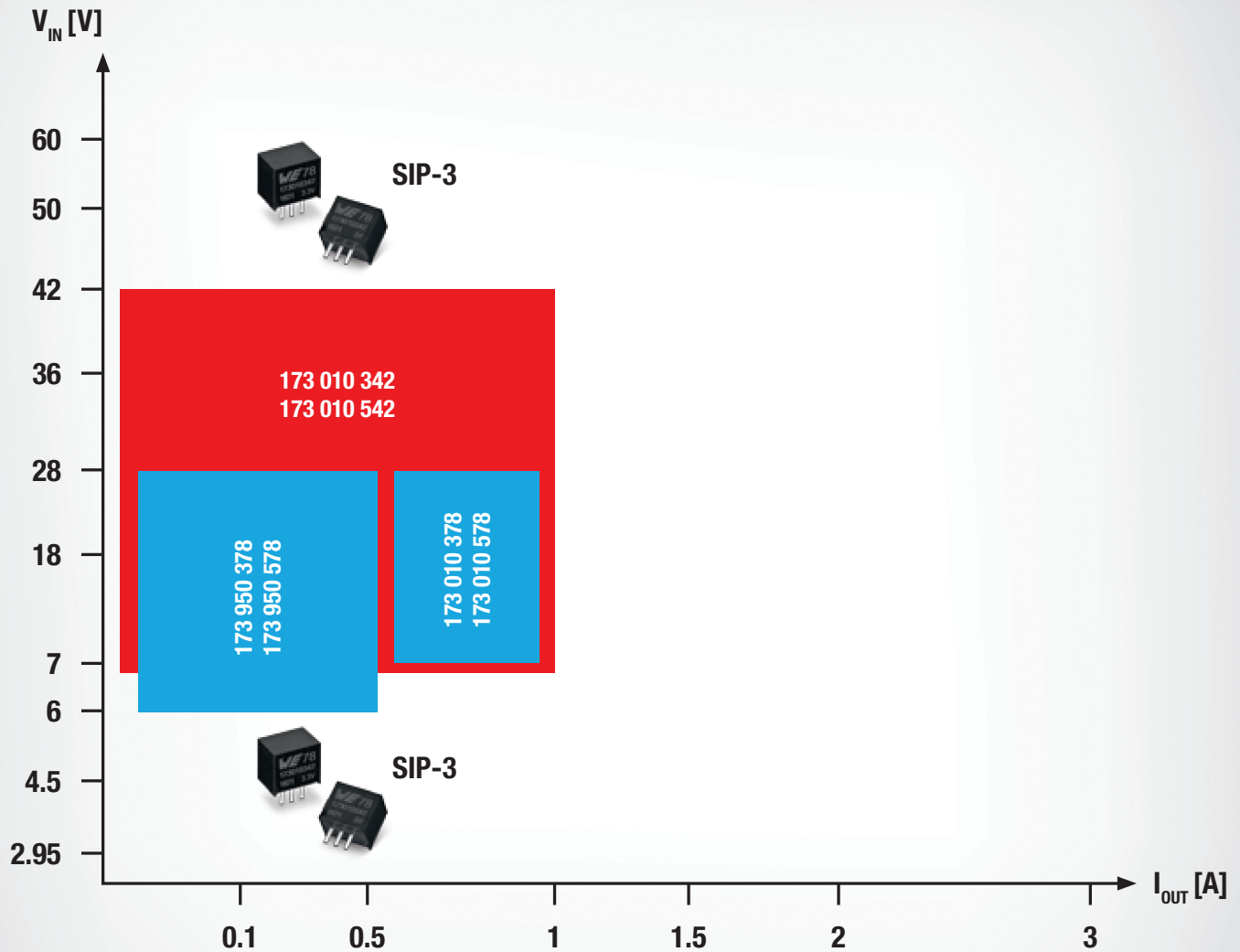
Benefits of QFN MagI³C Power Modules

- 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



MagI³C Power Module Product Overview

FDSM Portfolio



9 V / 12 V / 18 V Input Rail / Fixed Output:

- SIP-3 6-28 V / 0.5 A / 3.3 V or 5 V Output
- SIP-3 7-28 V / 1 A / 3.3 V or 5 V Output

9 V / 12 V / 18 V / 24 V Input Rail / Fixed Output:

- SIP-3 7-42 V / 1 A / 3.3 V or 5 V Output

MagI³C Power Module Product Selection

FDSM Portfolio

FDSM MagI ³ C Power Modules								
Type	Input Rail (V)	V _{IN} (V)	V _{OUT} (V)	I _{OUT} max (A)	Package	Order Code Module	Order Code EVAL Board	Page
Fixed Step Down Regulator Module (FDSM)	9, 12, 18	6 – 28	3.3	0.5	SIP-3	173 950 378	17800FDSM	40
		7 – 28	5.0	0.5		173 950 578		40
		7 – 28	3.3	1		173 010 378		40
		8 – 28	5.0	1		173 010 578		40
	9, 12, 18, 24	7 – 42	3.3	1		173 010 342		43
		8 – 42	5.0	1		173 010 542		43

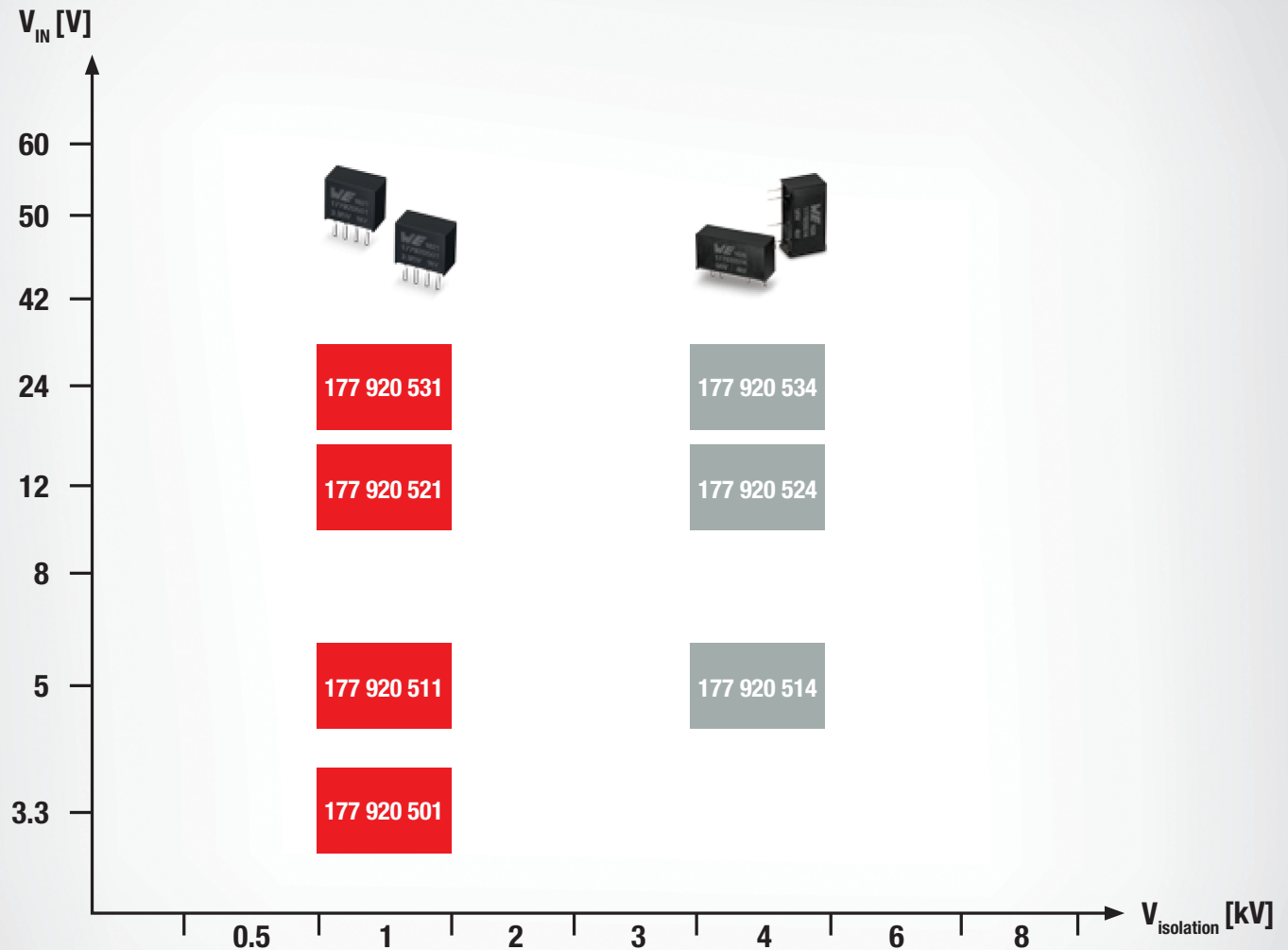
Benefits of **SIP-3** MagI³C Power Modules

- Simplest design (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)



MagI³C Isolated Power Module Product Overview

FISM Portfolio



3.3 V / 5 V / 12 V / 24 V Input Rail / Fixed Isolated Output:

- SIP-4 3.3 V / 1 W / 5 V Output / 1 kV
- SIP-4 5 V / 1 W / 5 V Output / 1 kV
- SIP-4 12 V / 1 W / 5 V Output / 1 kV
- SIP-4 24 V / 1 W / 5 V Output / 1 kV

5 V / 12 V / 24 V Input Rail / Fixed Isolated Output:

- SIP-7 5 V / 1 W / 5 V Output / 4 kV
- SIP-7 12 V / 1 W / 5 V Output / 4 kV
- SIP-7 24 V / 1 W / 5 V Output / 4 kV

MagI³C Isolated Power Modules Selection

FISM Portfolio

FISM MagI ³ C 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	Page
Fixed Isolated SIP Module (FISM)	±10 % from nominal V _{IN}	3.3	5.0	1	1000	SIP-4	177 920 501	1789205X1	71
		5.0	5.0	1	1000		177 920 511		
		12	5.0	1	1000		177 920 521		
		24	5.0	1	1000		177 920 531		
		5.0	5.0	1	4000	SIP-7	177 920 514	1789205X4	
		12	5.0	1	4000		177 920 524		
		24	5.0	1	4000		177 920 534		

Benefits of **isolated SIP** MagI³C Power Modules

- Simplest design (no transformer design know-how required)
- 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 and ground shift
 - avoiding noise in signal path or sensor systems
- Standard industrial package and pin configuration
- UL60950 approved

