

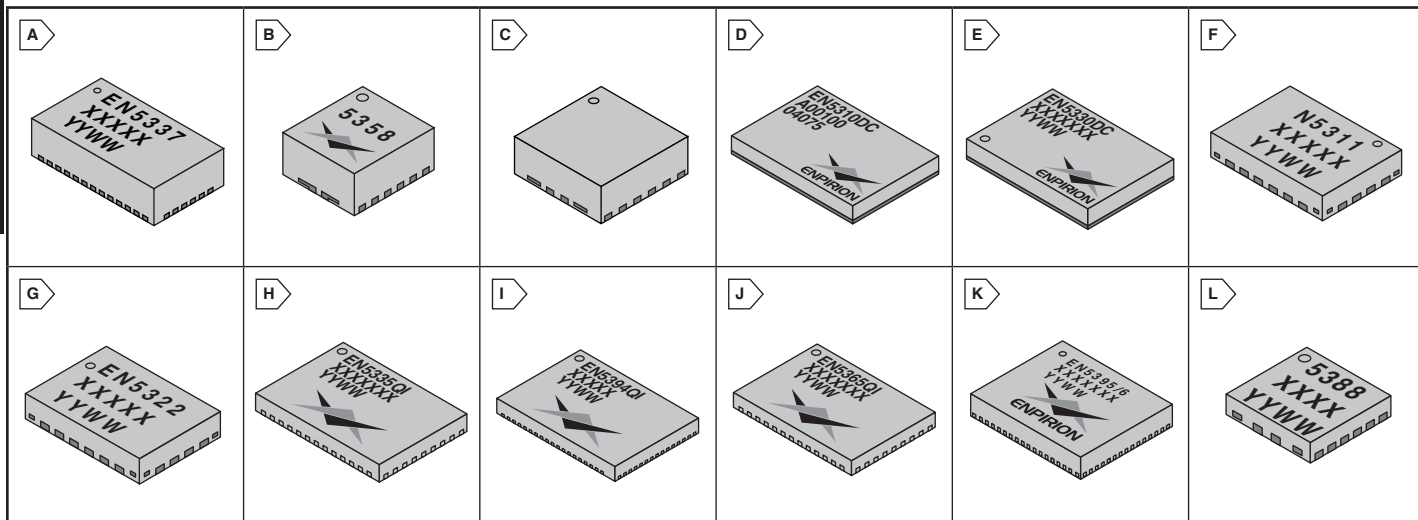
# ENPIRION DC-DC Converters

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Power Management

Enpirion



Enpirion is a provider of highly integrated power management solutions, and leverages advances in Power Semiconductor Devices and CMOS-compatible Magnetics to deliver the world's first complete DC-DC conversion in an IC package. Enpirion solutions reduce footprint by up to 70%, reduce parts count by as much as 60%, and dramatically ease the design constraints associated with switch-mode DC-DC converters.

Enpirion makes the industry's smallest Power System on Silicon (PSoS) - the first ultra-integrated all-silicon DC-to-DC converter, and the first to feature an integrated inductor. Enpirion's patented approach capitalizes on semiconductor geometry advances that enable a 10x switching-frequency improvement - integrating a PWM controller, power FETs, compensation circuitry, and magnetic components into a single turnkey IC package.

Enpirion manufactures a growing line of Switch-mode DC-DC converters with integrated inductor. Integration of the inductor sets Enpirion products apart from the competition. The layout and placement of the inductor is one of the most common reasons for power IC related failures. Enpirion solves this problem, reduces foot print, reduces part count, and reduces noise associated with switch-mode power conversion. Applications include high volume consumer products such as mobile phones, portable game players, MP3 and personal media players, as well as data networking, telecoms, user terminal equipment such as set top box, and of course notebook and desktop PC.

## ENPIRION DC-DC BUCK (STEP-DOWN) CONVERTER



RoHS Compliant For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Enpirion Part No.	Fig.	Package	Dimensions: mm	Switching Frequency (MHz)	Input (VDC)	Output (VDC)	Max. Continuous Load (A)	Price Each			
									1	25	50	100
884-EN5337QI	EN5337QI	A	QFN-38	4 x 7 X 1.85	5	2.375-5.5	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	3A	3.50	3.43	3.34	2.72
884-EP5358LUI	EP5358LUI	B	QFN-16	2.5 x 2.25 x 1.1	5	2.4-5.5	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	600mA	1.82	1.79	1.74	1.41
884-EP53A8HQI	EP53A8HQI	C	QFN-16	3 x 3 x 1.1	5	2.4-5.5	3.3 V	1000mA	2.39	2.29	2.13	1.91
884-EP5358HUI	EP5358HUI	B	QFN-16	2.5 x 2.25 x 1.1	5	2.4-5.5	1.8-3.3	600mA	1.82	1.79	1.74	1.41
884-EP53A8LQI	EP53A8LQI	C	QFN-16	3 x 3 x 1.1	5	0.3 - 6	3.3	1000mA	2.39	2.29	2.13	1.91

## ENPIRION DC-DC CONVERTER / SWITCHER - POL PRODUCTS



RoHS Compliant For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Enpirion Part No.	Fig.	Package	Dimensions: mm	Switching Frequency (MHz)	Input (VDC)	Output (VDC)	Max. Continuous Load (A)	Price Each			
									1	25	50	100
884-EN5310DC	EN5310DC	D	DFN-36	8.1 x 12.5 x 2.2	5	2.375-5.5	0.8-3.3	1.0	4.48	4.33	4.12	3.88
884-EN5330DC	EN5330DC	E	DFN-36	8.1 x 12.5 x 2.2	5	2.375-5.5	0.8-3.3	3.0	5.50	5.30	5.05	4.75
884-EN5311QI	EN5311QI	F	QFN-20	4 x 5 x 1.1	5	2.4-5.5	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	1.0	2.32	2.20	2.05	1.86
884-EN5312QI	EN5312QI	F	QFN-20	4 x 5 x 1.1	4	2.4-5.5	0.8-3.3	1.0	2.70	2.65	2.60	2.21
884-EN5322QI-T	EN5322QI	G	QFN-24	4 x 6 x 1.1	4	2.4-5.5	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	2.0	4.26	4.20	4.00	3.50
884-EN5335QI	EN5335QI	H	QFN-44	7.5 x 10 x 1.85	5	2.375-5.5	0.8-3.3	3.0	5.61	5.51	5.41	4.59
884-EN5336QI	EN5336QI	H	QFN-44	7.5 x 10 x 1.85	5	2.375-5.5	0.8-3.3	3.0	5.61	5.51	5.41	4.59
884-EN5364QI	EN5364QI	I	QFN-68	8 x 11 x 1.85	4	2.375-6.6	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	6.0	7.88	7.09	6.30	5.91
884-EN5365QI	EN5365QI	J	QFN-58	10 x 12 x 1.85	5	2.375-5.5	0.8-3.3	6.0	6.60	5.88	5.25	4.65
884-EN5366QI	EN5366QI	J	QFN-58	10 x 12 x 1.85	5	2.375-5.5	0.8-3.3	6.0	8.33	7.87	7.27	6.67
884-EN5394QI	EN5394QI	I	QFN-68	8 x 11 x 1.85	4	2.375-6.6	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	6.0	9.80	8.82	7.84	7.35
884-EN5395QI	EN5395QI	K	QFN-16	10 x 12 x 1.85	5	2.375-5.5	0.75 to V <sub>IN</sub> -V <sub>D</sub>	9.0	10.78	9.48	8.43	7.37
884-EN5396QI	EN5396QI	K	QFN-58	10 x 12 x 1.85	5	2.375-5.5	0.75 to V <sub>IN</sub> -V <sub>D</sub>	9.0	10.64	10.10	9.41	8.54

## ENPIRION DC-DC CONVERTER / SWITCHER - LOW POWER PRODUCTS (MOBILE)



RoHS Compliant For quantities of 250 and up, call for quote.

MOUSER STOCK NO.	Enpirion Part No.	Fig.	Package	Dimensions: mm	Switching Frequency (MHz)	Input (VDC)	Output (VDC)	Max. Continuous Load (A)	Price Each			
									1	25	50	100
884-EP5352QI	EP5352QI	F	QFN-20	4 x 5 x 1.1	5	2.4-5.5	0.6-3.3	0.5	2.15	2.07	1.89	1.65
884-EP5362QI	EP5362QI	F	QFN-20	4 x 5 x 1.1	5	2.4-5.5	0.6-3.3	0.6	2.31	2.27	2.23	1.89
884-EP5382QI	EP5382QI	F	QFN-20	4 x 5 x 1.1	5	2.4-5.5	0.6-3.3	0.8	2.50	2.46	2.41	2.05
884-EP5368QI	EP5368QI	L	QFN-16	3 x 3 x 1.1	4	2.4-5.5	0.603 to V <sub>IN</sub> -0.4V	0.7	1.84	1.80	1.76	1.51
884-EP5388QI	EP5388QI	L	QFN-16	3 x 3 x 1.1	4	2.4-5.5	0.6 to V <sub>IN</sub> -0.36V <sub>D</sub>	0.8	1.98	1.93	1.89	1.62

## ENPIRION EVALUATION BOARDS

MOUSER STOCK NO.	Enpirion Part No.	Input (VDC)	Switching Frequency (MHz)	Output (VDC)	Max. Current Out	Price Each
884-EN5364QI-E	EN5364QI-E	2.375-6.6	4	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	6.0	63.21
884-EN5394QI-E	EN5394QI-E	2.375-6.6	4	0.6 to V <sub>IN</sub> -V <sub>DO</sub>	6.0	63.21
884-EP5352QI-E	EP5352QI-E	2.4-5.5	5	0.6-3.3	0.5	54.99
884-EP5362QI-E	EP5362QI-E	2.4-5.5	5	0.6-3.3	0.6	54.99
884-EP5382QI-E	EP5382QI-E	2.4-5.5	5	0.6-3.3	0.8	54.99