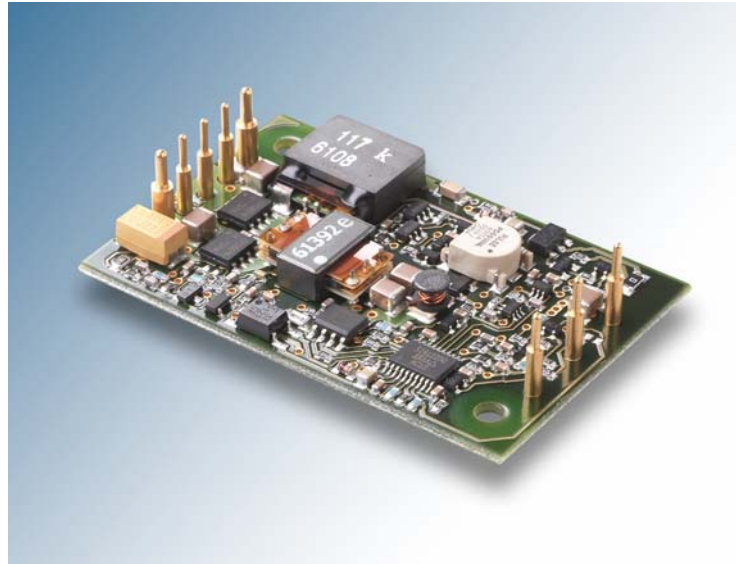


DC/DC converters

Input 18-36, 36-75 Vdc
Output up to 20A/50W

Key Features

- Industry standard Quarter-brick
57.9 x 36.8 x 8.5 mm
(2.28 x 1.45 x 0.33 in)
- Low profile, max 8.5 mm (0.33 in), and
cost efficient open frame design
- Designed according to the EU RoHS
directive (Restriction of Hazardous
Substances).
- High efficiency, typ. 90 % at 3.3 Vout
half load
- 1500 VDC input to output isolation,
designed to meet isolation requirements
equivalent to Basic Insulation according
to IEC/EN/UL 60950
- More than 7.0 million hours predicted
MTBF at 40° C ambient.



The PKM 2000E and 4000E series of high efficiency DC/DC converters are designed to provide high quality on-board power solutions in distributed power architectures used in Internetworking equipment in wireless and wired communications applications. The PKM 2000E and 4000E series have industry standard quarter brick footprint and pin-out and are only 8.5 mm (0.33 in) high. This makes them extremely well suited for narrow board pitch applications with board spacing down to 15 mm (0.6 in). The product series use patented synchronous rectification technology and achieves an efficiency up to 89% at full load. Ericsson's PKM 2000E and

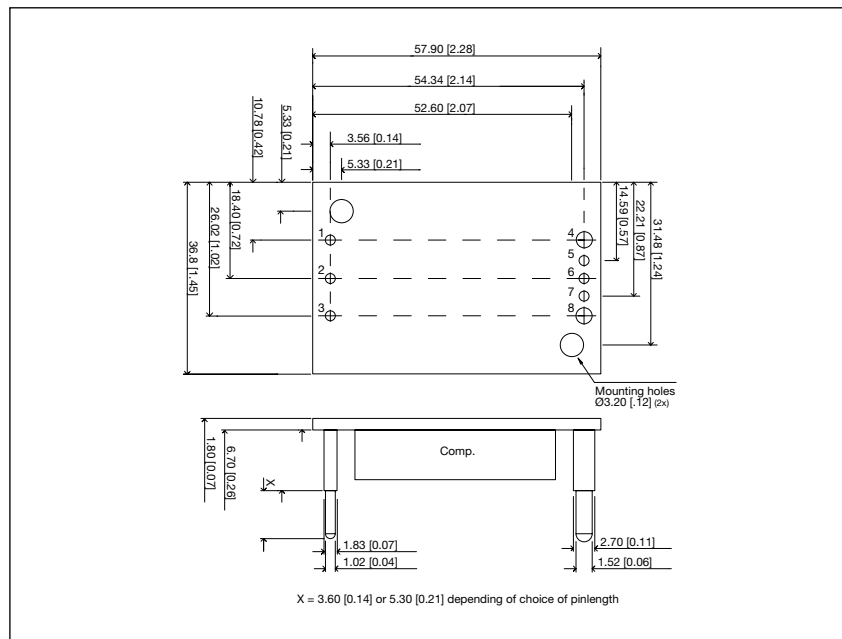
4000E series address both the industrial and the emerging telecom market for applications in the multi-service network by specifying the input voltage range in accordance with ETSI specifications. Included as standard features are output over-voltage protection, input under-voltage protection, over temperature protection, monotonic raise, output short circuit protection, remote sense, remote control, and output voltage adjust function. These converters are designed to meet high reliability requirements and are manufactured in highly automated manufacturing lines and meet world-class quality levels. Ericsson Power Modules is an ISO 9001/14001 certified supplier.

Product Program

Input Voltage	Output Voltage	Output Current	Output Power	Part No.	Comment
18-36 V	3.3 V	15 A	50 W	PKM 2510E PI	samples available
	5 V	10 A	50 W	PKM 2511E PI	1)
	12 V	4.2 A	50 W	PKM 2513E PI	1)
	15 V	3.3 A	50 W	PKM 2515E PI	1)
36-75 V	1.2 V	20 A	24 W	PKM 4218LE PI	1)
	1.5 V	20 A	30 W	PKM 4318HE PI	1)
	1.8 V	20 A	36 W	PKM 4318GE PI	1)
	2.5 V	15 A	37,5 W	PKM 4319E PI	1)
	3.3 V	15 A	50 W	PKM 4510E PI	samples available
	5 V	10 A	50 W	PKM 4511E PI	1)
	12 V	4.2 A	50 W	PKM 4513E PI	1)
	15 V	3.3 A	50 W	PKM 4515E PI	1)

1) Preliminary product code. Please contact your local sales office for information.

Mechanical data



Connections

Pin	Designation	Function
1	- In	Negative input
2	RC	Remote control. To turn-on and turn-off
3	+ In	Positive input
4	- Out	Negative output
5	- Sen	Negative remote sense
6	V _{adj}	Output voltage adjust
7	+ Sen	Positive remote sense
8	+ Out	Positive output

New Product Overview is intended for discussion to determine interest and requirements. Information provided is believed to be accurate and reliable. Ericsson Power Modules makes no commitment to sample or manufacture for sale these products and reserves the right to make changes to the product, or information contained herein, without notice

Ericsson Power Modules

SE-141 75 Kungens Kurva, Sweden
Telephone: +46 8 568 69620

For local sales contacts, please refer to our website
www.ericsson.com/powermodules
 or call: Int +46 8 568 69620, Fax: +46 8 568 69599

Americas

Ericsson Inc., Power Modules
+1-972-583-5254, +1-972-583-6910

Asia/Pacific

Ericsson Ltd.
+852-2590-2453

New Product Overview

EN/LZT 146 046 R1B
© Ericsson Power Modules AB, February 2004