

DC/DC converters up to 30 A/78 W 48 V input

Key Features

- High Efficiency: 94% at full load
- Low profile 58 x 19.94 mm (2.28 x 0.785 In.) package
- Pin compatible with Industry-standard quarter brick
- 2,250 V dc isolation and meets isolation requirements equivalent to Basic Insulation according to IEC/EN/UL 60950
- Fast Dynamic Response, $t_{tr} = 50 \mu s$
- More than 3.7 million hours predicted MTBF
- Monotonic rise



The PKB 4000 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 PKB 4000 series has the same pinout as an industry standard quarter brick but only occupies approximately half the footprint. This makes it extremely well suited for limited board space applications. The PKB Series uses patented synchronous rectification technology and achieves an efficiency up to 94% at full load. The series is available in non-baseplated and baseplated versions. Ericsson's PKB 4000 series addresses 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 over-voltage protection, under-voltage protection, over temperature protection, soft-start, short circuit protection, remote sense, remote on/off, and industry standard output trim adjustment. The PKB 4000 Series also offers the flexibility of using a baseplate as well as an optional heatsink when needed, enabling reduced airflow, higher reliability, and higher ambient temperature operation.

These converters 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
36-75 V	1.2 V	30 A	36 W	PKB 4318 PIOBNB	1)
	1.5 V	28 A	42 W	PKB 4418 PIOANB	1)
	1.8 V	25 A	45 W	PKB 4418 PINB	samples available
	2.5 V	25 A	63 W	PKB 4619 PINB	samples available
	3.3 V	20 A	66 W	PKB 4610 PINB	samples available
	5.0 V	15 A	75 W	PKB 4711 PINB	samples available
	6.5 V	12 A	78 W	PKB 4717 PINB	1)
	12 V	6 A	72 W	PKB 4713 PINB	samples available
	15 V	4 A	60 W	PKB 4615 PINB	1)

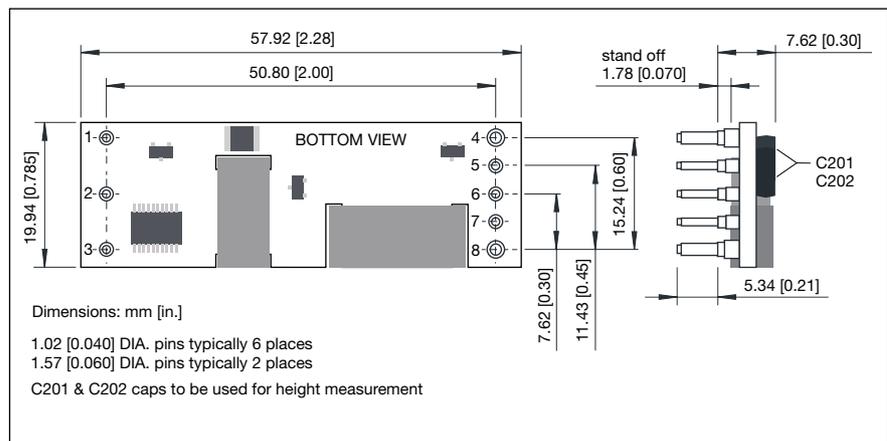
1) Preliminary product code, available on request.

NB = No Baseplate

Connections

Pin	Designation	Function
1	-In	Negative Input
2	RC	Remote Control
3	+In	Positive Input
4	-Out	Negative Output
5	-Sen	Negative Sense
6	Vadj	Output voltage adjust
7	+Sen	Positive Sense
8	+Out	Positive Output

Mechanical data



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.

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New Product Overview

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