

DC/DC converters up to 20A / 50W 48 V Input

Key Features

- 50 W output power
- Surface mountable
- Efficiency typ. 90 % at 3.3V out
- Meets lead-free soldering process (260 °C)
- Low profile, 7.5 mm (0.295 in.)
- Negative or Positive Remote Control
- Remote sense



The PKD 4000 SI series of DC/DC power modules are intended to be used as distributed power sources in decentralized 48/60VDC power systems. The PKD series uses a ceramic substrate with thickfilm technology and a high degree of silicon integration. That, together with the electrical design using synchronous rectification gives good thermal management, high reliability and high efficiency.

The high efficiency makes it possible to operate over a wide temperature range without a heatsink. Excellent thermal management is also achieved through the use

of the ceramic substrate and a lead-frame with a large amount of pin connections to the board. The high reliability and the low profile of the PKD series makes them particularly suited for Information Technology and Telecom (IT&T) applications with board spacing down to 15mm (0.6 in.).

These products are manufactured using highly automated manufacturing lines with a world-class quality commitment and a five-year warranty.

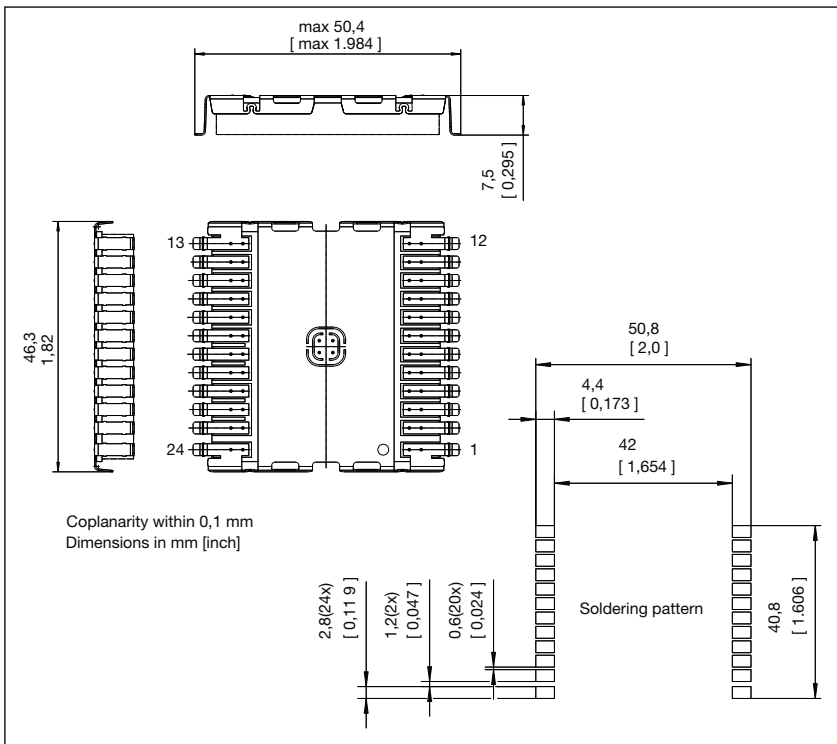
Ericsson Power Modules AB is an ISO 9001/14001 certified supplier.

Product Program

Input Voltage	Output Voltage	Output Current	Output Power	Part No.	Comment
36-75 V	1.0 V	20 A	20 W	PKD 4218N SI	1)
	1.2 V	20 A	24 W	PKD 4218L ASI	1)
	1.5 V	20 A	30 W	PKD 4318H ASI	1)
	1.8 V	20 A	36 W	PKD 4318G ASI	1)
	2.5 V	15 A	38 W	PKD 4319 ASI	1)
	3.3 V	15 A	50 W	PKD 4510 ASI	samples available
	5 V	10 A	50 W	PKD 4511 ASI	1)

1) Preliminary product code, samples available on request

Mechanical data



Connections

Pin	Symbol	Description
2	+In	Positive input
3	-In	Negative input
5	RC	Remote control pin
6	RC logic	Select pin for neg/pos RC ²⁾
15	+Sen	Positive remote sense
16	Vadj	Output voltage adjust
17	-Sen	Negative remote sense
18-20	-Out	Negative output
21-23	+Out	Positive output
1,12,13,24 Case connection ¹⁾		
4,7-11,14 Not connected		

¹⁾ Case is floating and may be connected either to +V_{In} ; -V_{In} ; +V_{Out} ; -V_{Out} to optimize EMI performance.

²⁾ Connect to -In for negative logic or leave open for positive logic on RC pin.

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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