



# 1.0 WATT SIP MINIATURE DC/DC CONVERTERS

**Unregulated, 4000Vdc Isolation, Single & Dual Output**

## GENERAL SPECIFICATIONS

- \* Efficiency ..... 68% Min.
- \* Short Circuit Protection.....1.0 Second.
- \* Isolation Voltage ..... 4000Vdc min.
- \* Operating Temperature .....-40 to +85°C.
- \* Storage Temperature .....-55 to +125°C.
- \* Isolation Capacitance .....60pF Typ.
- \* Isolation Resistance .....15GOhm.

## INPUT SPECIFICATIONS

- \* Voltage ..... Per Table Vdc
- \* Voltage Range ..... ±10%
- \* Input Filter ..... Cap

## OUTPUT SPECIFICATIONS

- \* Voltage ..... Per Table
- \* Voltage Accuracy ..... ±5%
- \* Ripple & Noise 20MHz BW ..... 50mV p-p
- \* Line Regulation 3.3V, 5V..... 1.3%/1% of Vin
- \* Line Regulation 9V,12V&15V,24V 1.3%/1% of Vin
- \* Load Regulation .....10 to 100%  
3.3V, 5V Output.....15 % Max  
9V, 12V, 15V, 24V.....10 % Max

**ELECTRICAL SPECIFICATIONS AT 25°C - OPERATING TEMPERATURE RANGE -40°C TO +85°C**

PART NUMBER	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)
PDCS10121	1.8	1.8	555
PDCS10122	3.3	1.8	555
PDCS10123	5	1.8	555
PDCS10124	9	1.8	555
PDCS10125	12	1.8	555
PDCS10126	15	1.8	555
PDCS10127	24	1.8	555
PDCS10128	1.8	3.3	300
PDCS10129	3.3	3.3	300
PDCS10130	5	3.3	300
PDCS10131	9	3.3	300
PDCS10132	12	3.3	300
PDCS10133	15	3.3	300
PDCS10134	24	3.3	300
PDCS10135	1.8	5	200
PDCS10136	3.3	5	200
PDCS10137	5	5	200
PDCS10138	9	5	200
PDCS10139	12	5	200
PDCS10140	15	5	200
PDCS10141	24	5	200
PDCS10142	1.8	9	111
PDCS10143	3.3	9	111
PDCS10144	5	9	111
PDCS10145	9	9	111
PDCS10146	12	9	111
PDCS10147	15	9	111
PDCS10148	24	9	111

PART NUMBER	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)
PDCS10149	1.8	12	84
PDCS10150	3.3	12	84
PDCS10151	5	12	84
PDCS10152	9	12	84
PDCS10153	12	12	84
PDCS10154	15	12	84
PDCS10155	24	12	84
PDCS10156	1.8	15	66
PDCS10157	3.3	15	66
PDCS10158	5	15	66
PDCS10159	9	15	66
PDCS10160	12	15	66
PDCS10161	15	15	66
PDCS10162	24	15	66
PDCS10163	1.8	24	42
PDCS10164	3.3	24	42
PDCS10165	5	24	42
PDCS10166	9	24	42
PDCS10167	12	24	42
PDCS10168	15	24	42
PDCS10169	24	24	42

Specifications subject to change without notice.

PDCS010xx 10/13



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PART NUMBER	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)
PDCD10121	1.8	±1.8	±278
PDCD10122	3.3	±1.8	±278
PDCD10123	5	±1.8	±278
PDCD10124	9	±1.8	±278
PDCD10125	12	±1.8	±278
PDCD10126	15	±1.8	±278
PDCD10127	24	±1.8	±278
PDCD10128	1.8	±3.3	±152
PDCD10129	3.3	±3.3	±152
PDCD10130	5	±3.3	±152
PDCD10131	9	±3.3	±152
PDCD10132	12	±3.3	±152
PDCD10133	15	±3.3	±152
PDCD10134	24	±3.3	±152
PDCD10135	1.8	±5	±100
PDCD10136	3.3	±5	±100
PDCD10137	5	±5	±100
PDCD10138	9	±5	±100
PDCD10139	12	±5	±100
PDCD10140	15	±5	±100
PDCD10141	24	±5	±100
PDCD10142	1.8	±9	±55
PDCD10143	3.3	±9	±55
PDCD10144	5	±9	±55
PDCD10145	9	±9	±55
PDCD10146	12	±9	±55
PDCD10147	15	±9	±55
PDCD10148	24	±9	±55

PART NUMBER	INPUT VOLTAGE (Vdc)	OUTPUT VOLTAGE (Vdc)	OUTPUT CURRENT (mA max.)
PDCD10149	1.8	±12	±42
PDCD10150	3.3	±12	±42
PDCD10151	5	±12	±42
PDCD10151	9	±12	±42
PDCD10153	12	±12	±42
PDCD10154	15	±12	±42
PDCD10155	24	±12	±42
PDCD10156	1.8	±15	±33
PDCD10157	3.3	±15	±33
PDCD10158	5	±15	±33
PDCD10159	9	±15	±33
PDCD10160	12	±15	±33
PDCD10161	15	±15	±33
PDCD10162	24	±15	±33
PDCD10163	1.8	±24	±33
PDCD10164	3.3	±24	±33
PDCD10165	5	±24	±33
PDCD10166	9	±24	±33
PDCD10167	12	±24	±33
PDCD10168	15	±24	±33
PDCD10169	24	±24	±33

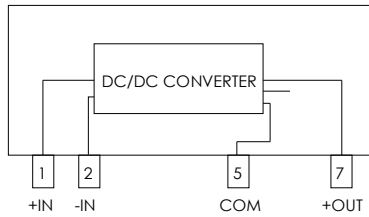
PIN NUMBER	SINGLE OUTPUT	DUAL OUTPUT
1	+INPUT	+INPUT
2	-INPUT	-INPUT
5	-Vout	-Vout
6	NO PIN	COM
7	+Vout	+Vout

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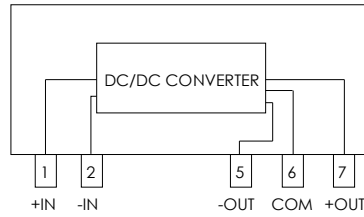
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## SCHEMATIC

### SINGLE



### DUAL



## PACKAGE 01XXX

## PHYSICAL DIMENSIONS DIMENSIONS IN inches (mm)

