

# 68D5 – SERIES

## WIDE INPUT VOLTAGE RANGE 5-6 WATT DC-DC CONVERTER

### FEATURES

- 2:1 wide Input voltage: 9-18V, 18-36V, 36-72V
- 5-6 WATT 24 pin DIL (1.25 x 0.8 x 0.4 inches) package.
- Efficiency to 82%
- PI input filter



### GENERAL SPECIFICATIONS

Switching frequency	: 100KHz TYP.
Output ripple and noise	: 100mVp-p (20MHz B.W.)
Isolation voltage	: 500VDC
Isolation resistance	: 10 <sup>9</sup> ohms
Storage temperature range	: -40°C to 100°C
Operating temperature range	: -25°C to +71°C
Short circuit protection	: Continuous
Case material	: Black coated copper with Non-conductive base

### ELECTRICAL SPECIFICATIONS

Input temperature range	: 12V nominal ...9-18V : 24V nominal ...18-36V : 48V nominal ...36-72V
Output temperature accuracy	: ±2%
Line regulation	: ±0.5%
Load regulation (Single)	: ±0.5% (F.L. to 10% Load)
Load regulation (Dual)	: ±1.0% (F.L. to 1 / 4 Load)
Efficiency	: see table

Part Number	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Current (mA)		Efficiency (%)
				No Load	Full Load	
68D5-12S03R	9-18	3.3	1000	7.5	405	68
68D5-12S05R	9-18	5	1000	7.5	545	76
68D5-12S12R	9-18	12	470	7.5	585	80
68D5-12S15R	9-18	15	400	7.5	625	80
68D5-12D05R	9-18	±5	±500	12000	545	76
68D5-12D12R	9-18	±12	±230	12000	575	80
68D5-12D15R	9-18	±15	±190	12000	590	80
68D5-24S03R	18-36	3.3	1000	5	195	70
68D5-24S05R	18-36	5	1000	5	265	78
68D5-24S12R	18-36	12	470	5	285	82
68D5-24S15R	18-36	15	400	5	305	82
68D5-24D05R	18-36	±5	±500	7.5	265	78
68D5-24D12R	18-36	±12	±230	7.5	285	81
68D5-24D15R	18-36	±15	±190	7.5	295	81
68D5-48S03R	36-72	3.3	1000	2	98	70
68D5-48S05R	36-72	5	1000	2	133	78
68D5-48S12R	36-72	12	470	2	145	81
68D5-48S15R	36-72	15	400	2	154	81
68D5-48D05R	36-72	±5	±500	3	265	78
68D5-48D12R	36-72	±12	±230	3	142	81

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### PIN CONNECTION

PIN	SINGLE	DUAL
2, 3	-INPUT	-INPUT
9	NC	COMMON
11	NC	-OUTPUT
14	+OUTPUT	+OUTPUT
16	-OUTPUT	COMMON
22, 23	+INPUT	+INPUT

### MARKING AND DIMENSION

Dimensions: inches/mm unless otherwise specified, all tolerances are  $\pm 0.05/\pm 0.13$

