

68D1 – SERIES

WIDE INPUT VOLTAGE RANGE 3 WATT DC-DC CONVERTER

FEATURES

- 2:1 wide Input voltage: 9-18V, 18-36V, 36-72V
- 3 WATT 24 pin DIL (1.25 x 0.8 x 0.4 inches) package.
- Efficiency to 80%
- PI input filter



GENERAL SPECIFICATIONS

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

ELECTRICAL SPECIFICATIONS

Input voltage range	: 12V nominal ...9-18V : 24V nominal ...18-36V : 48V nominal ...36-72V
Output voltage accuracy	: ±2%
Line regulation	: ±0.5%
Load regulation (Single)	: ±0.5%
Load regulation (Dual)	: ±2%
Efficiency	: see table

Part Number	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
68D1-12S05R	9-18	5	500	74
68D1-12S12R	9-18	12	250	79
68D1-12S15R	9-18	15	200	79
68D1-12D05R	9-18	±5	±250	74
68D1-12D12R	9-18	±12	±125	76
68D1-12D15R	9-18	±15	±100	76
68D1-24S05R	18-36	5	500	74
68D1-24S12R	18-36	12	250	79
68D1-24S15R	18-36	15	200	79
68D1-24D05R	18-36	±5	±250	74
68D1-24D12R	18-36	±12	±125	79
68D1-24D15R	18-36	±15	±100	79
68D1-48S05R	36-72	5	500	74
68D1-48S12R	36-72	12	250	79
68D1-48S15R	36-72	15	200	78
68D1-48D05R	36-72	±5	±250	74
68D1-48D12R	36-72	±12	±125	79
68D1-48D15R	36-72	±15	±100	79

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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 $\pm 0.05/\pm 0.13$

