

# 61D – SERIES

## WIDE INPUT VOLTAGE RANGE 10 WATT DC-DC CONVERTER

### FEATURES

- 2:1 wide Input voltage: 9-18V, 18-36V, 36-72V
- 10 WATT (2 x 1 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	: 1500VDC
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 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
EMI/RFI	: six-sided continuous shield

Part Number.	Input Voltage Range (VDC)	Output Voltage (VDC)	Output Current (mA)	Efficiency (%)
61D-12S05R	9-18	5	2000	79
61D-12S12R	9-18	12	830	82
61D-12S15R	9-18	15	670	82
61D-12D12R	9-18	±12	±416	81
61D-12D15R	9-18	±15	±333	81
61D-24S05R	18-36	5	2000	81
61D-24S12R	18-36	12	830	84
61D-24S15R	18-36	15	670	84
61D-24D12R	18-36	±12	±416	82
61D-24D15R	18-36	±15	±333	82
61D-48S05R	36-72	5	2000	82
61D-48S12R	36-72	12	830	86
61D-48S15R	36-72	15	670	86
61D-48D12R	36-72	±12	±416	84
61D-48D15R	36-72	±15	±333	84

### PIN CONNECTION

PIN	SINGLE	DUAL
1	+INPUT	+INPUT
2	-INPUT	-INPUT
3	+OUTPUT	+OUTPUT
4	NO PIN	COMMON
5	-OUTPUT	-OUTPUT

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### MARKING AND DIMENSION

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

