

**MMI**

---

**DC/DC CONVERTER  
10W**

---



# 61D SERIES

## WIDE INPUT VOLTAGE RANGE

## 10 WATTS DC-DC CONVERTER

### FEATURES

- 2:1 WIDE INPUT VOLTAGES:9-18V,18-36V,36-72V
- 10 WATTS (2x1x0.4inches) PACKAGE
- EFFICIENCY TO 80%
- P1 INPUT FILTER



### GENERAL SPECIFICATIONS

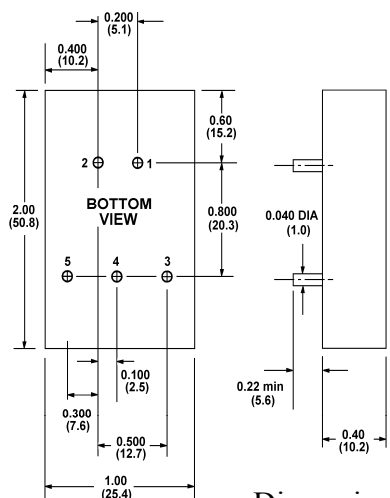
- SWITCHING FREQUENCY : 100KHz TYP.
- OUTPUT RIPPLE & NOISE : 100mVp-p(20MHz B.W.)
- ISOLATION VOLTAGE : 1500VDC
- ISOLATION RESISTANCE :  $10^9$  ohms
- STORAGE TEMPERATURE RANGE : -40°C TO 100°C
- OPERATING TEMPERATURE RANGE : -25°C TO +71°C
- SHORT CIRCUIT PROTECTION : CONTINUOUS
- CASE MATERIAL : 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 :  $\pm 2\%$
- LINE REGULATION :  $\pm 0.5\%$
- LOAD REGULATION(SINGLE) :  $\pm 0.5\%$
- LOAD REGULATION(DUAL) :  $\pm 2\%$
- EFFICIENCY : see table
- EMI/RFI : six-sided continuous shield

PART NO.	INPUT RANGE	OUTPUT VOLTAGE	OUTPUT CURRENT	EFFICIENCY (%)
61D-12S05R	9-18VDC	5VDC	2000mA	79
61D-12S12R	9-18VDC	12VDC	830mA	82
61D-12S15R	9-18VDC	15VDC	670mA	82
61D-12D12R	9-18VDC	$\pm 12$ VDC	$\pm 416$ mA	81
61D-12D15R	9-18VDC	$\pm 15$ VDC	$\pm 333$ mA	81
61D-24S05R	18-36VDC	5VDC	2000mA	81
61D-24S12R	18-36VDC	12VDC	830mA	84
61D-24S15R	18-36VDC	15VDC	670mA	84
61D-24D12R	18-36VDC	$\pm 12$ VDC	$\pm 416$ mA	82
61D-24D15R	18-36VDC	$\pm 15$ VDC	$\pm 333$ mA	82
61D-48S05R	36-72VDC	5VDC	2000mA	82
61D-48S12R	36-72VDC	12VDC	830mA	86
61D-48S15R	36-72VDC	15VDC	670mA	86
61D-48D12R	36-72VDC	$\pm 12$ VDC	$\pm 416$ mA	84
61D-48D15R	36-72VDC	$\pm 15$ VDC	$\pm 333$ mA	84

### MARKINGS AND DIMENSIONS



### PIN CONNECTION

PIN#	SINGLE	DUAL
1	+VIN	+VIN
2	-VIN	-VIN
3	+VOUT	+VOUT
4	No Pin	Common
5	-VOUT	-VOUT