

1 Watts SIP-7 Type Regulated DC - DC Converter



FEATURES

- ◆ 1W Regulated Output Power
- ◆ Low No Load Input Current
- ◆ Continuous Short Circuit Protection
- ◆ Isolation Voltage 1500VDC or 3000VDC
- ◆ Operating Temperature range -40 °C To +105 °C

SPECIFICATIONS

Input Voltage Range..... $\pm 10\%$ max.
 Surge Vol. (100ms max.).....5Vin:9Vdc/12Vin:18Vdc/24Vin:30Vdc
 Input Filter.....Internal Capacitor
 Protection.....Fuse recommended
 Voltage Accuracy..... $\pm 3\%$ max.
 Line Regulation¹..... $\pm 1.2\%$ max.
 Load Regulation²..... $\pm 15\%$ max.
 Ripple & Noise(20MHzBW)³.....75mVp-p max.
 Switching Frequency.....350KHz typ.
 Minimum Load.....10% of Full Load
 Short Circuit Protection.....Continuous, self recovery
 Isolation Voltage (I/P-O/P).....1.5K or 3KVDC
 Isolation Resistance.....1000M ohms/500VDC/25 °C/70% RH
 Isolation Capacitance.....50pF typ.
 Operating Temperature.....-40 °C To +105 °C
 Storage Temperature.....-55 °C To +125 °C
 Temperature Coefficient..... $\pm 0.05\%$ / °C
 Cooling.....Free-Air Convention
 Case Material.....Non-conductive plastic
 Case Temperature.....+115 °C max.
 Case Size.....19.6*6.1*10.2mm
 Weight.....2.1g Typ.

Note:

(1) High line to low line at rated load.

(2) Load Regulation is for output load current change from 10% to 100%.

(3) R & N are measured at 20MHz with 1uF ceramic capacitor connect to the output pins.

Model Number	Input Voltage (VDC)		Output Voltage (VDC)	Output Current (mA)	EFF. (%)	Capacitor Load (max.)
	Nominal	Range				
D01-00Nx	5	4.5~5.5	3.3	300	80	470uF
D01-01Nx	5	4.5~5.5	5	200	85	470uF
D01-01BNx	5	4.5~5.5	9	111	85	220uF
D01-02Nx	5	4.5~5.5	12	84	85	220uF
D01-03Nx	5	4.5~5.5	15	67	86	220uF
D01-09Nx	5	4.5~5.5	24	42	86	100uF
D01-04Nx	5	4.5~5.5	± 5	± 100	85	220uF
D01-04GNx	5	4.5~5.5	± 9	± 56	85	100uF
D01-05Nx	5	4.5~5.5	± 12	± 42	85	100uF
D01-06Nx	5	4.5~5.5	± 15	± 34	86	100uF
D01-60Nx	12	10.8~13.2	3.3	300	80	470uF
D01-61Nx	12	10.8~13.2	5	200	85	470uF
D01-61BNx	12	10.8~13.2	9	111	85	220uF
D01-62Nx	12	10.8~13.2	12	84	85	220uF
D01-63Nx	12	10.8~13.2	15	67	86	220uF
D01-69Nx	12	10.8~13.2	24	42	86	100uF
D01-64Nx	12	10.8~13.2	± 5	± 100	85	220uF
D01-64GNx	12	10.8~13.2	± 9	± 56	85	100uF
D01-65Nx	12	10.8~13.2	± 12	± 42	85	100uF
D01-66Nx	12	10.8~13.2	± 15	± 34	86	100uF
D01-70Nx	24	21.6~26.4	3.3	300	80	470uF
D01-71Nx	24	21.6~26.4	5	200	85	470uF
D01-71BNx	24	21.6~26.4	9	111	85	220uF
D01-72Nx	24	21.6~26.4	12	84	85	220uF
D01-73Nx	24	21.6~26.4	15	67	86	220uF
D01-79Nx	24	21.6~26.4	24	42	86	100uF
D01-74Nx	24	21.6~26.4	± 5	± 100	85	220uF
D01-74GNx	24	21.6~26.4	± 9	± 56	85	100uF
D01-75Nx	24	21.6~26.4	± 12	± 42	85	100uF
D01-76Nx	24	21.6~26.4	± 15	± 34	86	100uF

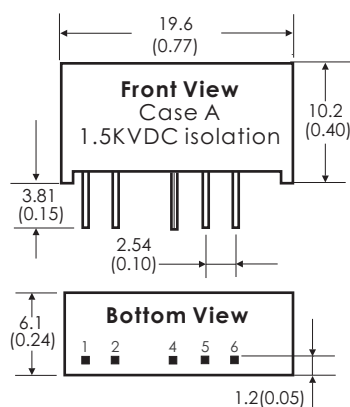
Remark:

* Efficiency and input current are measured at nominal input 5V, 12V and 24V @ full load.

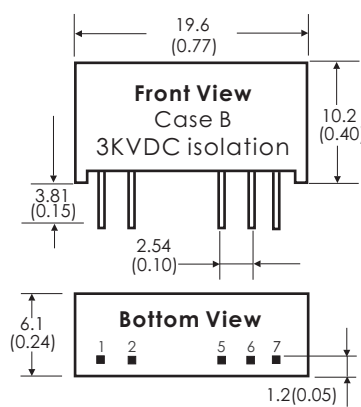
* Suffix x = blank (1.5KVDC, Case A)

* Suffix x = B3 (3KVDC, Case B)

MECHANICAL DRAWING [Unit: mm (inches)]



Case A Pin Connection		
Pin#	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
4	-Vout	-Vout
5	NP	Common
6	+Vout	+Vout



Case B Pin Connection		
Pin#	Single	Dual
1	+Vin	+Vin
2	-Vin	-Vin
5	-Vout	-Vout
6	NP	Common
7	+Vout	+Vout

