

5 Watts Wide Input Range DC - DC Converter

FEATURES

- ◆ 5W DIP PACKAGE
- ◆ 100% BURN-IN
- ◆ INDUSTRY STANDARD PACKAGE
- ◆ NO EXTERNAL COMPONENTS REQUIRED
- ◆ HIGH EFFICIENCY

SPECIFICATIONS

Input Voltage Range.....2:1 3:1 4:1 Input Range
Input Filter..... Pi Network
Voltage Accuracy..... $\pm 2\%$ max.
Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
Protection..... Fuse recommended
Ripple & Noise(20MHzBW).....100mVp-p max.
Line Regulation.....(HL-LL)..... $\pm 0.5\%$ max.
Load Regulation¹..... $\pm 0.5\%$ max.
Voltage Stability(24HR)..... $\pm 0.05\%$
Minimum Load.....10% of Full Load
Short Circuit Protection.....Continuous
Short Circuit Restart.....Automatic
Efficiency.....70% min.
Isolation Voltage².....1500 or 3000VDC
Isolation Resistance..... 10^9 ohms min.
Switching Frequency.....100KHz min.
Isolation Capacitance.....120pF max.
Operating Temperature.....-25 $^{\circ}\text{C}$ To +71 $^{\circ}\text{C}$
Storage Temperature.....-55 $^{\circ}\text{C}$ To +125 $^{\circ}\text{C}$
Case Material.....Six or Five-Side Shielded Case
Case Size.....50.8mm*25.4mm*11.2mm
Weight.....31.2g Typ.

Note:

- (1) Load Regulation is for output load current change from 10% to 100%
(2) 1500VDC for 10 seconds, 3000VDC for 3 seconds.

Model Number	Input Voltage	Output Voltage (VDC)	Output Current (mA)	EFF. Typ. %	Isolation (VDC)
Single Output Models					
D05-00 (A3)	See note	3.3	1500	70	1500/3000
D05-x1 (A3)	See note	5	1000	75	1500/3000
D05-x1B (A3)	See note	9	556	76	1500/3000
D05-x2 (A3)	See note	12	417	79	1500/3000
D05-x3 (A3)	See note	15	333	80	1500/3000
Dual Output Models					
D05-x4 (A3)	See note	5	500	75	1500/3000
D05-x5 (A3)	See note	12	208	77	1500/3000
D05-x6 (A3)	See note	15	167	74	1500/3000

Note:

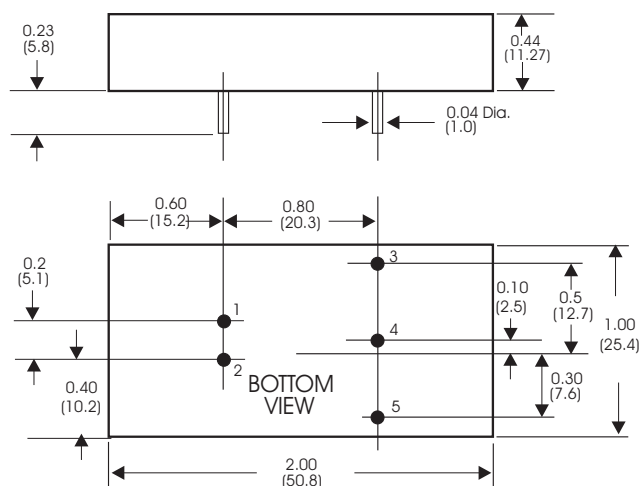
1. Input Voltage

- X=0, input 5VDC, Range 4.5-9VDC
X=1, input 12VDC, Range 9-18VDC
X=2, input 24VDC, Range 18-36VDC
X=3, input 48VDC, Range 36-72VDC
X=4, input 12VDC, Range 9-36VDC
X=4A, input 12VDC, Range 9-27VDC (for 1.5KV isolation only)
X=5, input 24VDC, Range 18-72VDC
X=5A, input 24VDC, Range 18-54VDC (for 1.5KV isolation only)

2. Model# D05-x4 available for 2:1 input Range only.

3. Suffix "(A3)" on model number for 3KV isolation

MECHANICAL DRAWING (Unit: inch(mm))



Pin Connection		
Pin#	Single	Dual
1	Vi+	Vi+
2	Vi-	Vi-
3	Vo+	Vo+
4	N.P.	Com.
5	Vo-	Vo-