

3 Watts SIP Type DC - DC Converter

FEATURES

- ◆ 3W Unregulated Output Power
- ◆ High Efficiency
- ◆ Internal Filtering
- ◆ SIP7 Package
- ◆ UL 94V-0 Potting Material
- ◆ 100% Burn In
- ◆ MTBF > 1,800,000 Hours
- ◆ 3 Years Warranty

SPECIFICATIONS

Input Voltage Range $\pm 10\%$ max.
 Input Filter.....Capacitor Type
 Voltage Set-Point Accuracy..... $\pm 2\%$ max.
 Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
 Ripple & Noise (20MHz BW).....100mVp-p max.
 Line Regulation¹..... $\pm 1.2\%$ max.
 Load Regulation²..... $\pm 8\%$ max.
 Minimum Load10% of full load
 Short Circuit Protection Momentary
 Efficiency..... 88% max.
 Isolation Voltage³..... 3000VDC min.
 Isolation Resistance..... $10^9 \Omega$ min.
 Switching Frequency..... 60KHz typ.
 Isolation Capacitance 80pF max.
 Operating Temperature -40°C To +85°C
 5Vout -40°C To +80°C
 Storage Temperature -55°C To +125°C
 Cooling..... Free-Air Convection
 Case Material..... Non-Conductive Plastic
 Case Size..... 19.6*7.5*10.2 mm
 Weight 2.9g
 Packing 25 pcs / tube ; 3250 pcs per carton

Note:

(1) Line Regulation is for 1.0% change in Input Voltage.

(2) Load Regulation is for output Load current change from 20% to 100%.

(3) 1500VDC for 10 seconds



Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. % (min.)
D03-x1	see note	5	600	82
D03-x1B	see note	9	333	85
D03-x2	see note	12	250	85
D03-x3	see note	15	200	86
D03-x4	see note	± 5	± 300	82
D03-x4G	see note	± 9	± 167	85
D03-x5	see note	± 12	± 125	85
D03-x6	see note	± 15	± 100	86

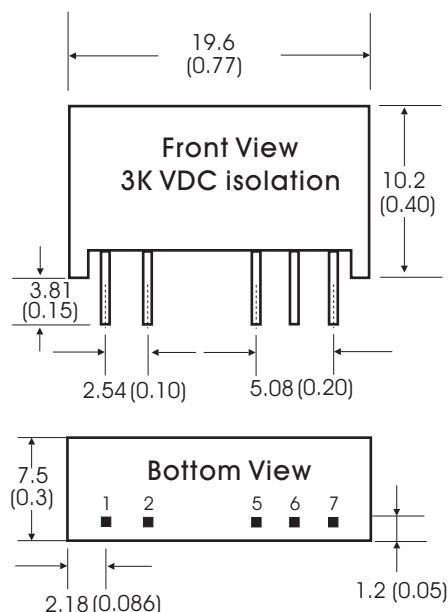
Note:

x=0, input 5VDC

x=6, input 12VDC

x=7, input 24VDC

MECHANICAL DRAWING (Unit: mm[inch])



Pin Connection

Pin#	Single	Dual
1	Vi+	Vi+
2	Vi-	Vi-
5	Vo-	Vo-
6	NP	Com.
7	Vo+	Vo+