

2 Watts SIP Type DC - DC Converter

FEATURES

- ◆ 2W Regulated Output Power
- ◆ High Efficiency
- ◆ MTBF > 400,000 Hours
- ◆ SIP8 Package
- ◆ 100% Burn In
- ◆ 3 Years Warranty

SPECIFICATIONS

Input Voltage Range 2:1 or 4:1
 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..... $\pm 0.5\%$ max.
 Load Regulation²..... $\pm 0.5\%$ max.
 Minimum Load20% of full load
 Short Circuit Protection Continuous
 Efficiency..... 72% min.
 Isolation Voltage³.....1500 or 3000VDC
 Isolation Resistance..... $10^9 \Omega$ min.
 Switching Frequency..... 100KHz min.
 Isolation Capacitance 80pF max.
 Operating Temperature -40°C To +85°C
 Storage Temperature -55°C To +105°C
 Cooling..... Free-Air Convection
 Case Material..... Non-Conductive Plastic
 Case Size..... 21.8*9.20*11.1 mm
 Weight 4.8 g
 Packing 23 pcs / tube ; 2300 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.)
DP02-01 (A3)	4.5-9	5	400	72
DP02-02 (A3)	4.5-9	12	150	75
DP02-03 (A3)	4.5-9	15	120	79
DP02-x1 (A3)	see note	5	400	76
DP02-x2 (A3)	see note	12	168	80
DP02-x3 (A3)	see note	15	133	80
DP02-x9 (A3)	see note	24	83	77
DP02-x4	see note	± 5	± 200	74
DP02-x5	see note	± 12	± 83	77
DP02-x6	see note	± 15	± 67	74
DP02-41 (A3)	9-36	5	400	74
DP02-42 (A3)	9-36	12	165	78
DP02-43 (A3)	9-36	15	133	78
DP02-49 (A3)	9-36	24	83	78
DP02-51 (A3)	18-75	5	400	74
DP02-52 (A3)	18-75	12	165	78
DP02-53 (A3)	18-75	15	133	78
DP02-59 (A3)	18-75	24	83	78

Remark:

Suffix "A3" for 3KVDC isolation

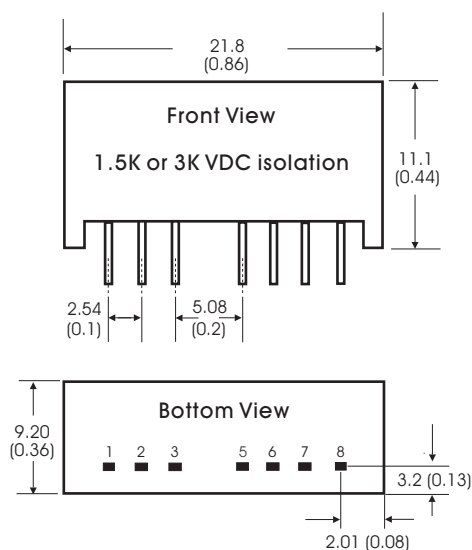
Note :

x = 1, input range 9-18VDC

x = 2, input range 18-36VDC

x = 3, input range 36-75VDC

MECHANICAL DRAWING (Unit: mm[inch])



Pin Connection

Pin#	Single	Dual
1	Vi-	Vi-
2	Vi+	Vi+
3	Remote	On/Off
5	NC	NC
6	Vo+	Vo+
7	Vo-	Com.
8	NC	Vo-