

3 Watts SIP Type DC - DC Converter

FEATURES

- ◆ 3W 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 Load 20% of full load
 Short Circuit Protection Continuous
 Efficiency..... 75% 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 $+71^{\circ}\text{C}$
 Storage Temperature -55°C To $+105^{\circ}\text{C}$
 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.)
DP03-01 (A3)	4.5-9	5	600	75
DP03-02 (A3)	4.5-9	12	250	77
DP03-03 (A3)	4.5-9	15	200	77
DP03-04	4.5-9	± 5	± 300	76
DP03-05	4.5-9	± 12	± 125	77
DP03-06	4.5-9	± 15	± 100	75
DP03-x1 (A3)	see note	5	600	74
DP03-x2 (A3)	see note	12	250	78
DP03-x3 (A3)	see note	15	200	81
DP03-x4	see note	± 5	± 300	77
DP03-x5	see note	± 12	± 125	78
DP03-x6	see note	± 15	± 100	78

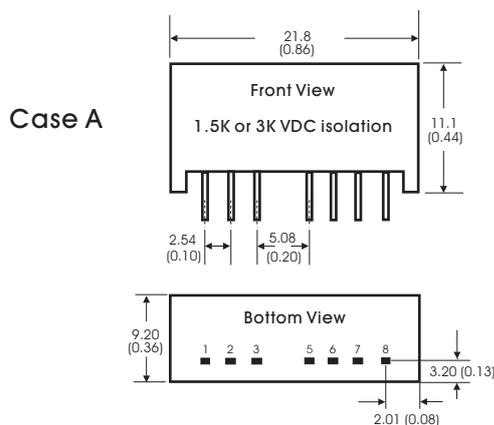
Remark:

Suffix "A3" for 3KVDC isolation

Note:

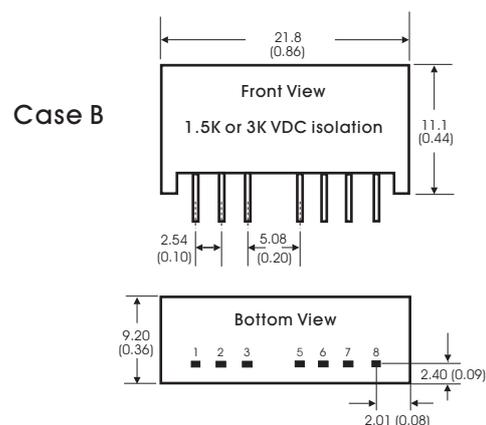
- 0=inputrange 4.5-9VDC (Case A)
 x=1, inputrange 9-18VDC (Case A)
 x=2, inputrange 18-36VDC (Case A)
 x=3, inputrange 36-75VDC (Case A)
 x=4, inputrange 9-36VDC (Case B)
 x=5, inputrange 18-75VDC (Case B)

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-



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