

30 Watts DIP Type Wide Input Range DC - DC Converter



FEATURES

- ◆ 9-18V,18-36V,36-72V,9-36V,18-72V Wide Input Range
- ◆ UL 94V-0 Package Material
- ◆ High Efficiency
- ◆ Industry Standard Package
- ◆ 100% Burn In

SPECIFICATIONS

Input Voltage Range.....	2:1 or 4:1 Input Range
Input Filter.....	Pi Network
Voltage Set Point Accuracy.....	±2% max.
Temperature Coefficient.....	+/-0.05°C
Ripple & Noise (20MHz BW).....	150mVp-p max.
Line Regulation ¹ : Single.....	±0.5% max.
Dual.....	±0.5% max.
Triple: 5V.....	±0.5% max.
12V/15V.....	±1% max.
Load Regulation ² : Single.....	±0.5% max.
Dual.....	±0.5% max.
Triple: 5V.....	±5% max.
Short Circuit Protection.....	Continuous
Over Voltage Protection.....	Built-in
External Trim Adj. Range.....	±10%
Efficiency.....	79% min.
Transient Response (Full to ½ Load).....	500 uS max.
Isolation Voltage ³	1500 VDC min.
Isolation Resistance.....	10 ⁹ ohms min.
Switching Frequency.....	100 KHz min.
Operating Temperature.....	-40°C to + 71°C
Storage Temperature	-55°C to +100°C
Cooling.....	Free-Air Convection
Case.....	Six-Side Shielded Case
Case Size.....	50.8 x 50.8 x 21 mm
Weight.....	110g Typ.

Note: (1) High Line to Low Line

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

(3) For 10 Seconds

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. %
D30-x1	See Note	5	5000	80
D30-x1B	See Note	9	3333	79
D30-x2	See Note	12	2500	81
D30-x3	See Note	15	2000	81
D30-x9	See Note	24	1250	81
D30-x4	See Note	±5	±2500	80
D30-x5	See Note	±12	±1250	80
D30-x6	See Note	±15	±1000	80
D30-x7	See Note	+5, ±12	3500, ±310	80
D30-x8	See Note	+5, ±15	3500, ±250	80

Note:

Input Voltage:

x=1, Input 12VDC, range: 9-18VDC

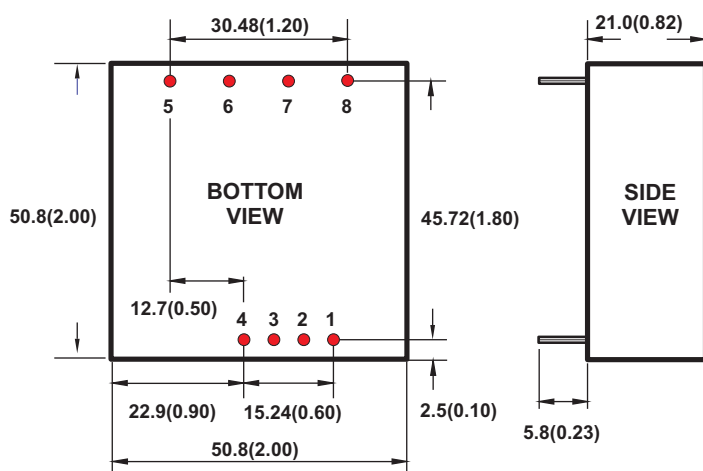
x=2, Input 24VDC, range:18-36VDC

x=3, Input 48VDC, range:36-72VDC

x=4, Input 12VDC, range: 9-36VDC

x=5. Input 24VDC, range: 18-72VDC

MECHANICAL DRAWING (Unit: mm (inch))



PIN	SINGLE	DUAL	TRIPLE
1	Remote On/Off		
2		NO PIN	
3	-Vin	-Vin	-Vin
4	+Vin	+Vin	+Vin
5	NC	+Vout	+Aux. out
6	+Vout	Common	+5V out
7	-Vout	-Vout	Common
8	TRIM	TRIM	-Aux. out

Remote On/Off Control			
Control Input	PIN1	Control Common	PIN3
Control Voltage		Converter Shutdown Idle Current	10mA
ON	>+2.5VDC or Open Circuit		CMOS or Open
OFF	<+0.8VDC or Jumper to PIN3	Logic Compatibility	Collector TTL