

20 Watts DIP Type Wide Input DC - DC Converters



FEATURES

- ◆ Regulated Output
- ◆ Remote On/Off and Trim
- ◆ 2:1 & 4:1 Input Range
- ◆ Six-Sided Shield Case
- ◆ Efficiency up to 80%
- ◆ 100% Burned In

SPECIFICATIONS

Input Voltage/ Range.....2:1 & 4:1 Input Range
 Nominal Line.....12V (Range 9-18V)
 48V (Range 36-72V) / 24V (Range 18-36V)
 12V (Range 9-36V) / 24V (Range 18-72V)

Input Filter..... Pi Network
 Voltage Accuracy.....± 2% max
 Temperature Coefficient.....+/-0.05°C
 Ripple & Noise (20MHz BW).....150mVp-p max
 Line Regulation (see note 1).....± 0.5% max
 Load Regulation (see note 2).....± 0.5%max
 Min. Load.....10% of full load
 Short Circuit Protection.....Continuous
 Over Voltage Protection.....Built-in
 Efficiency.....78% min
 Transient Response (Full to 1/2 Load).....< 500 u Sec.
 Isolation Voltage (see note 3).....1500 VDC min
 Isolation Resistance.....10⁹ ohms min
 Switching Frequency.....150 KHz min
 Operating Temperature.....-40°C to +71°C
 Storage Temperature-55°C to +100°C
 Cooling.....Free-Air Convection
 Case Material.....Six-Sided Continuous Shield
 Case Size.....50.8 x 25.4 x 11.27 mm
 Weight.....31.2g Typ.

Note: 1. High Line to Low Line
 2. Load Regulation is for output load current from 10 to 100%
 3. For 10 Seconds

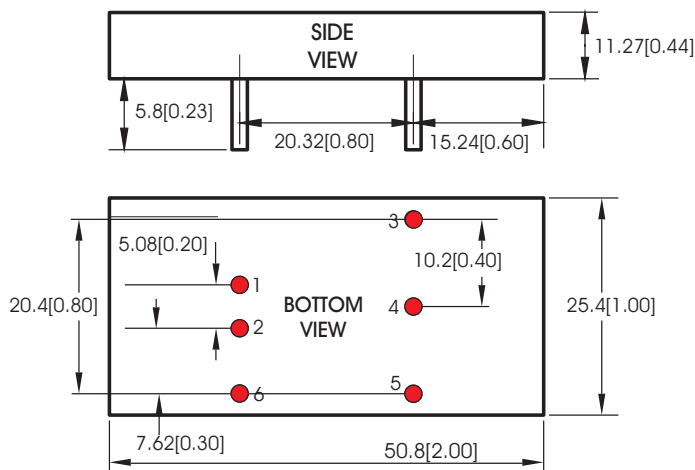
Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EFF. %
DA20-X0	See Note	3.3	5000	79
DA20-X1	See Note	5	4000	79
DA20-X2	See Note	12	1660	82
DA20-X3	See Note	15	1330	82
DA20-X4	See Note	±5	±2000	80
DA20-X5	See Note	±12	±830	80
DA20-X6	See Note	±15	±660	82

DC/DC Converter

Input Voltage:

- x=1, Range: 9-18VDC, Nominal Line 12VDC.
- x=2, Range: 18-36VDC, Nominal Line 24VDC.
- x=3, Range: 36-72VDC, Nominal Line 48VDC.
- x=4, Range: 9-36VDC, Nominal Line 12VDC.
- x=5, Range: 18-72VDC, Nominal Line 24VDC.

MECHANICAL DRAWING (Unit: mm [inch])



PIN	SINGLE	DUAL
1	+Vin	+Vin
2	-Vin	-Vin
3	+Vout	+Vout
4	NP	Common
5	-Vout	-Vout
6	Remote On/Off	