

20 Watts DIL Type Wide Input Range DC - DC Converter

FEATURES

- ◆ Regulated Output
- ◆ Input UVLO & OVLO
- ◆ High Efficiency
- ◆ Industry Standard Package
- ◆ UL94V-0 Package Material
- ◆ 100% Burn In

SPECIFICATIONS

Input Voltage Range..... 2:1 & 4:1 Input Range
Input Filter..... Pi Network
Protection..... Fuse Recommend
Voltage Set Point Accuracy..... $\pm 2\%$ max.
Temperature Coefficient..... $\pm 0.05^\circ\text{C}$
Ripple & Noise¹ (20MHz BW).....150mVp-p max.
Load Regulation²..... $\pm 0.5\%$ max.
Line Regulation³..... $\pm 0.3\%$ max.
Min. Load.....10% of full load
Short Circuit Protection.....Continuous
Transient Response 500 μs max.
Efficiency..... 88% Typ.
Isolation Voltage.....1500 VDC min.
Isolation Resistance..... 10^9 ohms min.
Isolation Capacitance..... 3000pF max.
Switching Frequency..... 300 KHz typ.
Operating Temperature..... -40°C to $+75^\circ\text{C}$
Storage Temperature -55°C to $+125^\circ\text{C}$
Humidity..... 95% max.
Cooling..... Free-Air Convection
Case Material..... Six-Sided Continuous Shield
Case Size..... 50.8 x 25.4 x 11.2 mm
Weight..... 31.2g Typ.
Packing.....10 pcs / tube ; 400 pcs per carton

Note:

[1] Measured with 1 μF ceramic capacitor connect to the output pins.

[2] Load Regulation is for output load current change from 10% to 100%.

[3] High line to low line.



Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EEF.
DA20-x0	see note	3.3	5000	85
DA20-x1	see note	5	4000	88
DA20-x2	see note	12	1666	88
DA20-x3	see note	15	1333	89
DA20-x5	see note	± 12	± 833	88
DA20-x6	see note	± 15	± 667	88
DA20-y0	see note	3.3	5000	85
DA20-y1	see note	5	4000	87
DA20-y2	see note	12	1666	87
DA20-y3	see note	15	1333	87

Note:

x=1, input range 9-18VDC

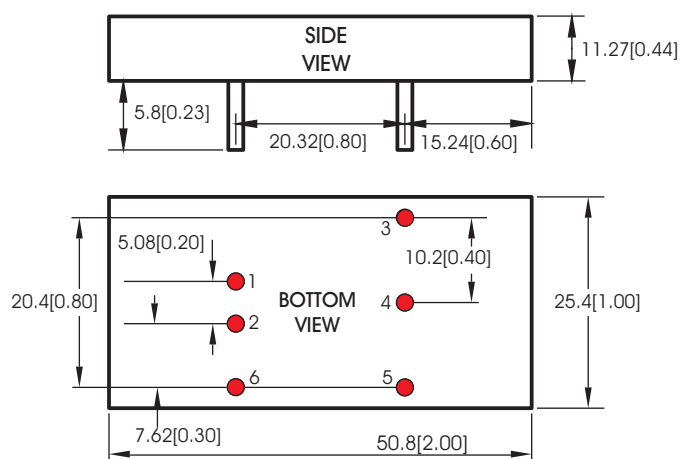
x=2, input range 18-36VDC

x=3, input range 36-75VDC

y=4, input range 9-36VDC

y=5, input range 18-75VDC

MECHANICAL DRAWING (Unit: mm [inch])



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