

60 Watts DIP Type Wide Input DC - DC Converter



FEATURES

- Industry Standard package
- Efficiency up to 93%
- UL94V-0 Package Material
- 100% Burned In

SPECIFICATIONS

Input Voltage Range..... 2:1 Input Range
Input Filter.....PI Network
Protection..... Fuse Recommend
OVLO & UVLO Circuit Restart Automatic
Overvoltage Protection.....Built-in
Voltage Set Point Accuracy..... $\pm 2\%$ max.
Temperature Coefficient..... $\pm 0.03\%/\text{C}$
Ripple & Noise¹ (20MHz BW).....100mVp-p max.
Load Regulation²..... $\pm 0.5\%$ max.
Line Regulation³..... $\pm 0.5\%$ max.
Min. Load..... 10% of full load
Short Circuit Protection.....Continuous
Short Circuit Restart Automatic
Over Load Protection.....150% Typ.
Transient Response (25% step load change)..... 500uS max.
External Trim Adj. Range $\pm 10\%$
Efficiency..... 92% Typ.
Isolation Voltage (for 10 sec.).....150VDC min.
Isolation Resistance..... 10^9 ohms min.
Isolation Capacitance..... 2500pF max.
Switching Frequency..... 250 Khz min.
Conducted Emissions..... EN55022 Class A
Radiated Emissions..... EN55022 Class A
Operating Temperature..... -40°C to +55°C
Storage Temperature -55°C to +100°C
Case Temperature +100°C max.
Humidity..... 95% max.
Cooling..... Free-Air Convection
Case Material.....Six-Sided Continuous Shield
Case Size..... 50.8 x 50.8 x 11.0 mm
Weight..... 67g Typ.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Output Current (mA)		EFF. %
				NoLoad	FullLoad	
DA60-11	9-18	5	12000	160	5505	91
DA60-12	9-18	12	5000	160	5430	92
DA60-13	9-18	15	4000	160	5430	92
DA60-20	18-36	3.3	12000	100	1812	92
DA60-21	18-36	5	12000	100	2778	90
DA60-22	18-36	12	5000	100	2701	93
DA60-23	18-36	15	4000	100	2690	93
DA60-30	36-75	3.3	12000	50	906	92
DA60-31	36-75	5	12000	50	1354	92
DA60-32	36-75	12	5000	50	1356	92
DA60-33	36-75	15	4000	80	1358	92

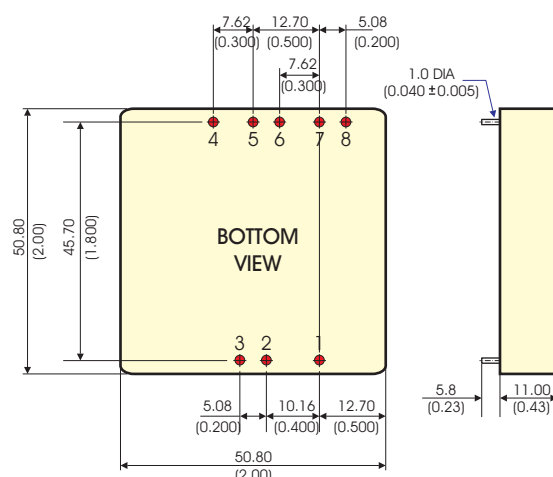
Note:

(1) Measured with 1uF 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.

MECHANICAL DRAWING (Unit: mm (inch))



PIN	SINGLE
1	Remote On/Off
2	-Vin
3	+Vin
4	-Sense
5	+Sense
6	+Vout
7	-Vout
8	TRIM

Remote On/Off Control			
Control Input	PIN1	Control Common	PIN2
Control Voltage	Converter Shutdown Idle Current 10mA		
ON	>+2.5VDC or Open Circuit		
OFF	<+0.5VDC or Jumper to PIN2		
Logic Compatibility		CMOS or Open Collector TTL	