

40 Watts DIP Type Wide Input Range DC - DC Converter



SPECIFICATIONS

Input Voltage Range 2:1 or 4:1 Input Range
Input Filter..... Pi Network
Protection..... Fuse Recommended
Over Voltage Protection..... Built-in
Voltage Accuracy..... $\pm 2\%$ max.
Ripple & Noise¹ (20MHz BW)..... 100mVp-p max.
Temperature Coefficient..... $\pm 0.03\%/^{\circ}\text{C}$
Load Regulation²..... $\pm 0.5\%$ max.
Line Regulation³..... $\pm 0.5\%$ max.
Minimum Load 10% of Full Load
Short Circuit Protection Continuous
Short Circuit Restart Automatic
External Trim Adj. Range $\pm 10\%$
Over Load Protection 150% Typ.
Transient Response (25% step load change) 500uS max.
Efficiency..... 90% Typical.
Isolation Voltage..... 1500VDC min.
Isolation Resistance..... $10^9 \Omega$ min.
Isolation Capacitance 2500pF max.
Switching Frequency..... 250KHz typ.
Conducted Emissions..... EN55022 Class A
Radiated Emissions..... EN55022 Class A
Operating Temperature (w/o heat sink)..... -40°C To $+60^{\circ}\text{C}$
Operating Temperature (w/ heat sink)..... -40°C To $+75^{\circ}\text{C}$
Case Temperature $+100^{\circ}\text{C}$ max.
Storage Temperature -55°C To $+100^{\circ}\text{C}$
Humidity..... 95% max.
Cooling..... Free-Air Convection
Case Material..... Six-Side Shielded
Case Size 50.8 * 50.8 * 11.0 mm
Weight 50g

Note:

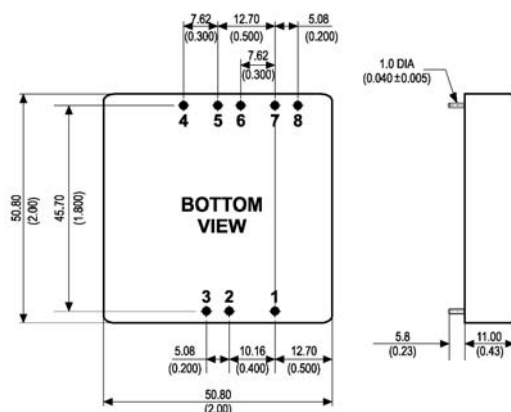
- (1) Measured with 1uF ceramic capacitor connect to the output pins.
(2) Load Regulation is for output load current change from 10% to 100%.
(3) High line to low line.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Current (mA)		EFF. %
				NoLoad	FullLoad	
D40-10 (HS)	9-18	3.3	10000	150	3125	88
D40-11 (HS)	9-18	5	8000	150	3663	91
D40-11B (HS)	9-18	9	4444	150	3663	91
D40-12 (HS)	9-18	12	3333	150	3703	90
D40-13 (HS)	9-18	15	2667	150	3703	90
D40-20 (HS)	18-36	3.3	10000	100	1545	89
D40-21 (HS)	18-36	5	8000	100	1785	93
D40-21B (HS)	18-36	9	4444	100	1832	91
D40-22 (HS)	18-36	12	3333	100	1832	91
D40-23 (HS)	18-36	15	2667	100	1825	91
D40-30 (HS)	36-75	3.3	10000	40	764	90
D40-31 (HS)	36-75	5	8000	40	906	92
D40-31B (HS)	36-75	9	4444	40	916	91
D40-32 (HS)	36-75	12	3333	40	920	91
D40-33 (HS)	36-75	15	2667	40	920	91
D40-40 (HS)	9-36	3.3	10000	150	3161	87
D40-41 (HS)	9-36	5	8000	150	3745	89
D40-41B (HS)	9-36	9	4444	150	3745	89
D40-42 (HS)	9-36	12	3333	150	3704	90
D40-43 (HS)	9-36	15	2667	150	3704	90
D40-50 (HS)	18-75	3.3	10000	100	1580	87
D40-51 (HS)	18-75	5	8000	100	1873	89
D40-51B (HS)	18-75	9	4444	100	1873	89
D40-52 (HS)	18-75	12	3333	100	1852	90
D40-53 (HS)	18-75	15	2667	100	1852	90

Note:

Suffix "HS" for Heat Sink Type

MECHANICAL DRAWING (Unit: mm[inch])



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

