

10 Watts DIP Type Wide Input DC - DC Converter

FEATURES

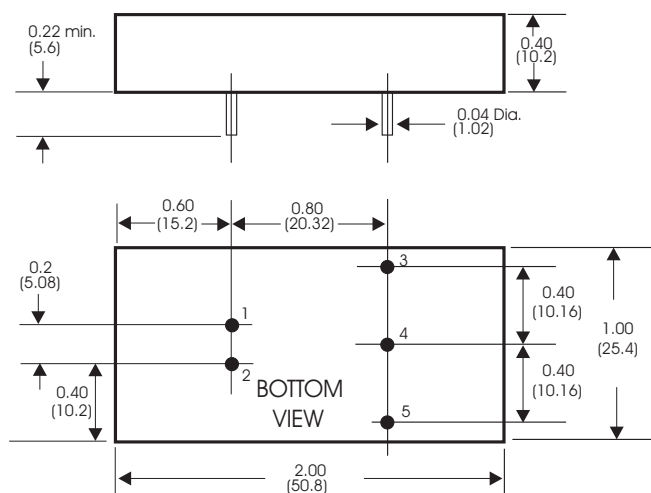
- ♦ 10W Isolated Output / 4:1 Input Range / PI Input Filter
- ♦ Continuous Short Circuit Protection
- ♦ High Efficiency Up to 82%
- ♦ Meets EMI EN55022 Class A, Conducted

SPECIFICATIONS

Input Voltage Range....24V (Range 9~36V) / 48V (Range 18~72V)
 Input Filter.....Pi Type
 Voltage Accuracy.....Single Output: $\pm 1\%$ max.
 Dual + Output: 1% max. / Dual - Output: $\pm 1\%$ max.
 Voltage Balance(Dual)..... $\pm 1\%$ max.
 Transient Response.....Single (25% step load change) < 500u sec.
 Dual (FL-1/2L $\pm 1\%$ Error Band) < 500u sec.
 Ripple & Noise(20MHz BW).....75mVp-p max.
 Temperature Coefficient..... $\pm 0.02\%/^{\circ}\text{C}$ max.
 Short Circuit Protection.....Continuous
 Line Regulation.....Single/Dual Output $\pm 0.2\%$ max.
 Load Regulation.....Single/Dual Output $\pm 1.0\%$ max.
 Efficiency.....See Model List
 Isolation Voltage.....500VDC Min.
 Isolation Resistance..... $10^9 \Omega$ min.
 Switching Frequency.....300KHz, min.
 Operating Temperature Range.....-25 $^{\circ}\text{C}$ To +71 $^{\circ}\text{C}$
 De-rating, Above 71 $^{\circ}\text{C}$ Linearly to Zero power at 100 $^{\circ}\text{C}$
 Storage Temperature Range.....-40 $^{\circ}\text{C}$ To +100 $^{\circ}\text{C}$
 Case Temperature.....100 $^{\circ}\text{C}$ max.
 EMI/RFI.....Six Sided Continuous Shield
 Case Material...Black Coated Copper With Non-Conductive Base
 Dimensions.....2.0x1.0x0.4 inches (50.8x25.4x10.2 mm)
 Weight32g

Model Number	Input Voltage	Output Voltage (VDC)	Output Current (mA)	Input Current (mA)		EFF. %
				NoLoad	FullLoad	
E10-40	9-36	3.3	2000	15	362	76
E10-41	9-36	5	2000	15	534	78
E10-42	9-36	12	830	15	520	80
E10-43	9-36	15	666	15	520	80
E10-44	9-36	± 5	± 1000	20	520	80
E10-45	9-36	± 12	± 415	20	520	80
E10-46	9-36	± 15	± 333	20	520	80
E10-50	18-72	3.3	2000	10	181	76
E10-51	18-72	5	2000	10	260	80
E10-52	18-72	12	830	10	257	81
E10-53	18-72	15	666	10	257	81
E10-54	18-72	± 5	± 1000	15	253	82
E10-55	18-72	± 12	± 415	15	257	81
E10-56	18-72	± 15	± 333	15	253	82

MECHANICAL DRAWING (Unit: inch(mm))



Pin Connections		
Pin	Single	Dual
1	+Vi	+Vi
2	-Vi	-Vi
3	+Vo	+Vo
4	N.P.	Com.
5	-Vo	-Vo