

10 ~ 12Watts DIL Type DC - DC Converter



FEATURES

- ◆ 1500VDC Isolation
- ◆ High Efficiency
- ◆ UL 94V-0 Package Material
- ◆ 100% Burn in

SPECIFICATIONS

Input Voltage Range 2:1 Input Range
 Input Filter..... Pi Network
 Protection..... Fuse Recommended
 Voltage Setpoint Accuracy..... $\pm 2\%$ max.
 Ripple & Noise¹ (20MHz BW).....100mVp-p max.
 Temperature Coefficient..... $\pm 0.05\%/^{\circ}\text{C}$
 Load Regulation²..... $\pm 0.5\%$ max.
 Line Regulation³..... $\pm 0.5\%$ max.
 Minimum Load 20% of Full Load
 Short Circuit Protection Continuous
 Short Circuit Restart Automatic
 Over Load Protection 110%~180%
 Transient Response (25% step load change)..... 350uS max.
 Efficiency..... 78% min.
 Isolation Voltage (for 10 sec.).....1500VDC min.
 Isolation Resistance..... $10^9\Omega$ min.
 Isolation Capacitance 2200pF max.
 Switching Frequency..... 400KHz min.
 Conducted Emissions..... EN55022 Class A
 Radiated Emissions..... EN55022 Class A
 Operating Temperature(with derating)..... -40°C To $+85^{\circ}\text{C}$
 Storage Temperature -55°C To $+105^{\circ}\text{C}$
 Case Temperature $+95^{\circ}\text{C}$ max.
 Humidity..... 95% max.
 Cooling..... Free-Air Convection
 Case Material..... Five-Side Shielded
 Case Size 31.8 * 20.3 * 12.2 mm
 Weight 18.5g

Note:

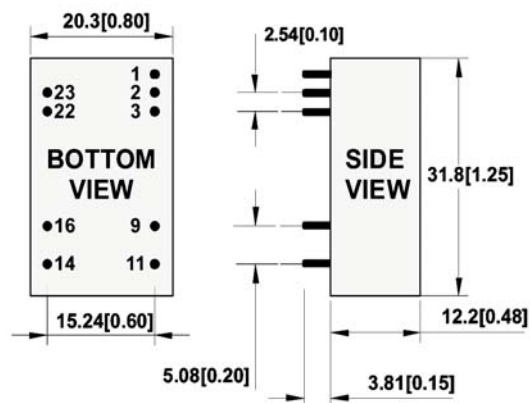
- (1) Measured with 1uF ceramic capacitor connect to the output pins.
 (2) Load Regulation is for output load current change from 20% to 100%.
 (3) High line to low line..

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	EEF.	Capacitor Load Max.
DW12-11	9-18	5	2400	84	1000uF
DW12-12	9-18	12	1000	83	200uF
DW12-13	9-18	15	800	83	200uF
DW12-14	9-18	± 5	± 1200	81	$\pm 670\text{uF}$
DW12-15	9-18	± 12	± 500	84	$\pm 100\text{uF}$
DW12-16	9-18	± 15	± 400	83	$\pm 47\text{uF}$
DW12-21	18-36	5	2400	83	1000uF
DW12-22	18-36	12	1000	83	200uF
DW12-23	18-36	15	800	85	200uF
DW12-24	18-36	± 5	± 1200	81	$\pm 670\text{uF}$
DW12-25	18-36	± 12	± 500	84	$\pm 100\text{uF}$
DW12-26	18-36	± 15	± 400	84	$\pm 47\text{uF}$
DW12-31	36-75	5	2400	84	1000uF
DW12-32	36-75	12	1000	83	200uF
DW12-33	36-75	15	800	85	200uF
DW12-34	36-75	± 5	± 1200	81	$\pm 670\text{uF}$
DW12-35	36-75	± 12	± 500	84	$\pm 100\text{uF}$
DW12-36	36-75	± 15	± 400	84	$\pm 47\text{uF}$

** Remote on/off:

- ON 3.0...1.2V/DC or open circuit (referenced to -Vin)
 - OFF 0.0...1.2V/DC pr short circuit (pin 1, pin 2 & pin 3)
 - OFF Idle Current ... 2.5mA

MECHANICAL DRAWING (Unit: inch(mm))



Standard Pin-Out		
Pin#	Single	Dual
1	Remote On/Off	Remote On/Off
2 & 3	-Vi	-Vi
9	NC	Com.
11	NC	-Vo
14	+Vo	+Vo
16	-Vo	Com.
22 & 23	+Vi	+Vi

Remote On/Off Control			
Control Input	PIN 1	Control Input	PIN 2 & PIN 3
Control Voltage		Converter Shutdown Idle Current	10mA
ON	> +2.5VDC or Open Circuit	Logic Compatibility	CMOS or Open Collector TTL
OFF	< +0.8VDC or Jumper to Pin 2 & Pin 3		