

## 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..... ± 2% max.  
 Ripple & Noise<sup>1</sup> (20MHz BW).....100mVp-p max.  
 Temperature Coefficient..... ± 0.05%/°C  
 Load Regulation<sup>2</sup>..... ± 0.5% max.  
 Line Regulation<sup>3</sup>..... ± 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<sup>9</sup>Ωmin.  
 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°C  
 Storage Temperature ..... -55°C To +105°C  
 Case Temperature ..... +95°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

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	± 670uF
DW12-15	9-18	± 12	± 500	84	±100uF
DW12-16	9-18	± 15	± 400	83	± 47uF
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	± 670uF
DW12-25	18-36	± 12	± 500	84	±100uF
DW12-26	18-36	± 15	± 400	84	± 47uF
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	± 670uF
DW12-35	36-75	±12	± 500	84	±100uF
DW12-36	36-75	±15	± 400	84	± 47uF

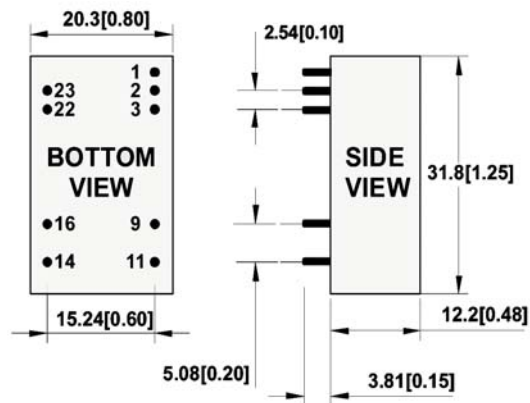
**Note:**

- (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..

**\*\* 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		