

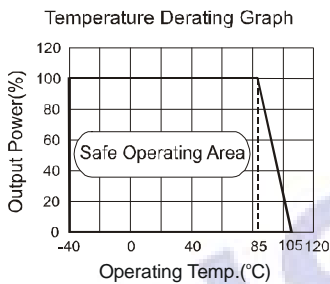
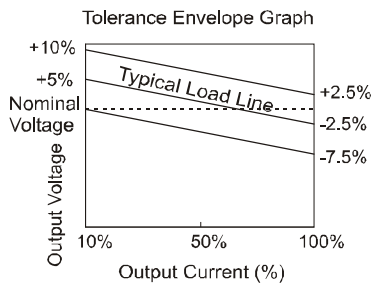


## COMMON SPECIFICATIONS

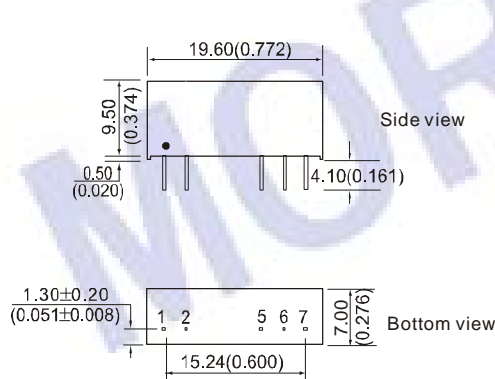
Item	Test Conditions	Min	Typ	Max	Units
Storage humidity				95	%
Operating temperature		-40		85	°C
Storage temperature		-55		125	
Lead temperature	1.5mm from case for 10 seconds			300	
Temp. rise at full load			15	25	
Short circuit protection*				1	S
package material		Free air convection			
Cooling		Plastic (UL94-V0)			
MTBF		3500			K hours
Weight			2.1		g

\*Supply voltage must be discontinued at the end of short circuit duration.

## TYPICAL CHARACTERISTICS

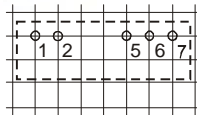


## RECOMMENDED REFLOW SOLDERING PROFILE



First Angle Projection

RECOMMENDED FOOTPRINT  
Top view, grid: 2.54mm (0.1inch)  
diameter: 1.00mm (0.039inch)



### FOOTPRINT DETAILS

Pin	Function
1	Vin
2	GND
5	-Vo
6	0V
7	+Vo

Note:  
Unit: mm (inch)  
Pin section: 0.50\*0.30mm (0.020\*0.012inch)  
Pin section tolerances: ±0.10mm (±0.004inch)  
General tolerances: ±0.25mm (±0.010inch)

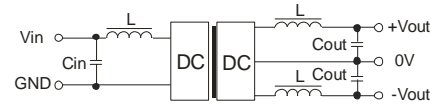
## APPLICATION NOTE

### Requirement on output load

To ensure this module can operate efficiently and reliably, During operation, the minimum output load is **not less than 10%** of the full load, and that **this product should never be operated under no load!** If the actual output power is very small, please connect a resistor with proper resistance at the output end in parallel to increase the load, or use our company's products with a lower rated output power.

### Recommended testing circuit

If you want to further decrease the input/output ripple, an "LC" filtering network may be connected to the input and output ends of the DC/DC converter, see (Figure1).



(Figure 1)

It should also be noted that the inductance and the frequency of the "LC" filtering network should be staggered with the DC/DC frequency to avoid mutual interference. However, the capacitance of the output filter capacitor must be proper. If the capacitance is too big, a startup problem might arise. For every channel of output, provided the safe and reliable operation is ensured, the greatest capacitance of its filter capacitor sees (Table 1).

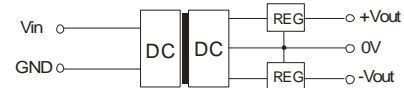
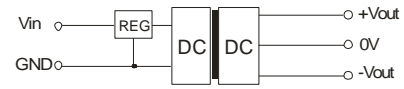
### EXTERNAL CAPACITOR TABLE (TABLE 1)

Vin (VDC)	Cin (uF)	Dual Vout (VDC)	Cout (uF)
3.3	4.7	±5	4.7

It's not recommended to connect any external capacitor in the application field with less than 0.5 watt output.

### Output Voltage Regulation and Over-voltage Protection Circuit

The simplest device for output voltage regulation, over-voltage and over-current protection is a linear voltage regulator with overheat protection that is connected to the input or output end in series (Figure2).



(Figure 2)

### Overload Protection

Under normal operating conditions, the output circuit of these products has no protection against overload. The simplest method is to connect a self-recovery fuse in series at the input end or add a circuit breaker to the circuit.

### No parallel connection or plug and play.