



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



## Contact us

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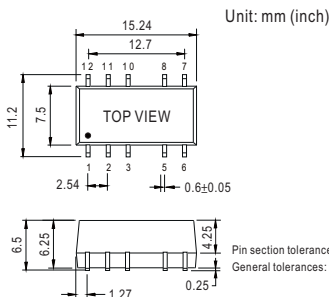
- Features :
  - 3000VDC I/O isolation
  - Internal SMD technology
  - Protection: Short circuit
  - Cooling by free air convection
  - Non-conductive plastic case
  - SMD package styles
  - 100% full load burn-in test
  - Low cost / High reliability
  - Approved: UL / CUL
  - 1 year warranty



**SPECIFICATION**

MODEL NO.	E0505T-1W	E1205T-1W	E0509T-1W	E1209T-1W	E0512T-1W	E1212T-1W	E0515T-1W	E1215T-1W			
ORDER NO.	DET01L-05	DET01M-05	DET01L-09	DET01M-09	DET01L-12	DET01M-12	DET01L-15	DET01M-15			
OUTPUT	DC OUTPUT VOLTAGE		±5V		±9V		±12V		±15V		
	OUTPUT CURRENT RANGE		±100mA		±56mA		±42mA		±33mA		
	EFFICIENCY		72%	71%	75%	73%	78%	74%	79%	75%	
	RATED POWER		1W								
	RIPPLE & NOISE (max.) Note.2		100mVp-p								
	LINE REGULATION Note.3		±1.2% for 1% input variation								
	LOAD REGULATION Note.4		±8.0%								
	VOLTAGE TOLERANCE		±8.0%								
SWITCHING FREQUENCY(Typ.)		100KHz									
INPUT	VOLTAGE RANGE		4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V	4.5 ~ 5.5V	10.8 ~ 13.2V	
	NORMAL VOLTAGE		5V	12V	5V	12V	5V	12V	5V	12V	
	INPUT CURRENT	Full load	280mA	122mA	280mA	122mA	280mA	122mA	280mA	122mA	
		No load	29mA	18mA	29mA	18mA	29mA	18mA	29mA	29mA	
PROTECTION		Fuse recommended									
PROTECTION	OVERLOAD		Momentary							Protection type : Broken	
	SHORT CIRCUIT		Momentary							Protection type : Broken	
ENVIRONMENT	WORKING TEMP.		-40 ~ +85°C (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +105°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03% / °C (0 ~ 50°C)								
VIBRATION		10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes									
SAFETY & EMC	SAFETY STANDARDS		UL60950-1, CSA C22.2								
	WITHSTAND VOLTAGE		I/P-O/P: 3KVDC								
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
OTHERS	MTBF		500khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION		15.24*7.5*6.5mm or 0.6**0.295**0.24" inch (L*W*H)								
	WEIGHT		1.7g								

**Mechanical Specification**

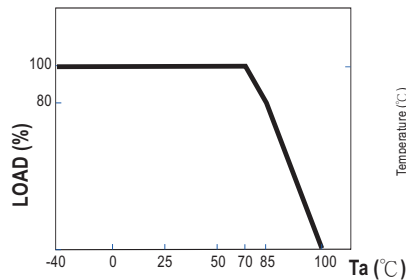


**Pin Configuration**

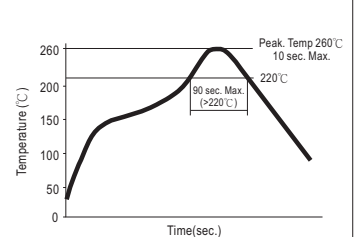
Pin No.	Output
1	-Vin
2	+Vin
3	NC
5	COM
6	-Vout
7	NC
8	+Vout
10	NC
11	NC
12	NC

NC : Please DO NOT connect to other pins.

**Derating Curve**



**Reflow Soldering Curve**



**NOTE**

- 1.All parameters are specified at normal input, rated load, 25°C 70% RH. ambient.
- 2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- 3.Line regulation is measured from low line to high line at rated load.
- 4.Load regulation is measured from 20% to 100% rated load.