



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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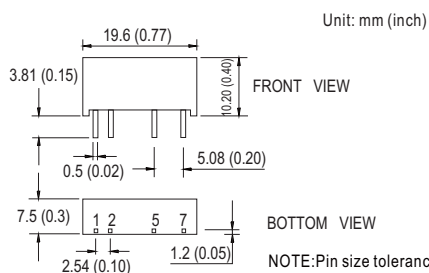
- Features :
  - 3000VDC I/O isolation
  - Internal SMD technology
  - Built-in EMI filter
  - Protection: Short circuit
  - Cooling by free air convection
  - Non-conductive plastic case
  - Single in line package
  - 100% full load burn-in test
  - Low cost / High reliability
  - 2 years warranty



## SPECIFICATION

ORDER NO.	SPU03L-05	SPU03M-05	SPU03N-05	SPU03L-12	SPU03M-12	SPU03N-12	SPU03L-15	SPU03M-15	SPU03N-15		
OUTPUT	DC OUTPUT VOLTAGE	5V			12V			15V			
	CURRENT RANGE	60 ~ 600mA			25 ~ 250mA			20 ~ 200mA			
	EFFICIENCY (Typ.)	82%	83%	83%	85%	86%	86%	86%	86%	88%	
	RATED POWER	3W									
	RIPPLE & NOISE (max.) Note.2	50mVp-p									
	LINE REGULATION Note.3	±1.2% for 1% input variation									
	LOAD REGULATION Note.4	±8.0%									
	VOLTAGE ACCURACY	±2.0%									
SWITCHING FREQUENCY	60KHz min.										
INPUT	VOLTAGE RANGE	4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	
	NORMAL VOLTAGE	5V	12V	24V	5V	12V	24V	5V	12V	24V	
	INPUT CURRENT	Full load	740mA	305mA	155mA	715mA	300mA	150mA	705mA	300mA	145mA
		No load	60mA	25mA	15mA	65mA	25mA	15mA	65mA	30mA	15mA
	FILTER	Capacitor type									
PROTECTION	Fuse recommended										
PROTECTION	OVERLOAD	Momentary Protection type : Broken									
	SHORT CIRCUIT	Momentary Protection type : Broken									
ENVIRONMENT	WORKING TEMP.	-40 ~ +90°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	WITHSTAND VOLTAGE	I/P-O/P:3KVDC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH									
	ISOLATION CAPACITANCE	80pF max.									
	EMC EMISSION	Compliance to EN55032 Class B, FCC part 15 Class B									
EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A										
OTHERS	MTBF	700khrs min. MIL-HDBK-217F(25°C)									
	DIMENSION	19.6*7.5*10.2mm or 0.77**0.30**0.40" inch (L*W*H)									
	WEIGHT	2.9g									

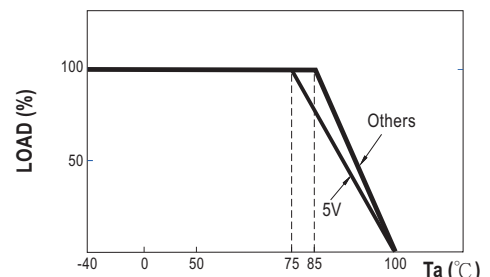
### Mechanical Specification



### Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
5	-Vout
7	+Vout

### Derating 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.