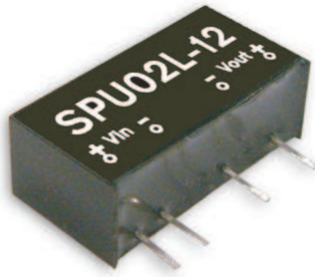




**Automatización Eléctrica**

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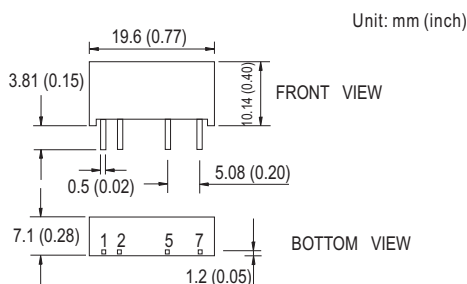
- Features :
  - 3000VDC I/O isolation
  - Internal SMD technology
  - Built-in EMI filter
  - Protection: Short circuit
  - Cooling by free air convection
  - Non-conductive plastic case
  - Single in line package
  - 100% full load burn-in test
  - Low cost / High reliability
  - 2 years warranty



## SPECIFICATION

ORDER NO.	SPU02L-05	SPU02M-05	SPU02N-05	SPU02L-12	SPU02M-12	SPU02N-12	SPU02L-15	SPU02M-15	SPU02N-15		
OUTPUT	DC OUTPUT VOLTAGE			12V			15V				
	CURRENT RANGE			33 ~ 167mA			27 ~ 133mA				
	EFFICIENCY (Typ.)		77%	79%	77%	80%	81%	80%	81%	83%	82%
	RATED POWER			2W							
	RIPPLE & NOISE (max.) Note.2			100mVp-p							
	LINE REGULATION Note.3			±1.2% for 1% input variation							
	LOAD REGULATION Note.4			±8.0%							
	VOLTAGE ACCURACY			±2.0%							
SWITCHING FREQUENCY			100KHz 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	520mA	214mA	107mA	520mA	214mA	107mA	520mA	214mA	107mA
		No load	60mA	20mA	15mA	60mA	20mA	15mA	60mA	20mA	15mA
	FILTER		Capacitor type								
PROTECTION		Fuse recommended									
PROTECTION	OVERLOAD		Momentary								
			Protection type : Broken								
PROTECTION	SHORT CIRCUIT		Momentary								
			Protection type : Broken								
ENVIRONMENT	WORKING TEMP.		-40 ~ +71°C (Refer to output load 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 EN55022 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*7.1*10.2mm or 0.77**0.28**0.40" inch (L*W*H)								
	WEIGHT		2.3g								

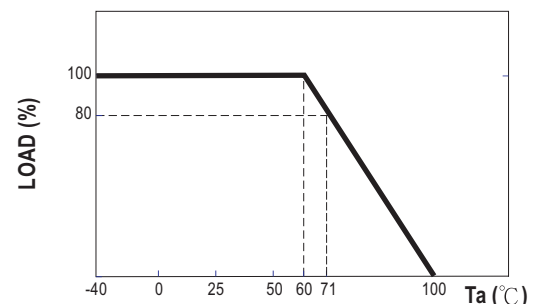
### Mechanical Specification



### Pin Configuration

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

### Derating Curve



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



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Product	Code	Reference	Product link
Input: 4,5-5,5 DC, Output: 1, V1: 5, A1: 0,4	SPU02L05	SPU02L-05	<a href="#">Buy on EAN</a>
Input: 4,5-5,5 DC, Output: 1, V1: 12, A1: 0,167	SPU02L12	SPU02L-12	<a href="#">Buy on EAN</a>
Input: 4,5-5,5 DC, Output: 1, V1: 15, A1: 0,133	SPU02L15	SPU02L-15	<a href="#">Buy on EAN</a>
DC/DC Converter Modular Type Series SPU02 2W Input Vac Dimension 0.77x0.28x0.4 inch Warranty 2 year	SPU02M05	SPU02M-05	<a href="#">Buy on EAN</a>
Input: 10,8-13,2 DC, Output: 1, V1: 12, A1: 0,214	SPU02M12	SPU02M-12	<a href="#">Buy on EAN</a>
Input: 10,8-13,2 DC, Output: 1, V1: 15, A1: 0,133	SPU02M15	SPU02M-15	<a href="#">Buy on EAN</a>
Input: 21,6-26,4 DC, Output: 1, V1: 5, A1: 0,4	SPU02N05	SPU02N-05	<a href="#">Buy on EAN</a>
Input: 21,6-26,4 DC, Output: 1, V1: 15, A1: 0,133	SPU02N12	SPU02N-12	<a href="#">Buy on EAN</a>
Input: 21,6-26,4 DC, Output: 1, V1: 15, A1: 0,133	SPU02N15	SPU02N-15	<a href="#">Buy on EAN</a>