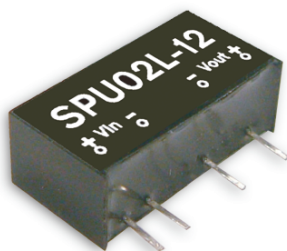




2W DC-DC Unregulated Single Output Converter

SPU02 series



■ Features :

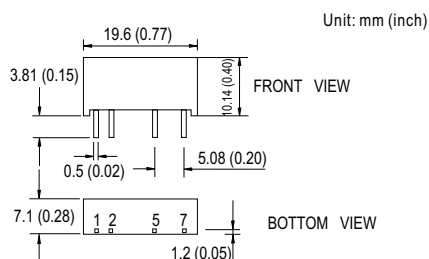
- 3000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty



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	5V			12V			15V		
	CURRENT RANGE	0 ~ 400mA			0 ~ 167mA			0 ~ 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%								
INPUT	SWITCHING FREQUENCY	100KHz min.								
	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
		No load	60mA	20mA	15mA	60mA	20mA	15mA	60mA	20mA
PROTECTION	FILTER	Capacitor type								
	PROTECTION	Fuse recommended								
	OVERLOAD	Momentary Protection type : Broken								
PROTECTION	SHORT CIRCUIT	Momentary Protection type : Broken								
ENVIRONMENT	WORKING TEMP.	-25 ~ +71°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-25 ~ +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.								
	EMI CONDUCTION & RADIATION	Compliance to EN55022 Class B, FCC part 15 Class B								
OTHERS	EMS IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A								
	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								

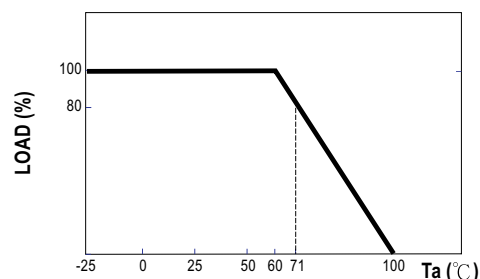
■ Mechanical Specification



■ Pin Configuration

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

■ Derating Curve



NOTE

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 10% to 100% rated load.