

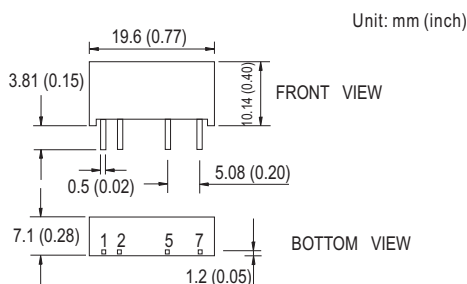
- Features :
 - 3000VDC I/O isolation
 - Internal SMD technology
 - Built-in EMI filter
 - Protection: Short circuit
 - Cooling by free air convection
 - Non-conductive plastic case
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - 2 years warranty



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		
	NORMAL VOLTAGE			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							
	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							

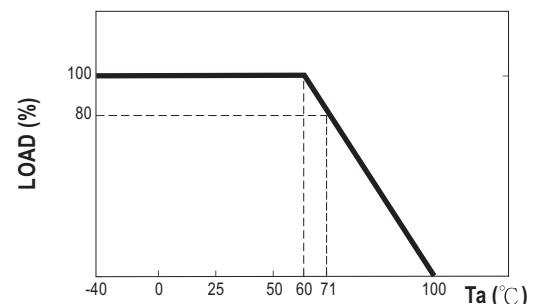
Mechanical Specification



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.