

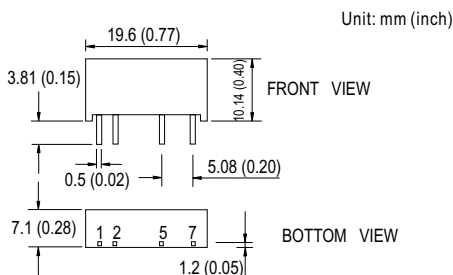
- Features :
 - 3000VDC I/O isolation
 - Internal SMD technology
 - Built-in EMI filter
 - Protection: Short circuit
 - Cooling by free air convection
 - Non-conductive plastic case
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - 2 years warranty



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		
	NORMAL VOLTAGE			5V			12V			24V		
	INPUT CURRENT	Full load			520mA			214mA			107mA	
		No load			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.								
	EMI CONDUCTION & RADIATION			Compliance to EN55022 Class B, FCC part 15 Class B								
	EMS 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								

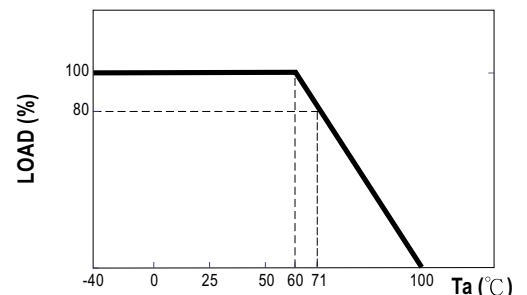
■ Mechanical Specification



■ Pin Configuration

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

■ Derating Curve



- NOTE**
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.