



3W DC-DC Unregulated Single Output Converter

SPU03 series



■ Features :

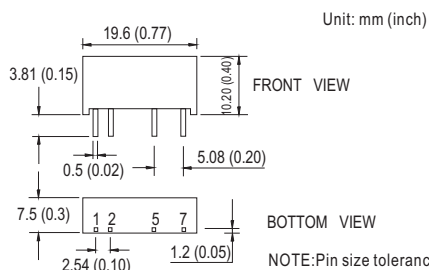
- 3000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- Protection: Short circuit
- Cooling by free air convection
- Non-conductive plastic case
- Single in line package
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty



SPECIFICATION

ORDER NO.	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%	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%							
INPUT	SWITCHING FREQUENCY	60KHz 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
	NORMAL VOLTAGE	5V	12V	24V	5V	12V	24V	5V	12V
	INPUT CURRENT	Full load	740mA	305mA	155mA	715mA	300mA	150mA	705mA
		No load	60mA	25mA	15mA	65mA	25mA	15mA	65mA
PROTECTION	FILTER	Capacitor type							
	PROTECTION	Fuse recommended							
	OVERLOAD	Momentary							
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							
SAFETY & EMC	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 STANDARDS	EAC TP TC 020/2011 approved							
	WITHSTAND VOLTAGE	I/P-O/P: 3KVDC							
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
	ISOLATION CAPACITANCE	80pF max.							
OTHERS	EMC EMISSION	Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, EAC TP TC 020							
	EMC IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020							
	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							

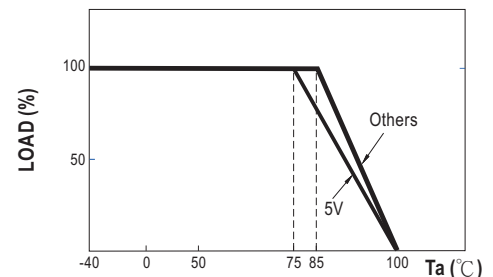
■ Mechanical Specification



■ 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.
- ※ Product Liability Disclaimer : For detailed information, please refer to <https://www.meanwell.com/serviceDisclaimer.aspx>