

- 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

## ■ GTIN CODE

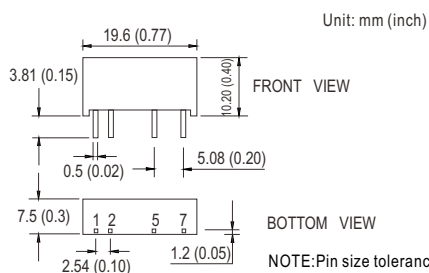
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



## 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			12V			15V					
	CURRENT RANGE			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%												
SWITCHING FREQUENCY												
60KHz 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	740mA	305mA	155mA	715mA	300mA	150mA	705mA	300mA	145mA	
		No load	60mA	25mA	15mA	65mA	25mA	15mA	65mA	30mA	15mA	
	FILTER		Capacitor type									
PROTECTION		Fuse recommended										
PROTECTION	OVERLOAD		Momentary									
			Protection type : Broken									
SHORT CIRCUIT		Momentary										
		Protection type : Broken										
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									
	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	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.									
	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										
OTHERS	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									

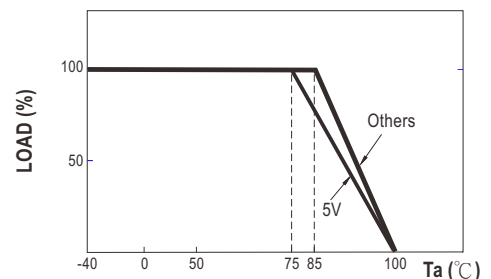
### ■ Mechanical Specification



### ■ Pin Configuration

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

### ■ Derating Curve



### NOTE

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

**Packing**

Standard Tube Packing	MPQ Per Tube (PCS)	One Box G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
<p>Unit : mm</p>	25	100g	4000	16.8Kg

**Installation Manual**

Please refer to : <http://www.meanwell.com/manual.html>