



- 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

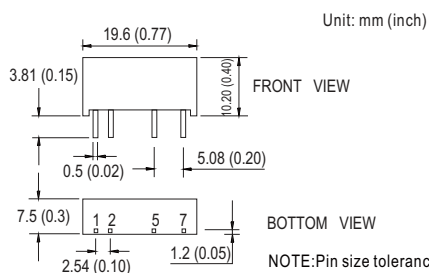
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



## 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		
	NORMAL VOLTAGE			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							
	SHORT CIRCUIT			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							
	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)							
	PACKING			2.9g ; 25pcs/per tube, 4000pcs/160 tube/per carton							

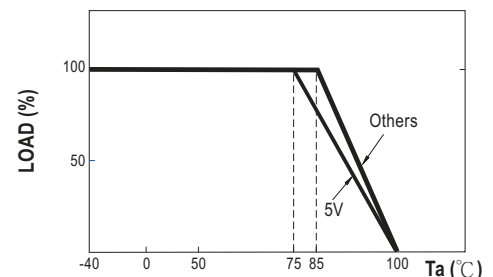
### ■ Mechanical Specification



### ■ 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 Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
<p>Unit : mm</p> <p>Product</p> <p>Tube Plugs</p> <p>520</p> <p>15 4.2 11 9.1</p> <p>Tube pattern</p> <p>W H L</p> <p>CARTON L600 x W230 x H220</p>	25	100g	4000	16.8Kg

■ Installation Manual

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