



THE DATASHEET OF SPU03N-05





- 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

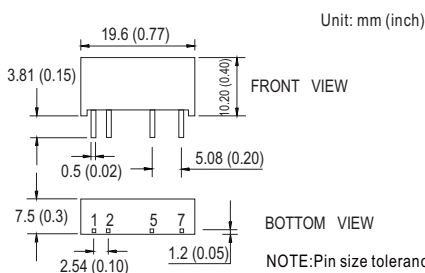
MW Search: <https://www.meanwell.com/serviceGTIN.aspx>



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	5V			12V			15V			
	CURRENT RANGE	60 ~ 600mA			25 ~ 250mA			20 ~ 200mA			
	EFFICIENCY (Typ.)	82%	83%	83%	85%	86%	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	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									
OTHERS	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)									
	PACKING	2.9g ; 25pcs/per tube, 4000pcs/160 tube/per carton									

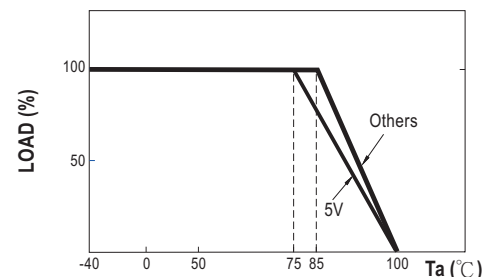
■ Mechanical Specification



■ 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>

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- ✓ Shortage Management
- ✓ Alternative Solution
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