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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

GTIN CODE

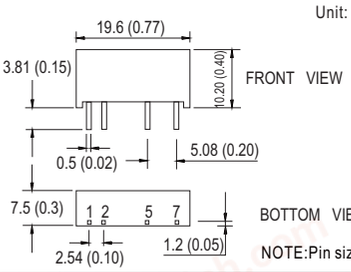
MW Search: https://www.meanwell.com/serviceGTIN.aspx

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%								
	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℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +105℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.03% / ℃ (0 ~ 50℃)								
	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℃ / 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℃)								
	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

Unit: mm (inch)

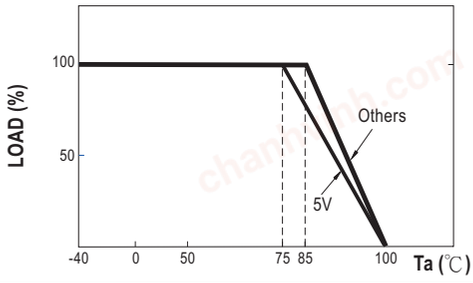


NOTE:Pin size tolerance 0.50x0.30mm±0.05mm

Pin Configuration

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

Derating Curve

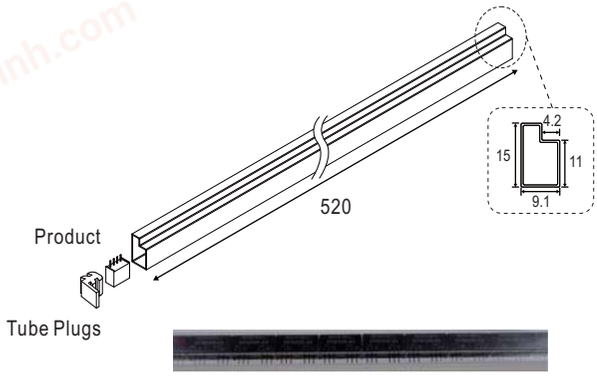
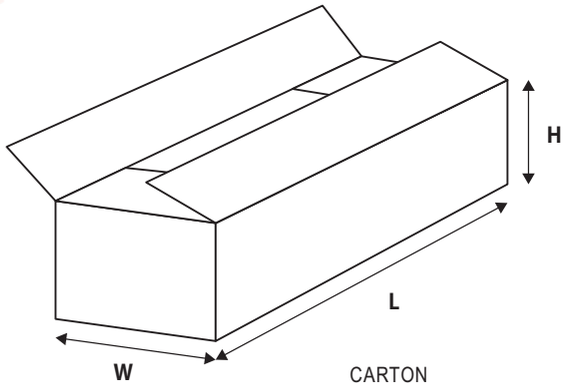


NOTE

1.All parameters are specified at normal input, rated load, 25℃ 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

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■ Packing

Standard Tube Packing	MPQ Per Tube (PCS)	One Tube G.W.	Max. Q'TY/ Carton(PCS)	One Carton G.W.
Unit : mm  Tube pattern  CARTON L620 x W230 x H230	25	100g	4000	16.8Kg

■ Installation Manual

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