



2W DC-DC Unregulated Single Output Converter

SMU02 series



■ Features :

- SIP package
- Industry standard pinout
- 1500VDC I/O isolation
- Built-in EMI filter without external components
- Cooling by free air convection
- Non-conductive plastic case
- 100% burn-in test
- Low cost / High reliability
- 2 years warranty

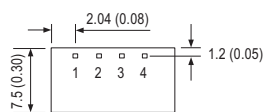
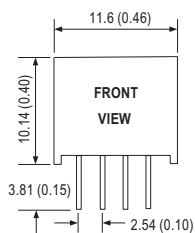


SPECIFICATION

ORDER NO.		SMU02L-05	SMU02M-05	SMU02N-05	SMU02L-12	SMU02M-12	SMU02N-12	SMU02L-15	SMU02M-15	SMU02N-15	
OUTPUT	DC VOLTAGE		5V			12V			15V		
	CURRENT RANGE		80 ~ 400mA			33 ~ 167mA			27 ~ 133mA		
	RATED POWER		2W								
	RIPPLE & NOISE (max.) Note.2		50mVp-p	50mVp-p	50mVp-p	60mVp-p	60mVp-p	60mVp-p	80mVp-p	80mVp-p	
	LINE REGULATION Note.3		±1.2% for 1% input variation								
	LOAD REGULATION Note.4		±8.0%								
	VOLTAGE ACCURACY		±2.0%								
	SWITCHING FREQUENCY(Typ.)		100KHz								
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
	EFFICIENCY(Typ.)		79%	82%	80%	83%	85%	84%	84%	85%	84%
	NORMAL VOLTAGE		5V	12V	24V	5V	12V	24V	5V	12V	24V
	INPUT CURRENT	Full load	500mA	210mA	107mA	500mA	210mA	107mA	500mA	210mA	107mA
		No load	50mA	25mA	15mA	50mA	25mA	15mA	50mA	25mA	15mA
	PROTECTION (FUSE RECOMMENDED)		500mA	250mA	150mA	500mA	250mA	150mA	500mA	250mA	150mA
	FILTER		Capacitor type								
PROTECTION	OVERLOAD		Momentary								
			Protection type : Broken								
	SHORT CIRCUIT		Momentary								
			Protection type : Broken								
ENVIRONMENT	WORKING TEMP.		-40 ~ +85℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-55 ~ +125℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.05% / °C (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: 1.5KVDC								
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH								
	ISOLATION CAPACITANCE		80pF max.								
	EMI RADIATION		Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, EAC TP TC 020								
OTHERS	EMS IMMUNITY		Compliance to BS EN/EN61000-4-2,3,4,5,6,8 light industry level, criteria A, EAC TP TC 020								
	MTBF		100Khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION (L*W*H)		11.6*7.5*10.14mm or 0.46**0.30**0.40" inch								
	WEIGHT		1.3g								

■ Mechanical Specification

Unit: mm (inch)



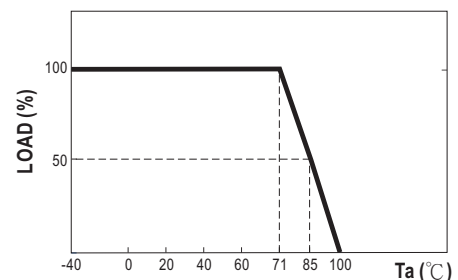
BOTTOM VIEW

Pin Size is 0.50*0.30mm(0.02**0.01")

■ Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
3	-Vout
4	+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.
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