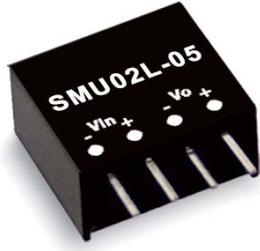




THE DATASHEET OF SMU02N-15





- 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

■ GTIN CODE

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

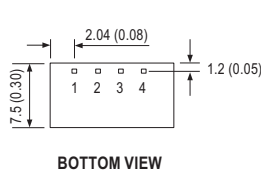
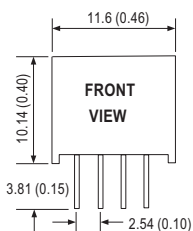


SPECIFICATION

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	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°C (Refer to "Derating Curve")									
	WORKING HUMIDITY	20% ~ 90% RH non-condensing									
	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH									
	TEMP. COEFFICIENT	±0.05% / °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: 1.5KVDC									
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH									
	ISOLATION CAPACITANCE	80pF max.									
	EMI RADIATION	Compliance to BS EN/EN55032 Class B, FCC part 15 Class B, EAC TP TC 020									
	EMS IMMUNITY	Compliance to BS EN/EN61000-4-2,3,4,5,6,8 light industry level, criteria A, EAC TP TC 020									
OTHERS	MTBF	100Khrs min. MIL-HDBK-217F(25°C)									
	DIMENSION (L*W*H)	11.6*7.5*10.14mm or 0.46**0.30**0.40" inch									
	PACKING	1.3g ; 42pcs/per tube, 7560pcs/180 tube/per carton									

■ Mechanical Specification

Unit: mm (inch)

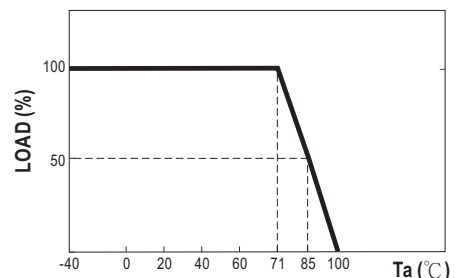


Pin Size is 0.50*0.30mm(0.02**0.01")

■ Pin Configuration

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

■ Derating Curve



NOTE

- 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>	42	90g	7560	17Kg

■ Installation Manual

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

Looking for pricing, stock, or lifecycle information?

Click below to explore more details on WIN SOURCE:

- [View SMU02N-15 on WIN SOURCE](#)
- [Mean Well Enterprises Co., Ltd. Information](#)

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- ✓ Obsolete Management
- ✓ Cost Control Management
- ✓ Shortage Management
- ✓ Alternative Solution
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