



#### Features:

- 1000VDC I/O isolation
- Internal SMD technology
- Built-in EMI filter
- · Cooling by free air convection
- Non-conductive plastic case
- Dual in line package
- 100% burn-in test
- · Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

### **SELECTION GUIDE**

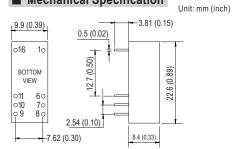


ORDER NO.		SUS01L-05	SUS01M-05	SUS01N-05	SUS010-05	SUS01L-09	SUS01M-09	SUS01N-09	SUS010-09
	DC OUTPUT VOLTAGE	5V 0 ~ 200mA			9V				
	OUTPUT CURRENT RANGE				0 ~ 111mA				
	EFFICIENCY	73%	74%	72%	74%	75%	79%	80%	77%
ORDER NO.		SUS01L-12	SUS01M-12	SUS01N-12	SUS010-12	SUS01L-15	SUS01M-15	SUS01N-15	SUS010-15
	DC OUTPUT VOLTAGE 12V				15V				
	OUTPUT CURRENT RANGE	0 ~ 84mA			0 ~ 67mA				
	EFFICIENCY	78%	82%	83%	83%	79%	82%	83%	83%

#### **SPECIFICATION**

SPECIFICATION											
	RATED POWER		1W								
ОИТРИТ	RIPPLE & NOISE (n	nax.) Note.2	100mVp-p								
	LINE REGULATION	Note.3	±1.2% for 1% input variation								
	LOAD REGULATION Note.4		±8.0%								
	VOLTAGE ACCURACY		±2.0%								
	SWITCHING FREQUENCY		50KHz min.								
	VOLTAGE RANGE		4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	43.2 ~ 52.8V	4.5 ~ 5.5V	10.8 ~ 13.2V	21.6 ~ 26.4V	43.2 ~ 52.8V	
	NORMAL VOLTAGE		5V	12V	24V	48V	5V	12V	24V	48V	
INPUT	INPUT CURRENT	Full load	280mA	112mA	55mA	28mA	280mA	112mA	55mA	28mA	
INPUT	INPUT CURRENT	No load	21mA	11mA	10mA	3mA	21mA	11mA	10mA	3mA	
	FILTER		Capacitor type								
	PROTECTION		Fuse recommended								
	OVERLOAD		Momentary								
PROTECTION			Protection type: Broken								
	SHORT CIRCUIT		Momentary								
			Protection type: Broken								
WORKING TEMP.		-25 ~ +71°C (Refer to "Derating Curve")									
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-25~+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 &	WITHSTAND VOLTAGE		I/P-O/P:1KVDC								
	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	ISOLATION CAPAC	ITANCE	80pF max.								
	EMC EMISSION		Compliance to EN55022 Class B, FCC part 15 Class B								
	EMC IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A								
OTHERS	MTBF		700khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION		22.6*9.9*8.4mm or 0.89"*0.39"*0.33" inch (L*W*H)								
	WEIGHT		3.1g								

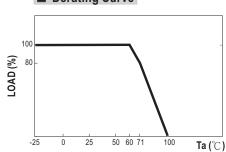
### ■ Mechanical Specification



## **■** Pin Configuration

Pin No.	Output				
1 & 16	+Vin				
6 & 11	-Vout				
7 & 10	+Vout				
8 & 9	-Vin				

# ■ 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.