



■ Features :

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

FC CE

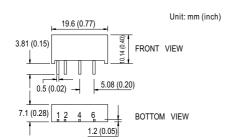
ORDER NO.		SPR01L-05	SPR01M-05	SPR01N-05	SPR010-05	SPR01L-09	SPR01M-09	SPR01N-09	SPR010-09
	DC OUTPUT VOLTAGE	5V				9V			
	INPUT CURRENT RANGE	0 ~ 200mA				0 ~ 100mA			
	EFFICIENCY	57%	65%	62%	62%	57%	60%	60%	56%
ORDER NO.		SPR01L-12	SPR01M-12	SPR01N-12	SPR010-12	SPR01L-15	SPR01M-15	SPR01N-15	SPR010-15
	DC OUTPUT VOLTAGE	12V				15V			
	INPUT CURRENT RANGE	0 ~ 84mA				0 ~ 67mA			
	EFFICIENCY	58%	60%	60%	58%	60%	62%	60%	58%

SPECIFICATION

SELECTION GUIDE

OI LOII IO	of Edit Idation										
	RATED POWER		1W								
ОИТРИТ	RIPPLE & NOISE (max.) Note.2		100mVp-p								
	LINE REGULATION		±1.0%								
	LOAD REGULATION	Note.3	±1.0%								
	VOLTAGE ACCURACY		±2.0%(Typ.) ±3.0%(max.)								
	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	
INPUT	NORMAL VOLTAGE		5V	12V	24V	48V	5V	12V	24V	48V	
	INPUT CURRENT	Full load	350mA	141mA	67mA	35mA	350mA	141mA	67mA	35mA	
		No load	32mA	15mA	10mA	6mA	32mA	15mA	10mA	6mA	
	FILTER		Capacitor type								
	PROTECTION		Fuse recommended								
PROTECTION (Note. 4)	OVERLOAD		Momentary								
			Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		Momentary								
			Protection type: Hiccup mode, recovers automatically after fault condition is removed								
	WORKING TEMP.		-25 ~ +71°C (Refer to output load derating curve)								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
ENVIRONMENT	STORAGE TEMP., HUMIDITY		-25~+105℃,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								
	WITHSTAND VOLTAGE		I/P-O/P:1KVDC								
SAFETY & EMC	ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH								
	ISOLATION CAPACITANCE		80pF max.								
	EMI CONDUCTION & RADIATION										
	EMS IMMUNITY		Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A								
	MTBF		700khrs min. MIL-HDBK-217F(25°C)								
OTHERS	DIMENSION		19.6*7.1*10.2mm or 0.77"*0.28"*0.40" inch (L*W*H)								
	WEIGHT		2.3g								

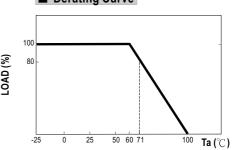
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output			
1	+Vin			
2	-Vin			
4	-Vout			
6	+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.Load regulation is measured from 10% to 100% rated load.
- 4.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.