



- Features :
 - Internal SMD technology
 - 1000VDC I/O isolation
 - 3000VDC isolation is available
 - Input filter: Capacitor type
 - Non-conductive plastic case
 - Single in line package
 - DIP packge is available
 - High reliability / Low cost
 - 100% burn-in test
 - 1 year warranty

SELECTION GUIDE

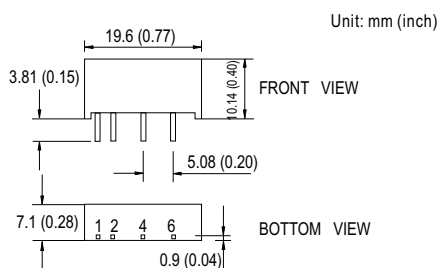
ORDER NO.	SPR01L-05	SPR01M-05	SPR01N-05	SPR01O-05	SPR01L-09	SPR01M-09	SPR01N-09	SPR01O-09
DC OUTPUT VOLTAGE	5V				9V			
INPUT CURRENT RANGE	0 ~ 200mA				0 ~ 100mA			
EFFICIENCY	57%	59%	62%	62%	58%	60%	60%	60%

ORDER NO.	SPR01L-12	SPR01M-12	SPR01N-12	SPR01O-12	SPR01L-15	SPR01M-15	SPR01N-15	SPR01O-15
DC OUTPUT VOLTAGE	12V				15V			
INPUT CURRENT RANGE	0 ~ 84mA				0 ~ 67mA			
EFFICIENCY	61%	62%	63%	63%	62%	63%	63%	63%

SPECIFICATION

OUTPUT	RATED POWER	1W								
	RIPPLE & NOISE (max.) Note.2	100mVp-p								
	LINE REGULATION	±1%								
	LOAD REGULATION Note.3	±1%								
	VOLTAGE ACCURACY	±2%								
	SWITCHING FREQUENCY	50KHz min.								
INPUT	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 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 (Note. 4)	OVER LOAD	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								
ENVIRONMENT	WORKING TEMP.	-25~+71°C (Refer to output load derating curve)								
	WORKING HUMIDITY	20%~90% RH non-condensing								
	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 & EMC	WITHSTAND VOLTAGE	I/P-O/P: 1KVDC								
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC								
	ISOLATION CAPACITANCE	80pF max.								
OTHERS	MTBF	700khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION	19.6*7.1*10.2mm or 0.77**0.28**0.40" inch (L*W*H)								
	WEIGHT	2.3g								

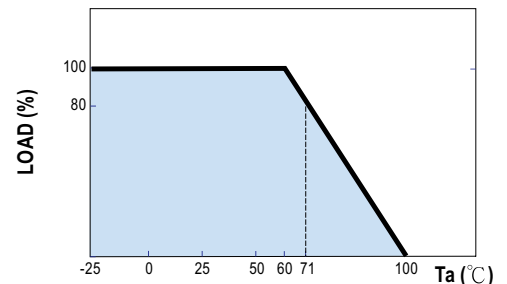
Mechanical Specification



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.