

Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from, Europe, America and south Asia, supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

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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
- 100% burn-in test
- · Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

SELECTION GUIDE

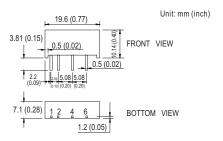
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ORDER NO.	SPR01L-05	SPR01M-05	SPR01N-05	SPR010-05	SPR01L-09	SPR01M-09	SPR01N-09	SPR010-09
DC OUTPUT VOLTAGE	5V				9V			
OUTPUT CURRENT RANGE	0 ~ 200mA				0 ~ 100mA			
EFFICIENCY	57%	65%	62%	62%	57%	60%	60%	56%
ORDER NO.	SPR01L-12	SPR01M-12	SPR01N-12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

SPECIFICATION

	RATED POWER		1W								
	RIPPLE & NOISE (max.) Note.2		100mVp-p								
ОИТРИТ	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		
	NORMAL VOLTAGE		5V	12V	24V	48V	5V	12V	24V	48V	
	INPUT CURRENT	Full load	350mA	141mA	67mA	35mA	350mA	141mA	67mA	35mA	
	INPUT CORRENT	No load	32mA	15mA	10mA	6mA	32mA	15mA	10mA	6mA	
	FILTER		Capacitor type								
	PROTECTION		Fuse recommended								
PROTECTION	OVERLOAD		>110% rated output power								
			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	SHORT CIRCUIT		All output equipped with short circuit								
			Protection type : Hiccup mode, recovers automatically after fault condition is removed								
	WORKING TEMP.		-25 ~ +71°C (Refer to "Derating Curve")								
	WORKING HUMIDITY		20%~90% RH non-condensing								
ENVIRONMENT	NVIRONMENT 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 STANDARDS		EAC TP TC 004 approved								
	WITHSTAND VOLTAGE		I/P-O/P:1KVDC								
SAFETY & ISOLATION RESISTANCE		I/P-O/P: 100M Ohms / 500VDC / 25℃ / 70% RH									
EMC	ISOLATION CAPACITANCE		80pF max.								
	EMC EMISSION		Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020								
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020									
	MTBF		700khrs min. MIL-HDBK-217F(25℃)								
OTHERS			19.6*7.1*10.2mm or 0.77"*0.28"*0.40" inch (L*W*H)								
	WEIGHT	2.3g									

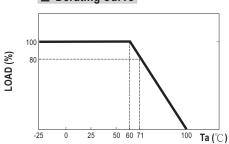
■ Mechanical Specification



■ 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.