



## Features:

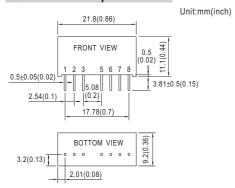
- 2:1 wide input range
- 1000VDC I/O isolation
- Built-in remote ON/OFF control
- · Built-in EMI filter
- · Protections: Short circuit / Overload
- · Cooling by free air convection
- Single in line package
- 100% full load burn-in test
- · Low cost / High reliability
- Modified models available: output 3.3V/9V
- 2 years warranty

## **SPECIFICATION**



ORDER NO.		SPB03E-05	SPB03A-05	SPB03B-05	SPB03C-05	SPB03E-12	SPB03A-12	SPB03B-12	SPB03C-12	SPB03E-15	SPB03A-15	SPB03B-1	SPB03C-15
ОИТРИТ	DC VOLTAGE	5V				12V			15V	15V			
	CURRENT RANGE	60 ~ 600mA			25 ~ 250mA				20 ~ 200mA				
	RATED POWER	3W				·							
	RIPPLE & NOISE (max.) Note.2	50mVp-p			60mVp-p			60mVp-p					
	LINE REGULATION Note.3	±0.5%	±0.5%										
	LOAD REGULATION Note.4	±0.5%											
	VOLTAGE ACCURACY	±2.0%											
	SWITCHING FREQUENCY	100KHz min.											
	VOLTAGE RANGE	E: 4.5 ~ 9VDC A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC											
INPUT	EFFICIENCY (Typ.)	74%	73%	77%	78%	76%	80%	80%	79%	75%	80%	80%	82%
	DC CURRENT	Full load	E: 810mA	A: 340m	A B: 165n	nA C: 85	mA						
	DC CORRENT	No load	E: 110mA	A: 40m	A B: 20m	A C: 10	mA						
	FILTER	Pi network											
	PROTECTION	Fuse reco	Fuse recommended										
PROTECTION (Note. 5)	OVERLOAD	150 ~ 250% rated output power											
	OVERLOAD	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											
ENVIRONMENT	WORKING TEMP.	-40 ~ +85°	40 ~ +85℃ (Refer to output load derating curve)										
	WORKING HUMIDITY	20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY	-40 ~ +105°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	WITHSTAND VOLTAGE	I/P-O/P:1KVDC											
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH											
	ISOLATION CAPACITANCE	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	REMOTE CONTROL		Power ON: R.C. ~ +Vin < 1VDC or open; Power OFF: R.C. ~ +Vin > 4VDC or short										
	MTBF		600Khrs min. MIL-HDBK-217F(25°C)										
	DIMENSION		21.8*9.2*11.1mm or 0.86"*0.36"*0.44" inch (L*W*H)										
	WEIGHT	4.8g											

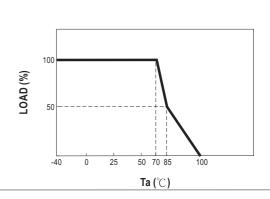
## ■ Mechanical Specification



## ■ Pin Configuration

Pin No.	Output					
1	-Vin					
2	+Vin					
3	R.C.					
5	N.C.					
6	+Vout					
7	-Vout					
8	N.C.					

# ■ 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 0.1 uf & 47 uf capacitor.
- 3.Line regulation is measured from low line to high line at rated load. 4.Load regulation is measured from 10% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.