



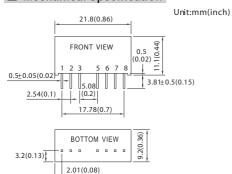
Features:

- 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

F© C E **SPECIFICATION**

ORDER NO.		SPB03E-05	SPB03A-05	SPB03B-05	SPB03C-0	SPB03E-12	SPB03A-12	SPB03B-12	SPB03C-1	2 SPB03E-15	SPB03A-15	SPB03B-15	SPB03C-15	
DC VOLTAGE		5V			12V			15V						
OUTPUT	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%												
	LOAD REGULATION Note.4	±0.5%												
	VOLTAGE ACCURACY	±2.0%												
	SWITCHING FREQUENCY	100KHz min.												
INPUT	VOLTAGE RANGE	E: 4.5 ~ 9VDC A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC												
	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: 85n	nΑ							
	DO CONNENT	No load E: 110mA A: 40mA B: 20mA C: 10mA												
	FILTER	Pi network												
	PROTECTION	Fuse recommended												
PROTECTION (Note. 5)	OVERLOAD	150 ~ 250% rated output power												
	OVERLOND	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°C (Refer to output load derating curve)												
	WORKING HUMIDITY	20% ~ 90% RH non-condensing												
		-25 ~ +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℃ / 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												
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* 0.44inch (L*W*H)												
	WEIGHT	4.8g												

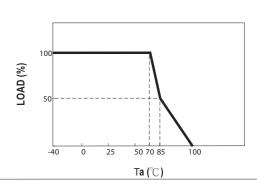
■ Mechanical Specification



■ 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

- 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 10% to 100% rated load.

 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.