

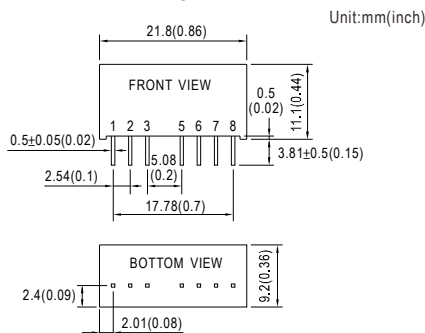
- Features :
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Single in line package
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 3.3V/9V
- 2 years warranty



**SPECIFICATION**

ORDER NO.	SPB05A-05	SPB05B-05	SPB05C-05	SPB05A-12	SPB05B-12	SPB05C-12	SPB05A-15	SPB05B-15	SPB05C-15	
<b>OUTPUT</b>	DC VOLTAGE	5V			12V			15V		
	CURRENT RANGE	100 ~ 1000mA			42 ~ 417mA			33 ~ 333mA		
	RATED POWER	5W								
	RIPPLE & NOISE (max.) Note.2	80mVp-p			90mVp-p			90mVp-p		
	LINE REGULATION Note.3	±0.5%								
	LOAD REGULATION Note.4	±0.5%								
	VOLTAGE ACCURACY	±2.0%								
	SWITCHING FREQUENCY	100KHz min.								
EXTERNAL CAPACITANCE LOAD (max.)	220uF									
<b>INPUT</b>	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC								
	EFFICIENCY (Typ.)	81%	83%	83%	85%	85%	85%	84%	85%	85%
	DC CURRENT	Full load A: 515mA B: 250mA C: 125mA No load A: 40mA B: 25mA C: 15mA								
	FILTER	Capacitor Type								
	REMOTE CONTROL	Power ON : R.C. ~ -Vin < 1VDC or open ; Power OFF : R.C. ~ -Vin > 4VDC or short								
	PROTECTION	Fuse recommended A: 1000mA B: 600mA C: 300mA Slow-Blow Type								
<b>PROTECTION (Note. 5)</b>	OVERLOAD	150 ~ 250% rated output power Protection type : Recovers automatically after fault condition is removed								
	SHORT CIRCUIT	All output equipped with short circuit Protection type : Recovers automatically after fault condition is removed								
<b>ENVIRONMENT</b>	WORKING TEMP.	-40 ~ +80°C (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-55 ~ +105°C, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.05% / °C (0 ~ 55°C)								
	VIBRATION	10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes								
<b>SAFETY</b>	WITHSTAND VOLTAGE	I/P-O/P: 1.5KVDC								
	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									
<b>OTHERS</b>	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								

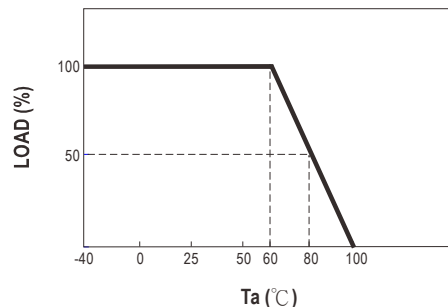
■ Mechanical Specification



■ 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 0.1uF & 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.