

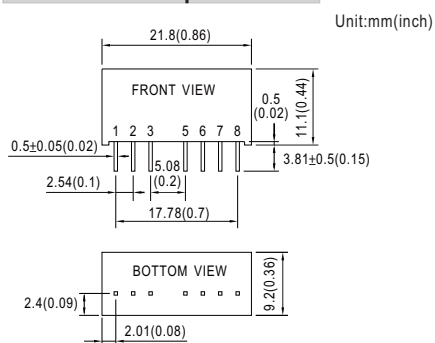
- Features :
 - 2:1 wide input range
 - 1500VDC I/O isolation
 - Built-in remote ON/OFF control
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - Modified models 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
OUTPUT	DC VOLTAGE			12V			15V		
	CURRENT RANGE			42 ~ 417mA			33 ~ 333mA		
	RATED POWER			5W					
	RIPPLE & NOISE (max.) Note.2			80mVp-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						
INPUT	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									
PROTECTION									
Fuse recommended A: 1000mA B: 600mA C: 300mA Slow-Blow Type									
PROTECTION (Note. 5)	OVERLOAD								
	150 ~ 250% rated output power Protection type : Recovers automatically after fault condition is removed								
PROTECTION (Note. 5)	SHORT CIRCUIT								
	All output equipped with short circuit Protection type : Recovers automatically after fault condition is removed								
ENVIRONMENT	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									
ENVIRONMENT	TEMP. COEFFICIENT								
	±0.05% / °C (0 ~ 55°C)								
	VIBRATION								
10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes									
SAFETY	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.									
SAFETY	EMC EMISSION								
	Compliance to EN55032 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	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									

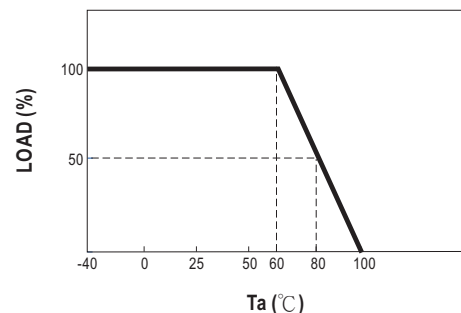
■ Mechanical Specification



■ 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.