

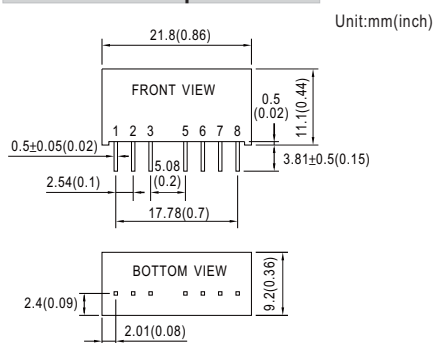
- Features :
 - 2:1 wide input range
 - 1500VDC I/O isolation
 - Built-in remote ON/OFF control
 - Built-in EMI filter
 - Protections: Short circuit / Overload
 - Cooling by free air convection
 - Single in line package
 - 100% full load burn-in test
 - Low cost / High reliability
 - Modified models 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		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								
INPUT	VOLTAGE RANGE		A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC							
	EFFICIENCY (Typ.)		81%	83%	83%	85%	85%	85%	84%	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							
	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							
	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.							
	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	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							

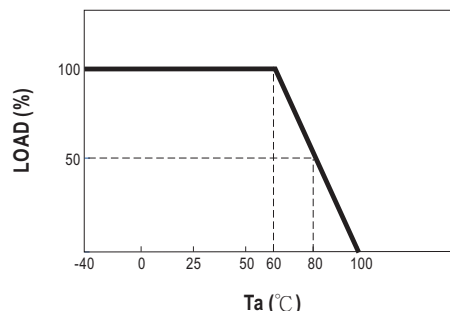
Mechanical Specification



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.

