

#### ■ Features :

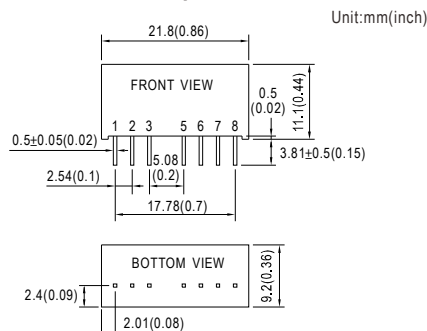
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Single in line package
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 3.3V/9V
- 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.) <small>Note.2</small>	80mVp-p			90mVp-p			90mVp-p		
	LINE REGULATION <small>Note.3</small>	±0.5%								
	LOAD REGULATION <small>Note.4</small>	±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 or short								
	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℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY	-55 ~ +105℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT	±0.05% / ℃ (0 ~ 55℃)								
	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℃ / 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℃)								
	DIMENSION	21.8*9.2*11.1mm or 0.86**0.36**0.44" inch (L*W*H)								
	WEIGHT	4.8g								

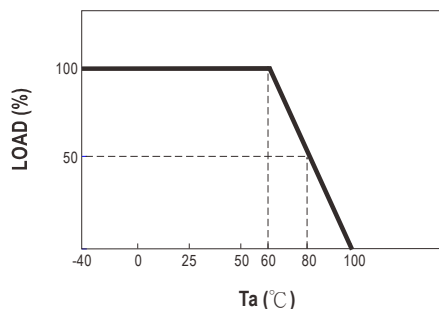
#### ■ Mechanical Specification



#### ■ 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.

# Mouser Electronics

Authorized Distributor

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