



- 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
 - 2 years warranty

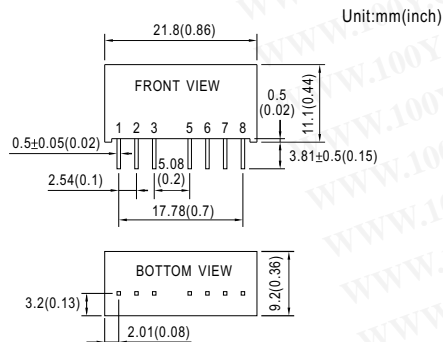
勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-54151736
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)



SPECIFICATION

ORDER NO.	SPB03E-05	SPB03A-05	SPB03B-05	SPB03C-05	SPB03E-12	SPB03A-12	SPB03B-12	SPB03C-12	SPB03E-15	SPB03A-15	SPB03B-15	SPB03C-15					
OUTPUT	DC VOLTAGE				12V				15V								
	CURRENT RANGE				25 ~ 250mA				20 ~ 200mA								
	RATED POWER				3W												
	RIPPLE & NOISE (max.) Note.2				50mVp-p				60mVp-p								
	LINE REGULATION Note.3				±0.5%												
	LOAD REGULATION Note.4				±0.5%												
	VOLTAGE ACCURACY				±2.0%												
INPUT	SWITCHING FREQUENCY				100KHz min.												
	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%	80%	82%
	DC CURRENT				Full load E: 810mA A: 340mA B: 165mA C: 85mA												
					No load E: 110mA A: 40mA B: 20mA C: 10mA												
PROTECTION (Note. 5)	FILTER				Pi network												
	PROTECTION				Fuse recommended												
	OVERLOAD				150 ~ 250% rated output power												
				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												
	STORAGE TEMP., HUMIDITY				-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°C / 70% RH												
	ISOLATION CAPACITANCE				80pF max.												
	EMI CONDUCTION & RADIATION				Compliance to EN55022 Class B, FCC part 15 Class B												
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**0.44" inch (L*W*H)												
	WEIGHT				4.8g												

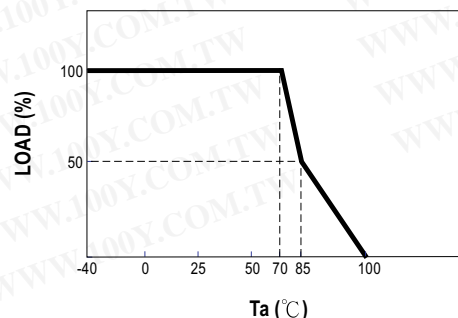
Mechanical Specification



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.