

■ Features :

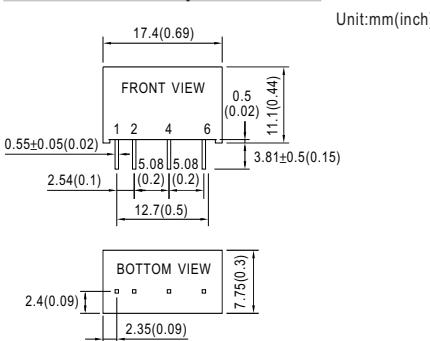
- Single in line package
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in EMI filter without external components
- Protections: Short circuit / Overload
- Cooling by free air convection
- 100% full load burn-in test
- Low cost / High reliability
- 2 years warranty

SPECIFICATION



ORDER NO.	SPA01A-05	SPA01B-05	SPA01C-05	SPA01A-12	SPA01B-12	SPA01C-12	SPA01A-15	SPA01B-15	SPA01C-15
OUTPUT	DC VOLTAGE	5V		12V			15V		
	CURRENT RANGE	20 ~ 200mA		8 ~ 83mA			6 ~ 67mA		
	RATED POWER	1W							
	RIPPLE & NOISE (max.) Note.2	60mVp-p		80mVp-p			80mVp-p		
	LINE REGULATION Note.3	±0.5%							
	LOAD REGULATION Note.4	±0.5%							
	VOLTAGE ACCURACY	±2.0%							
INPUT	SWITCHING FREQUENCY	100KHz min.							
	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC							
	EFFICIENCY (Typ.)	77%	77%	77%	78%	78%	79%	79%	79%
	DC CURRENT	Full load A: 110mA B: 55mA C: 27mA							
		No load A: 20mA B: 10mA C: 7mA							
	FILTER	Capacitor Type							
	PROTECTION	Fuse recommended							
PROTECTION (Note. 5)	OVERLOAD	130 ~ 200% rated output power							
		Protection type : Recovers automatically after fault condition is removed							
ENVIRONMENT	SHORT CIRCUIT	All output equipped with short circuit							
		Protection type : Recovers automatically after fault condition is removed							
SAFETY	WORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-40 ~ +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							
OTHERS	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							
MTBF	500Khrs min. MIL-HDBK-217F(25°C)								
DIMENSION	17.4*7.75*11.1mm or 0.69*0.30*0.44" inch (L*W*H)								
WEIGHT	3g								

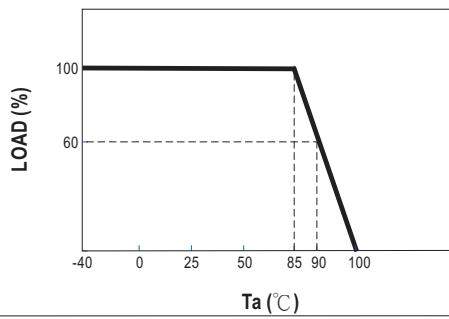
■ Mechanical Specification



■ Pin Configuration

Pin No.	Output
1	-Vin
2	+Vin
4	+Vout
6	-Vout

■ 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.