



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

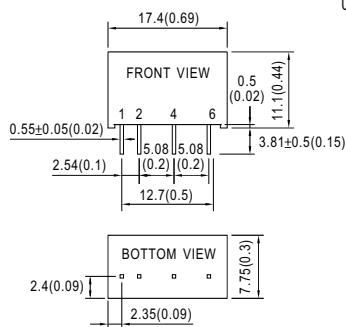


SPECIFICATION

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.) <small>Note.2</small>	60mVp-p			80mVp-p			80mVp-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.									
INPUT	VOLTAGE RANGE		A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC								
	EFFICIENCY (Typ.)		77%	77%	77%	78%	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								
	SHORT CIRCUIT		All output equipped with short circuit Protection type : Recovers automatically after fault condition is removed								
ENVIRONMENT	WORKING TEMP.		-40 ~ +90℃ (Refer to "Derating Curve")								
	WORKING HUMIDITY		20% ~ 90% RH non-condensing								
	STORAGE TEMP., HUMIDITY		-40 ~ +105℃, 10 ~ 95% RH								
	TEMP. COEFFICIENT		±0.05% / °C (0 ~ 50℃)								
	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		500Khrs min. MIL-HDBK-217F(25℃)								
	DIMENSION		17.4*7.75*11.1mm or 0.69**0.30**0.44" inch (L*W*H)								
	WEIGHT		3g								

Mechanical Specification

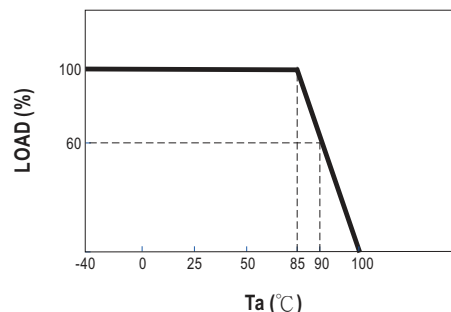
Unit:mm(inch)



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.