



## 9.9~15W DC-DC Regulated Single Output Converter

## SKA15 series



### Features :

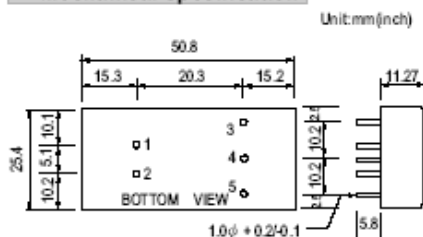
- 2:1 wide input range
- 4:1 wide input range(option)
- 1000VDC I/O isolation
- 3000VDC I/O isolation(option)
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty



### SPECIFICATION

ORDER NO.	SKA15A-033	SKA15B-033	SKA15C-033	SKA15A-05	SKA15B-05	SKA15C-05	SKA15A-12	SKA15B-12	SKA15C-12	SKA15A-15	SKA15B-15	SKA15C-15
OUTPUT	DC VOLTAGE	3.3V			5V			12V			15V	
	CURRENT RANGE	300 ~ 3000mA			300 ~ 3000mA			125 ~ 1250mA			100 ~ 1000mA	
	RATED POWER	9.9W			15W							
	RIPPLE & NOISE (max.) Note.2	50mVp-p			50mVp-p			60mVp-p			60mVp-p	
	LINE REGULATION Note.3	±0.2%										
	LOAD REGULATION Note.4	±0.5%										
	VOLTAGE ACCURACY	±2.0%										
	SWITCHING FREQUENCY	150KHz min.										
INPUT	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC										
	EFFICIENCY (Typ.)	76%	76%	76%	78%	78%	80%	82%	80%	82%	82%	82%
	DC CURRENT	Full load A: 1700mA B: 800mA C: 400mA No load A: 20mA B: 30mA C: 15mA										
	FILTER	Pi network										
	PROTECTION	Fuse recommended										
PROTECTION (Note. 5)	OVER CURRENT	110% ~ 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.	-25 ~ +71°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	±0.03% / °C (0 ~ 50°C)										
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes										
SAFETY & EMC	WITHSTAND VOLTAGE	I/P-O/P: 1KVDC										
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH										
	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	MTBF	300Khrs min. MIL-HDBK-217F(25°C)										
	DIMENSION	50.8*25.4*11.27 mm or 2**1**0.44" inch (L*W*H)										
	WEIGHT	32g										

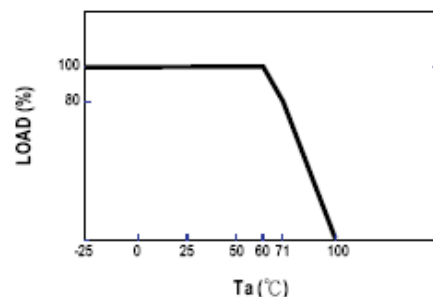
### Mechanical Specification



### Pin Configuration

Pin No.	Output
1	+Vin
2	-Vin
3	+Vout
4	No Pin
5	-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.