

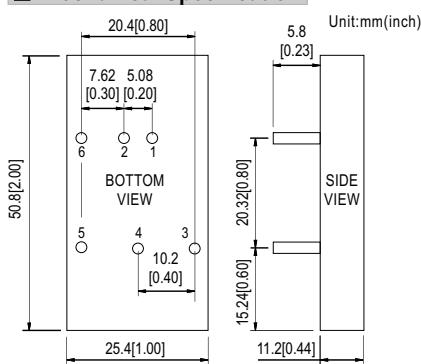

■ Features :

- 2"x1" compact size
- 2:1 wide input range
- High efficiency up to 89.5%
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in trimming output
- Built-in EMI filter
- Protections: Short circuit / Overload / Input and Output Over voltage
- Cooling by free air convection
- Six-sided shield metal case
- 100% burn-in test
- Low cost / High reliability
- Approvals: FCC / CE
- 2 years warranty

FCC CE

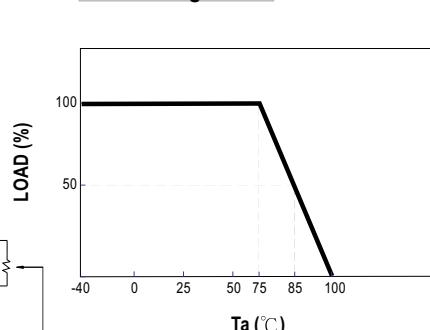
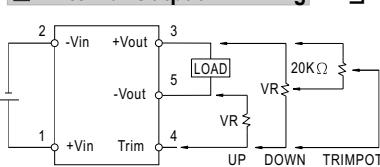
SPECIFICATION

ORDER NO.	SKA20A-05	SKA20B-05	SKA20C-05	SKA20A-12	SKA20B-12	SKA20C-12	SKA20A-15	SKA20B-15	SKA20C-15
OUTPUT	DC VOLTAGE	5V		12V			15V		
	CURRENT RANGE	400 ~ 4000mA		166 ~ 1666mA			133 ~ 1333mA		
	RATED POWER	20W							
	RIPPLE & NOISE (max.) Note.2	50mVp-p		60mVp-p			60mVp-p		
	LINE REGULATION Note.3	±0.2%							
	LOAD REGULATION Note.4	±0.5%							
	VOLTAGE ACCURACY	±2.0%							
	SWITCHING FREQUENCY	300KHz typ.							
	EXTERNAL CAPACITANCE LOAD (max.)	1000uF		220uF			100uF		
INPUT	EXTERNAL TRIM Adj. RANGE(Typ.)	±10%		-20 ~ +10%			-20 ~ +10%		
	VOLTAGE RANGE	A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC							
	EFFICIENCY (Typ.)	87.5%	88%	88.5%	88%	88.5%	87.5%	89%	89.5%
	DC CURRENT	Full load 1910mA	970mA	490mA	1910mA	970mA	500mA	1870mA	950mA
		No load 80mA	55mA	40mA	35mA	25mA	15mA	35mA	25mA
PROTECTION (Note. 5)	FILTER	Pi network							
	REMOTE CONTROL	Power ON : R.C ~ -Vin > 2.5VDC or open circuit ; Power OFF : R.C ~ -Vin < 0.5VDC or short							
	PROTECTION	Fuse recommended							
	OVER CURRENT	110% ~ 180% rated output power							
ENVIRONMENT	SHORT CIRCUIT	Protection type : Hiccup mode, recovers automatically after fault condition is removed							
	OVER VOLTAGE	Input(Typ.) A: >20 ~ 23VDC B: >40 ~ 43VDC C: >80 ~ 82VDC input voltage							
	Output	Protection type : Shut down o/p voltage, recovers automatically after fault condition is removed							
SAFETY & EMC	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")							
	WORKING HUMIDITY	20% ~ 90% RH non-condensing							
	STORAGE TEMP., HUMIDITY	-55 ~ +125°C, 10 ~ 95% RH							
	TEMP. COEFFICIENT	±0.03% / °C (0 ~ 50°C)							
OTHERS	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes							
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC							
	ISOLATION RESISTANCE	I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
	EMC EMISSION	Compliance to EN55022 Class A, FCC part 15 Class A							
	EMC IMMUNITY	Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A							
	MTBF	700Khrs min. MIL-HDBK-217F(25°C)							
DIMENSION	DIMENSION	50.8*25.4*11.2 mm or 2**1**0.44" inch (L*W*H)							
	WEIGHT	31.2g							

■ Mechanical Specification

■ Pin Configuration

Pin No.	Output	Pin No.	Output
1	+Vin	4	Trim
2	-Vin	5	-Vout
3	+Vout	6	R.C

 NOTE: Pin Size is Tolerance 1.0 ϕ ±0.10mm

■ Derating Curve

■ External Output Trimming

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.