



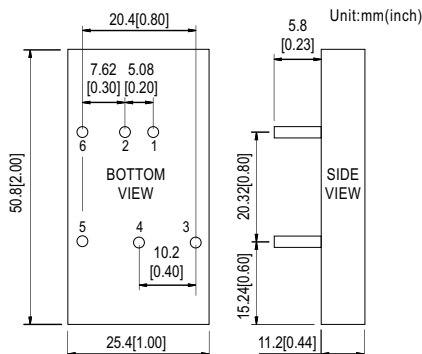
- Features :
 - 2"x1" compact size
 - 2:1 wide input range
 - High efficiency up to 89.5%
 - 1500VDC I/O isolation
 - Built-in remote ON/OFF control
 - Built-in trimming output
 - Built-in EMI filter
 - Protections: Short circuit / Overload / Input and Output Over voltage
 - Cooling by free air convection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



SPECIFICATION

ORDER NO.	SKA20A-05	SKA20B-05	SKA20C-05	SKA20A-12	SKA20B-12	SKA20C-12	SKA20A-15	SKA20B-15	SKA20C-15			
OUTPUT	DC VOLTAGE			12V			15V					
	CURRENT RANGE			166 ~ 1666mA			133 ~ 1333mA					
	RATED POWER 20W											
	RIPPLE & NOISE (max.) Note.2			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.)			220uF			100uF					
EXTERNAL TRIM Adj. RANGE(Typ.)			-20 ~ +10%			-20 ~ +10%						
INPUT	VOLTAGE RANGE A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 75VDC											
	EFFICIENCY (Typ.)											
	DC CURRENT	Full load		1910mA	970mA	490mA	1910mA	970mA	500mA	1870mA	950mA	490mA
		No load		80mA	55mA	40mA	35mA	25mA	15mA	35mA	25mA	15mA
	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												
PROTECTION (Note. 5)	OVER CURRENT 110% ~ 180% 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											
	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								
ENVIRONMENT	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)											
	VIBRATION 10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes											
SAFETY & EMC	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											
OTHERS	MTBF 700Khrs min. MIL-HDBK-217F(25°C)											
	DIMENSION 50.8*25.4*11.2 mm or 2**1**0.44" inch (L*W*H)											
	WEIGHT 31.2g											

Mechanical Specification

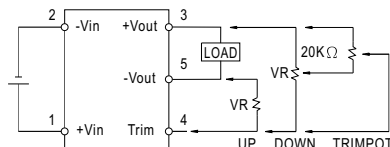


Pin Configuration

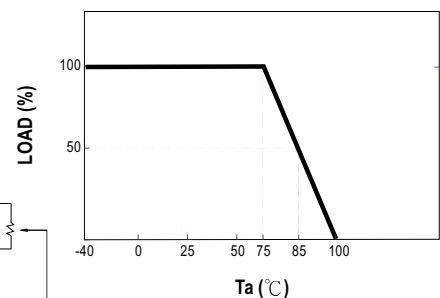
Pin No.	Output	Pin No.	Output
1	+Vin	4	Trim
2	-Vin	5	-Vout
3	+Vout	6	R.C

NOTE: Pin Size is Tolerance 1.0 φ ±0.10mm

External Output Trimming



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.