



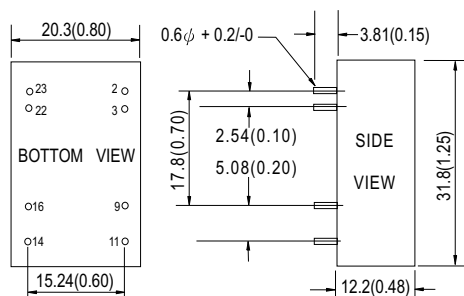
- Features :
- 2:1 wide input range
  - 4:1 wide input range(optional)
  - 1000VDC I/O isolation
  - Input Pi network filter
  - Protections: Short circuit / Over load
  - Free air convection
  - Five-sided shield metal case
  - High reliability/ Low cost
  - 100% burn-in test
  - 1 year warranty

## SPECIFICATION

ORDER NO.	SCW03A-05	SCW03B-05	SCW03C-05	SCW03A-12	SCW03B-12	SCW03C-12	SCW03A-15	SCW03B-15	SCW03C-15
OUTPUT	DC VOLTAGE			12V			15V		
	CURRENT RANGE			25 ~ 250mA			20 ~ 200mA		
	RATED POWER			3W					
	RIPPLE & NOISE (max.) Note.2			50mVp-p			60mVp-p		
	LINE REGULATION Note.3			±0.5%					
	LOAD REGULATION Note.4			±0.5%					
	VOLTAGE ACCURACY			±2.0%					
	SWITCHING FREQUENCY			50KHz min.					
INPUT	VOLTAGE RANGE								
	A: 9 ~ 18VDC B: 18~36VDC C: 36~72VDC								
	EFFICIENCY (Typ.)								
	74% 75% 76% 80% 80% 82% 80% 80% 82%								
DC CURRENT			Full load A: 338mA B: 167mA C: 83mA						
			No load A: 18mA B: 10mA C: 5mA						
FILTER			Pi network						
PROTECTION (Note.5)	OVER LOAD								
	160~250% 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./1 cycle, period for 60min. each along X, Y, Z axes									
SAFETY	WITHSTAND VOLTAGE								
	I/P-O/P:1KVDC								
	ISOLATION RESISTANCE								
I/P-O/P: 100M Ohms / 500VDC									
ISOLATION CAPACITANCE									
80pF max.									
OTHERS	MTBF								
	900khrs min. MIL-HDBK-217F(25°C)								
	DIMENSION								
31.8*20.3*12.2mm or 1.25"*0.80"*0.48" inch (L*W*H)									
WEIGHT									
15g									

### Mechanical Specification

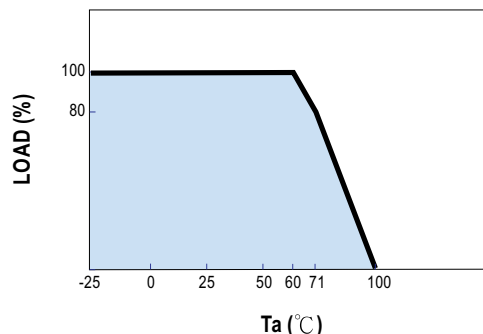
Unit:mm(inch)



### Pin Configuration

Pin no.	Output Single
2 & 3	-Vin
9	N.C.
11	N.C.
14	+Vout
16	-Vout
22 & 23	+Vin

### 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.