



- 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
  - Five-sided shield metal case
  - 100% burn-in test
  - Low cost / High reliability
  - Approvals: FCC / CE
  - 2 years warranty

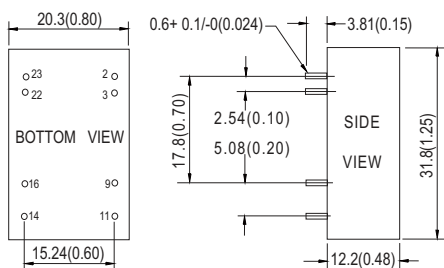


## SPECIFICATION

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			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			Fuse recommended											
PROTECTION (Note. 5)	OVERLOAD			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.			-40 ~ +71°C (Refer to "Derating Curve")											
	WORKING HUMIDITY			20% ~ 90% RH non-condensing											
	STORAGE TEMP., HUMIDITY			-40 ~ +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 & EMC	SAFETY STANDARDS			EAC TP TC 004 approved											
	WITHSTAND VOLTAGE			I/P-O/P: 1KVDC											
	ISOLATION RESISTANCE			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH											
	ISOLATION CAPACITANCE			80pF max.											
	EMC EMISSION			Compliance to EN55032 Class B, FCC part 15 Class B, EAC TP TC 020											
	EMC IMMUNITY			Compliance to EN61000-4-2,3,4,5,6,8, light industry level, criteria A, EAC TP TC 020											
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)

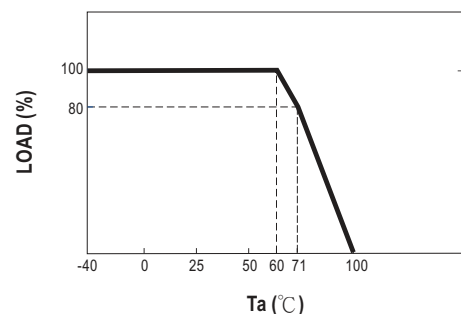


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

### Pin Configuration

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

### Derating Curve



### NOTE

- All parameters are specified at normal input, rated load, 25°C 70% RH ambient.
- Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1uf & 47uf capacitor.
- Line regulation is measured from low line to high line at rated load.
- Load regulation is measured from 10% to 100% rated load.
- Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.