



3W DC-DC Regulated Single Output Converter

SCW03 series



■ Features :

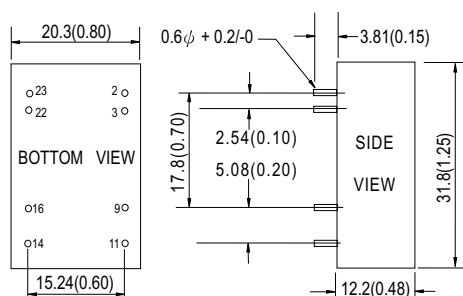
- 2:1 wide input range
- 4:1 wide input range(optional)
- 1000VDC I/O isolation
- Input Pi network filter
- Protections: Short circuit / Over load
- Free air convection
- Five-sided shield metal case
- High reliability/ Low cost
- 100% burn-in test
- 1 year warranty

SPECIFICATION

ORDER NO.	SCW03A-05	SCW03B-05	SCW03C-05	SCW03A-12	SCW03B-12	SCW03C-12	SCW03A-15	SCW03B-15	SCW03C-15	
OUTPUT	DC VOLTAGE	5V			12V			15V		
	CURRENT RANGE	60 ~ 600mA			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 (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

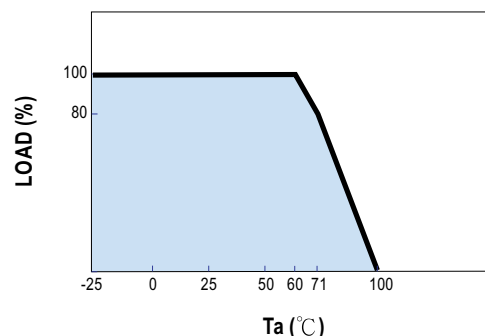
Unit:mm(inch)



■ 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.