



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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■ Features :

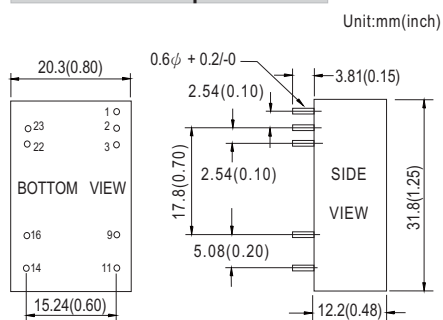
- 2:1 wide input range
- 1500VDC I/O isolation
- Built-in remote ON/OFF control
- Built-in EMI filter
- Protections: Short circuit / Overload
- Cooling by free air convection
- Five-sided shield metal case
- 100% full load burn-in test
- Low cost / High reliability
- Modified models available: output 2.5V/3.3V
- 2 years warranty



SPECIFICATION

ORDER NO.	SCW12A-05	SCW12B-05	SCW12C-05	SCW12A-12	SCW12B-12	SCW12C-12	SCW12A-15	SCW12B-15	SCW12C-15		
OUTPUT	DC VOLTAGE			12V			15V				
	CURRENT RANGE			200 ~ 1000mA			160 ~ 800mA				
	RATED POWER			12W							
	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			400KHz min.							
INPUT	EXTERNAL CAPACITANCE LOAD (max.)			1000uF			220uF				
	VOLTAGE RANGE			A: 9 ~ 18VDC B: 18 ~ 36VDC C: 36 ~ 72VDC							
	EFFICIENCY (Typ.)			82%	83%	84%	82%	83%	82%	85%	83%
	DC CURRENT			Full load A: 1245mA B: 625mA C: 320mA No load A: 70mA B: 35mA C: 25mA							
	FILTER			Pi network							
PROTECTION			Fuse recommended								
PROTECTION (Note. 5)	OVERLOAD			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							
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			±0.05% / °C (0 ~ 50°C)							
	VIBRATION			10 ~ 500Hz, 2G 10min./1 cycle, period for 60min. each along X, Y, Z axes							
SAFETY	SAFETY STANDARDS			EAC TP TC 004 approved							
	WITHSTAND VOLTAGE			I/P-O/P: 1.5KVDC							
	ISOLATION RESISTANCE			I/P-O/P: 100M Ohms / 500VDC / 25°C / 70% RH							
	ISOLATION CAPACITANCE			2200pF max.							
	EMC EMISSION			Compliance to EN55032 Class A, FCC part 15 Class A, 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	REMOTE CONTROL			Power ON: R.C. ~ -Vin > 4VDC or open ; Power OFF: R.C. ~ -Vin < 1VDC or short							
	MTBF			600Khrs 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			18.5g							

■ Mechanical Specification

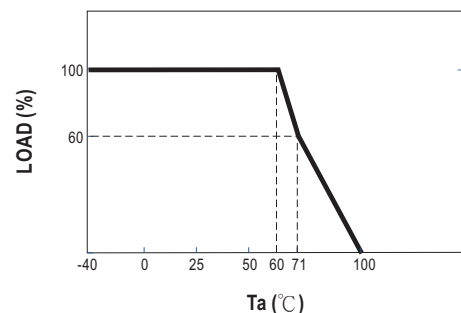


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

■ Pin Configuration

Pin No.	Output
1	R.C.
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 20% to 100% rated load.
- 5.Please prevent the converter from operating in overload or short circuit condition for more than 30 seconds.