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SCW03C-05

MEAN WELL

Isolated DC/DC Converters - Through Hole 3W 36-72Vin
5Vout/60-600mA

Any questions, please feel free to contact us.
info@kaimte.com



- 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

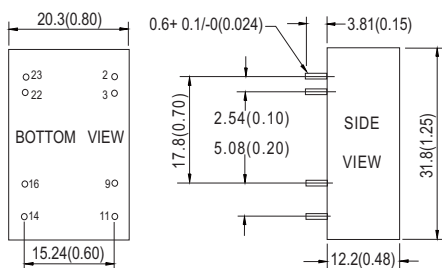


SPECIFICATION

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			
	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)

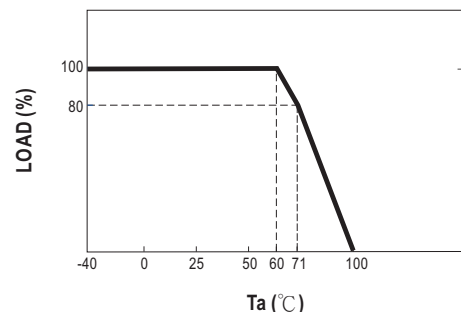


Pin Size is Tolerance 0.5±0.05mm, Tolerance .X or .XX= ±0.5mm

Pin Configuration

Pin no.	Output
2 & 3	-Vin
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.

Mouser Electronics

Authorized Distributor

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