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Features

- DIP24 package with industry standard pinout
- 2:1 wide input range
- Operating temperature range -40 ~ +90°C
- · No minimum load required
- Comply to BS EN/EN55032 radiated Class A without additional components
- High efficiency up to 87%
- Protections: Short circuit (Continuous) / Overload / Input under voltage
- · 3KVDC I/O isolation
- · 3 years warranty











Applications

- Telecom/datacom system
- · Wireless network
- · Industrial control facility
- Instrument
- Analyzer
- Detector
- · Data switch

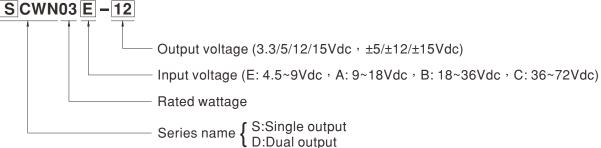
■ GTIN CODE

MW Search: https://www.meanwell.com/serviceGTIN.aspx

Description

SCWN03 and DCWN03 series are 3W isolated and regulated module type DC-DC converter with DIP24 package. It features international standard pins, a high efficiency up to 87%, wide working temperature range -40~+90°C, 3KVDC I/P-O/P isolation voltage, Compliance to BS EN/EN55032 radiated Class A without additional components, continuous-mode short circuit protection, etc. The additional components, models account for different input voltage 4.5~9V, 9~18V, 18~36V and 36~72V 2:1 wide input range, and various output voltage, 3.3V/5V/12V/15V for single output and $\pm 5V/\pm 12V/\pm 15V$ for dual outputs, which are suitable for all kinds of systems, Such as industrial control, telecommunication field, distributed power architecture, and so on.

■ Model Encoding



SCWN03 & DCWN03 series

MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	(111.)	(WAA.)
SCWN03E-03		15mA	550mA	3.3V	600mA	73%	2200µF
SCWN03E-05		15mA	779mA	5V	600mA	78%	2200µF
SCWN03E-12	5V (4.5 ~ 9V)	18mA	750mA	12V	250mA	80%	2200µF
SCWN03E-15		18mA	750mA	15V	200mA	81%	2200µF
DCWN03E-05		25mA	779mA	±5V	±0~300mA	77%	*1000µF
DCWN03E-12		25mA	750mA	±12V	±0 ~ 125mA	80%	*1000µF
DCWN03E-15		25mA	750mA	±15V	±0~100mA	80%	*1000µF
SCWN03A-03		5mA	212mA	3.3V	600mA	78%	2200µF
SCWN03A-05	12V (9 ~ 18V)	5mA	309mA	5V	600mA	82%	2200µF
SCWN03A-12		10mA	298mA	12V	250mA	84%	2200µF
SCWN03A-15		10mA	294mA	15V	200mA	85%	2200µF
DCWN03A-05		10mA	305mA	±5V	±0~300mA	82%	*1000µF
DCWN03A-12		12mA	298mA	±12V	±0 ~ 125mA	84%	*1000µF
DCWN03A-15		15mA	294mA	±15V	±0~100mA	85%	*1000µF
SCWN03B-03		5mA	106mA	3.3V	600mA	78%	2200µF
SCWN03B-05		5mA	152mA	5V	600mA	82%	2200µF
SCWN03B-12		7.5mA	145mA	12V	250mA	86%	2200µF
SCWN03B-15	24V (18 ~ 36V)	7.5mA	145mA	15V	200mA	86%	2200µF
DCWN03B-05		7.5mA	152mA	±5V	±0~300mA	82%	*1000µF
DCWN03B-12		10mA	147mA	±12V	±0 ~ 125mA	87%	*1000µF
DCWN03B-15		10mA	145mA	±15V	±0~100mA	87%	*1000µF
SCWN03C-03		3mA	52mA	3.3V	600mA	80%	2200µF
SCWN03C-05		3mA	74mA	5V	600mA	84%	2200µF
SCWN03C-12	48V (36~72V)	3mA	73mA	12V	250mA	86%	2200µF
SCWN03C-15		5mA	73mA	15V	200mA	87%	2200µF
DCWN03C-05		5mA	73mA	±5V	±0~300mA	85%	*1000µF
DCWN03C-12		5mA	73mA	±12V	±0 ~ 125mA	87%	*1000µF
DCWN03C-15		5mA	74mA	±15V	±0~100mA	87%	*1000µF

* For each output



3W DIP Package DC-DC Regulated Converter

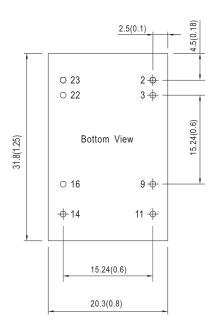
SCWN03 & DCWN03 series

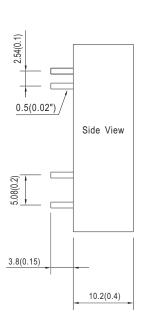
SPECIFICAT	TION									
	VOLTAGE RANGE	E: 4.5~9Vdc , A: 9~18Vdc , B: 18~36Vdc , C: 36~72Vdc								
INPUT	SURGE VOLTAGE (100ms max.)	5Vin models: 10Vdc; 12Vin models: 25Vdc; 24Vin models: 50Vdc; 48Vin models: 100Vdc								
	FILTER	Pi type								
	PROTECTION	Fuse recommended. 5Vin models: 1.5A	A Fast-Acting Type, 48Vin models: 250mA Fast-Acting Type							
	INTERNAL POWER DISSIPATION	500mW								
	VOLTAGE ACCURACY	±1.5%								
ОИТРИТ	RATED POWER	3W								
	RIPPLE & NOISE Note.2	50mVp-p	50mVp-p							
	LINE REGULATION Note.3	±0.5%	±0.5%							
	LOAD REGULATION Note.4	Single output models: $\pm 0.5\%$, Dual output models: $\pm 1\%$								
	SWITCHING FREQUENCY (Min.)	100KHz								
PROTECTION	SHORT CIRCUIT	Protection type : Continuous, automatic recovery								
	OVERLOAD	120 ~ 250% rated output power								
		Protection type : Recovers automatically after fault condition is removed								
	UNDER VOLTAGE LOCKOUT	Start-up voltage	5Vin: 4.4Vdc,	12Vin: 8.8Vdc	, 24Vin: 17Vdc,	48Vin: 34Vdc				
		Shutdown voltage	5Vin: 4.2Vdc,	12Vin: 8Vdc,	24Vin: 16Vdc,	48Vin: 31Vdc				
	COOLING	Free-air convection								
	WORKING TEMP.	-40 ~ +90°C (Refer to "Derating Curve")								
	CASE TEMPERATURE	+100°C max.								
ENVIRONMENT	WORKING HUMIDITY	20% ~ 90% RH non-condensing								
LITTINONIILITI	STORAGE TEMP., HUMIDITY	-40 ~ +105°C, 10 ~ 95% RH non-condensing								
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 85°C)								
	SOLDERING TEMPERATURE	1.5mm from case of 1 ~ 3sec./260 $^{\circ}$ C max.								
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes								
	SAFETY STANDARDS	EAC TP TC 020/2011 approved								
	WITHSTAND VOLTAGE ISOLATION RESISTANCE	I/P-0/P:3KVDC								
		I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH								
	ISOLATION CAPACITANCE (Typ.) EMC EMISSION	250pF Parameter Standard Test Level / Note								
		Conducted		EN/EN55032(C	(ISPR32)	N/A				
SAFETY &		Radiated		EN/EN55032(C	•	Class A				
EMC	EMC IMMUNITY	Parameter		Standard		Test Level / Note				
(Note.5)		ESD		BS EN/EN61000-4-2		Level 2, ±8KV air, ±4KV contact				
		Radiated Susceptibility	_	BS EN/EN61000-4-3		Level 2, 3V/m				
		EFT/Burest		BS EN/EN61000-4-4		Level 1, 0.5KV				
		Surge		BS EN/EN61000-4-5		Level 1, 0.5KV Line-Line				
		Conducted		EN/EN61000-4		Level 2, 3V(e.m.f.)				
		Magnetic Field	BS	EN/EN61000-4	-8	Level 2, 3A/m				
OTHERS	MTBF	2500Khrs MIL-HDBK-21	,							
	DIMENSION (L*W*H)	31.8*20.3*10.2mm (1.25*0.8*0.4 inch)								
	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)								
	PACKING	12.5g	· ·	·						
NOTE	Ripple & noise are mea Line regulation is measu Load regulation is measu The final equipment murefer to "EMI testing of a series."	ameters are specified at normal input(E:5Vdc, A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. gulation is measured from low line to high line at rated load. egulation is measured from 10% to 100% rated load for SCWN03, 25% to 100% rated load for DCWN03. al equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please of "EMI testing of component power supplies." (as available on http://www.meanwell.com) ct Liability Disclaimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx								
						File Name: SCWN03, DCWN03-SPEC 2022-04-1				



■ Mechanical Specification

- All dimensions in mm(inch)
- Tolerance:x.x±0.5mm(x.xx±0.02")

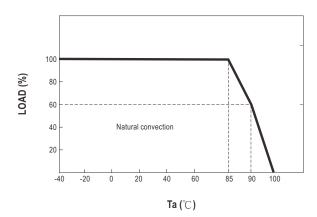




■ Plug Assignment

Pin-Out							
Pin No.	SCWN03 (Single output)	DCWN03 (Dual output)					
2,3	-Vin	-Vin					
9	N.C.	Common					
11	N.C.	-Vout					
14	+Vout	+Vout					
16	-Vout	Common					
22,23	+Vin	+Vin					

■ Derating Curve



■ Installation Manual

Please refer to : http://www.meanwell.com/manual.html