



CE

■ Features

- DIP16 package with industry standard pinout
- 2:1 wide input range
- Operating temperature range -40 ~ +85°C
- · No minimum load required
- Comply to EN55032 radiated Class B without additional components
- High efficiency up to 82%
- Protections: Short circuit (Continuous) / Overload / Input under voltage
- 1.5KVDC I/O isolation
- · 3 years warranty

Automate









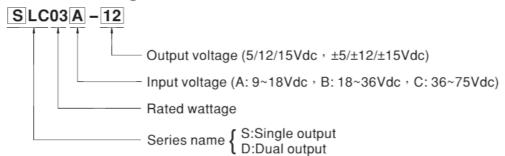
Applications

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

Description

SLC03 and DLC03 series are 3W isolated and regulated module type DC-DC converter with DIP16 package. It features international standard pins, a high efficiency up to 82%, wide working temperature range -40~+85°C, 1.5KVDC I/P-O/P isolation voltage, the compliance to EN55032 radiated Class B without additional components, continuous-mode short circuit protection, etc. The models account for different input voltage, 9~18V, 18~36V and 36~75V 2:1 wide input range, and various output voltage, 5V/12V/15V for single output and ±5V/±12V/±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



SLC03 & DLC03 series

ORDER NO.	INPUT			OUTPUT			
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT	OUTPUT	EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
		NO LOAD	FULL LOAD	VOLTAGE	CURRENT	V	(//)
SLC03A-05	12V (9 ~ 18V)	25mA	330mA	5V	600mA	79%	1000µF
SLC03A-12		15mA	320mA	12V	250mA	81%	470µF
SLC03A-15		15mA	309mA	15V	200mA	81%	330µF
DLC03A-05		30mA	325mA	±5V	±0~300mA	79%	* 220µF
DLC03A-12		32mA	305mA	±12V	±0 ~ 125mA	82%	*220µF
DLC03A-15		32mA	313mA	±15V	±0~100mA	81%	*220µF
SLC03B-05	24V (18~36V)	10mA	154mA	5V	600mA	81%	1000µF
SLC03B-12		10mA	154mA	12V	250mA	82%	470μF
SLC03B-15		10mA	153mA	15V	200mA	82%	330µF
DLC03B-05		20mA	158mA	±5V	±0~300mA	79%	*220µF
DLC03B-12		20mA	156mA	±12V	±0~125mA	81%	*220µF
DLC03B-15		20mA	156mA	±15V	±0~100mA	80%	*220µF
SLC03C-05		7mA	77mA	5V	600mA	81%	1000µF
SLC03C-12	48V (36 ~ 75V)	7mA	76mA	12V	250mA	82%	470µF
SLC03C-15		7mA	76mA	15V	200mA	82%	330µF
DLC03C-05		10mA	79mA	±5V	±0~300mA	80%	*220µF
DLC03C-12		10mA	78mA	±12V	±0 ~ 125mA	80%	*220µF
DLC03C-15		10mA	78mA	±15V	±0~100mA	80%	*220µF

* For each output



3W DIP Package DC-DC Regulated Converter

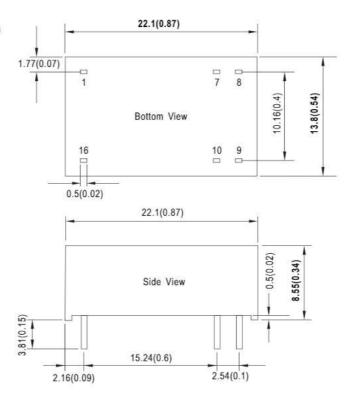
SLC03 & DLC03 series

SPECIFICAT	TION							
	VOLTAGE RANGE	A: 9~18Vdc , B: 18~36Vdc , C: 18~75Vdc						
INPUT	SURGE VOLTAGE (100ms max.)	12Vin models : 25Vdc ; 24Vin models : 50V ; 48Vin models : 100Vdc						
	FILTER	Internal capacitor						
	PROTECTION	Fuse recommended. 12Vin models: 1A Slow-Blow Type, 24Vin models: 0.5A Slow-Blow Type, 48Vin models: 200mA Slow-Blow						
	INTERNAL POWER DISSIPATION	200 Sept. 100 Se						
ОИТРИТ	VOLTAGE ACCURACY	±2%						
	RATED POWER	3W						
	RIPPLE & NOISE Note.2	50mVp-p						
	LINE REGULATION Note.3	±0.2%						
	LOAD REGULATION Note.4	±0.5%						
	SWITCHING FREQUENCY (Typ.)	100KHz						
	SHORT CIRCUIT	Protection type : Continuous, automatic recovery						
	OVERLOAD	150 ~ 250% rated output power						
PROTECTION		Protection type : Recovers automatically after fault condition is removed						
	UNDER VOLTAGE LOCKOUT	Start-up voltage 12Vin: 8.8Vdc, 24Vin: 17Vdc, 48Vin: 34Vdc						
		Shutdown voltage 12Vin: 7Vdc, 24Vin: 14Vdc, 48Vin: 30Vdc						
	COOLING	Free-air convection						
	WORKING TEMP.	-40 ~ +85°C (Refer to "Derating Curve")						
	CASE TEMPERATURE	+100°C max.						
	WORKING HUMIDITY	20% ~ 90% RH non-condensing						
ENVIRONMENT	STORAGE TEMP., HUMIDITY	-40 ~ +105°C, 10 ~ 95% RH non-condensing						
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 80°C)						
	SOLDERING TEMPERATURE	1.5mm from case of 3 ~ 5sec./265°C max.						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	ISOLATION CAPACITANCE (Typ.)	80pF						
	EMC EMISSION	Parameter		Standard	Test Level / Note(Note.6)			
		Conducted		EN55032(CISPR32)	N/A			
SAFETY &		Radiated		EN55032(CISPR32)	Class B			
EMC	EMC IMMUNITY	Parameter		Standard	Test Level / Note			
(Note.5)		ESD		EN61000-4-2	Level 3, ±8KV air			
		Radiated Susceptibility		EN61000-4-3	Level 2, 3V/m			
		EFT/Burest		EN61000-4-4	Level 1, 0.5KV			
		Surge		EN61000-4-5	Level 2, 0.5KV Line-Line			
		Conducted		EN61000-4-6	Level 2, 3V			
		Magnetic Field		EN61000-4-8	Level 1, 1A/m			
OTHERS	MTBF	300Khrs min. MIL-HDBK-217F(25°C)						
	DIMENSION (L*W*H)	22.1*13.8*8.55mm (0.87*0.54*0.34 inch)						
	CASE MATERIAL	Non-Conductive black plastic (UL 94V-0 rated)						
	PACKING	4.5g						
NOTE	Ripple & noise are mea Line regulation is meas Load regulation is meas The final equipment murefer to "EMI testing of 6 An external input filter compared."	iffied at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. sured at 20MHz by using a 12" twisted pair terminated with a 0.1μf & 47μf capacitor. ured from low line to high line at rated load. sured from 10% to 100% rated load. st be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please component power supplies."(as available on http://www.meanwell.com) apacitor is required if the module has to meet EN61000-4-4, EN61000-4-5. er Mate suggest: 220uF/100V.						



■ Mechanical Specification

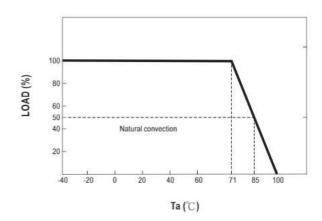
- · All dimensions in mm(inch)
- Tolerance:x.x±0.5mm(x.xx±0.02")
 x.xx±0.25mm(x.xxx±0.01")
- Pin size is 0,50x0.30mm (0.02"x0.01")
- Pin is Tolerance:x.xx±0.07mm(x.xxx±0.03")



■ Plug Assignment

Pin-Out							
Pin No.	SLC03 (Single output)	DLC03 (Dual output)					
1	-Vin	-Vin					
7	N.C.	N.C.					
8	N.C.	Common					
9	+Vout	+Vout					
10	-Vout	-Vout					
16	+Vin	+Vin					

■ Derating Curve



■ Installation Manual

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