





## EHI C €

#### 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

# Automato









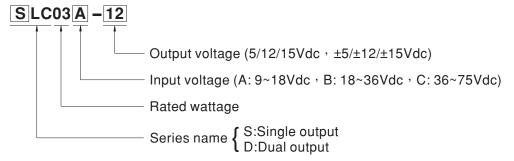
### Applications

- 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,  $5^{12V}$  15V for single output and  $2^{12V}$  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	(111.)	(III/A/A.)
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	48V (36 ~ 75V)	7mA	77mA	5V	600mA	81%	1000µF
SLC03C-12		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

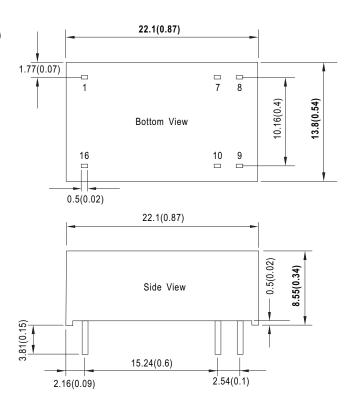
# SLC03 & DLC03 series

SPECIFICAT	TION							
	VOLTAGE RANGE	A: 9~18Vdc , B: 18~36Vdc , C: 18~75Vdc						
OUTPUT	SURGE VOLTAGE (100ms max.)							
	FILTER	Internal capacitor						
	PROTECTION	Fuse recommended. 12Vin models: 1A Slow-Blow Type, 24Vin models: 0.5A Slow-Blow Type, 48Vin models: 200mA Slow-Blow Type						
	INTERNAL POWER DISSIPATION	7.7						
	VOLTAGE ACCURACY	±2%						
	RATED POWER	3W						
	-	50mVp-p						
	LINE REGULATION Note.3							
	LOAD REGULATION Note.4							
	SWITCHING FREQUENCY (Typ.)							
PROTECTION	SHORT CIRCUIT	Protection type : Continuous, automatic recovery						
	OVERLOAD	150 ~ 250% rated output power						
		Protection type : Recovers automatically after fault condition is removed						
	UNDER VOLTAGE LOCKOUT	Start-up voltage	12Vin: 8.8	Vdc, 24Vin: 17Vdc,				
		Shutdown voltage	12Vin: 7V	dc, 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	$-40 \sim +105 ^{\circ} \text{C}$ , $10 \sim 95 \%$ RH non-condensing						
	TEMP. COEFFICIENT	0.03% / °C (0 ~ 80°C)						
	SOLDERING TEMPERATURE	1.5mm from case of 3 ~ 5sec./265 $^{\circ}$ C max.						
	VIBRATION	10 ~ 500Hz, 2G 10min./1cycle, period for 60min. each along X, Y, Z axes						
	SAFETY STANDARDS	EAC TP TC 004 approved						
SAFETY & EMC ( Note.5)	WITHSTAND VOLTAGE	I/P-O/P:1.5KVDC						
	ISOLATION RESISTANCE	I/P-O/P:100M Ohms / 500VDC / 25°C / 70% RH						
	ISOLATION CAPACITANCE (Typ.)							
	EMC EMISSION  EMC IMMUNITY	Parameter Standard Test Level / Note( Note.6)						
		Conducted		EN55032(CISPR32)		N/A		
		Radiated		EN55032(CISPR32)		Class B		
		Parameter		Standard		Test Level / Note		
		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		
				EN61000-4-4				
		Surge				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 plas	stic (UL 94)	/-0 rated)				
	PACKING	4.5g						
NOTE	2.Ripple & noise are mea     3.Line regulation is meas     4.Load regulation is meas     5.The final equipment murefer to "EMI testing of 6.An external input filter capacitor Pow	ecified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient. easured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor. asured from low line to high line at rated load. asured from 10% to 100% rated load. nust be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please of component power supplies."(as available on http://www.meanwell.com) capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5. ower Mate suggest: 220uF/100V. laimer: For detailed information, please refer to https://www.meanwell.com/serviceDisclaimer.aspx						



### ■ Mechanical Specification

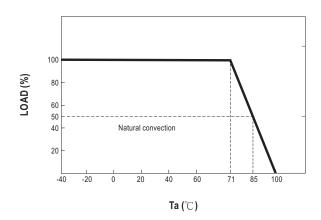
- All dimensions in mm(inch)
- Tolerance:x.x±0.5mm(x.xx±0.02")  $x.xx\pm0.25mm(x.xxx\pm0.01")$
- Pin size is 0.50x0.30mm (0.02 "x0.01")
   Pin is Tolerance:x.xx±0.07mm(x.xxx±0.03")



### ■ 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