



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!



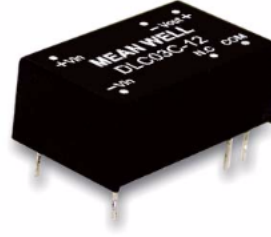
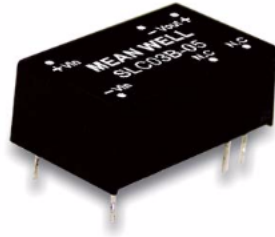
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■ Features

- 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

■ Applications

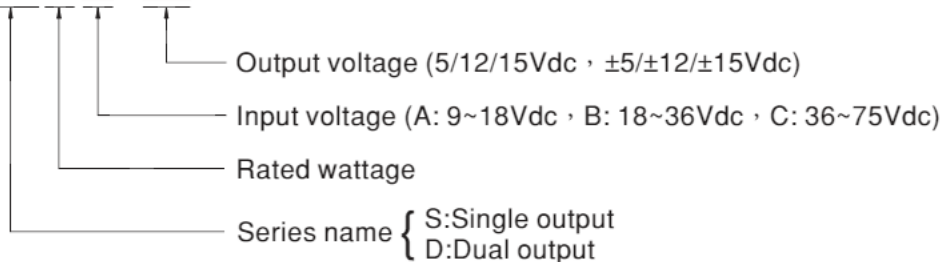
- Telecom/datacom system
- Wireless network
- Industrial control facility
- Instrument
- Analyzer
- Detector
- Data switch

■ 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

S L C 0 3 A - 1 2





MODEL SELECTION TABLE							
ORDER NO.	INPUT			OUTPUT		EFFICIENCY (TYP.)	CAPACITOR LOAD (MAX.)
	INPUT VOLTAGE (RANGE)	INPUT CURRENT		OUTPUT VOLTAGE	OUTPUT CURRENT		
		NO LOAD	FULL LOAD				
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

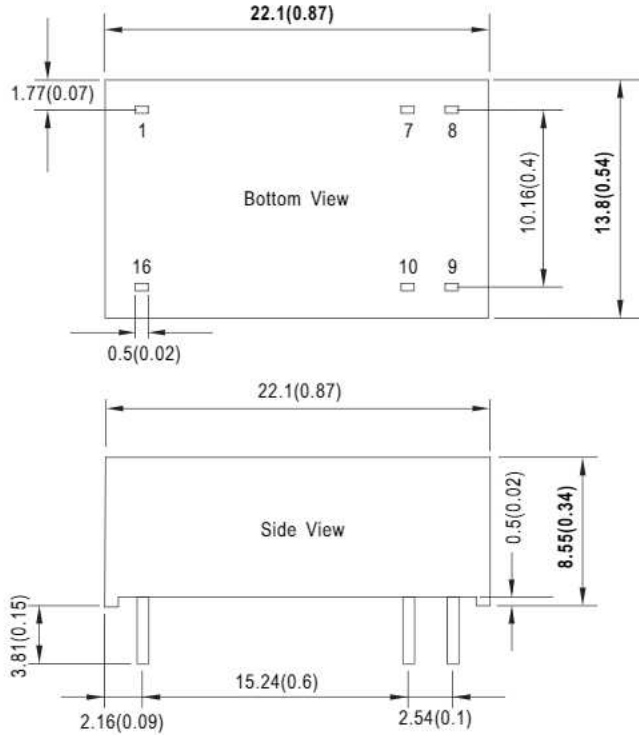
* For each output



SPECIFICATION				
INPUT	VOLTAGE RANGE	A: 9~18Vdc, B: 18~36Vdc, C: 18~75Vdc		
	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 Type		
	INTERNAL POWER DISSIPATION	1000mW		
OUTPUT	VOLTAGE ACCURACY	±2%		
	RATED POWER	3W		
	RIPPLE & NOISE <small>Note.2</small>	50mVp-p		
	LINE REGULATION <small>Note.3</small>	±0.2%		
	LOAD REGULATION <small>Note.4</small>	±0.5%		
	SWITCHING FREQUENCY (Typ.)	100KHz		
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: 8.8Vdc, 24Vin: 17Vdc, 48Vin: 34Vdc	
		Shutdown voltage	12Vin: 7Vdc, 24Vin: 14Vdc, 48Vin: 30Vdc	
ENVIRONMENT	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		
	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		
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.)	80pF		
	EMC EMISSION	Parameter	Standard	Test Level / Note(Note.6)
		Conducted	EN55032(CISPR32)	N/A
		Radiated	EN55032(CISPR32)	Class B
	EMC IMMUNITY	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
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	<p>1.All parameters are specified at normal input(A:12Vdc, B:24Vdc, C:48Vdc), rated load, 25°C 70% RH ambient.</p> <p>2.Ripple & noise are measured at 20MHz by using a 12" twisted pair terminated with a 0.1µf & 47µf capacitor.</p> <p>3.Line regulation is measured from low line to high line at rated load.</p> <p>4.Load regulation is measured from 10% to 100% rated load.</p> <p>5.The final equipment must be re-confirm that it still meet EMC directives. For guidance on how to perform these EMC tests, please refer to "EMI testing of component power supplies."(as available on http://www.meanwell.com)</p> <p>6.An external input filter capacitor is required if the module has to meet EN61000-4-4, EN61000-4-5.</p> <p>The filter capacitor Power Mate suggest: 220uF/100V.</p>			

Mechanical Specification

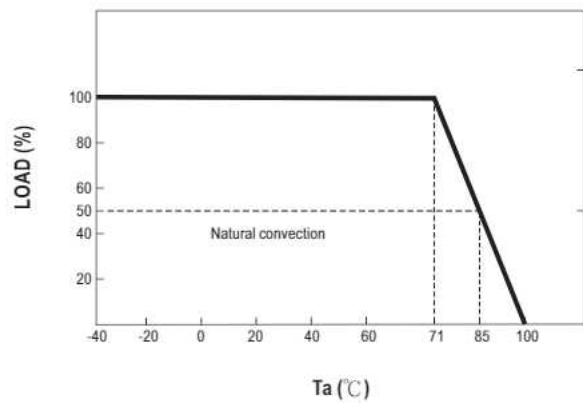
- All dimensions in mm(inch)
- Tolerance: $x.xx \pm 0.5\text{mm}$ ($x.xx \pm 0.02''$)
 $x.xx \pm 0.25\text{mm}$ ($x.xxx \pm 0.01''$)
- Pin size is $0.50 \times 0.30\text{mm}$ ($0.02'' \times 0.01''$)
- Pin is Tolerance: $x.xx \pm 0.07\text{mm}$ ($x.xxx \pm 0.03''$)



Plug Assignment

Pin No.	Pin-Out	
	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>