FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+85℃
- No additional components required
- Stable performance and high reliability (MTBF：2X10^{5}Hrs)
- Industry standard pin-out
- Metal case
- DIP package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD30-12S05E	12	9-18	5	6000			
LD30-12S09E			9	3333			
LD30-12S12E			12	2500			
LD30-12S15E			15	2000			
LD30-12S18E			18	1667			
LD30-12S24E			24	1250			
LD30-12S28E			28	893			
LD30-12S48E			48	625			
LD30-12D05E			+5	3000	-5	3000	
LD30-12D12E			+12	1250	-12	1250	
LD30-18S05E	18	9-36	5	6000			
LD30-18S09E			9	3333			
LD30-18S12E			12	2500			
LD30-18S15E			15	2000			
LD30-18S18E			18	1667			
LD30-18S24E			24	1250			
LD30-18S28E			28	893			
LD30-18S48E			48	625			
LD30-18D05E			+5	3000	-5	3000	
LD30-18D12E			+12	1250	-12	1250	
LD30-24S05E	24	18-36	5	6000			
LD30-24S09E			9	3333			
LD30-24S12E			12	2500			
LD30-24S15E			15	2000			
LD30-24S18E			18	1667			
LD30-24S24E			24	1250			
LD30-24S28E			28	893			
LD30-24S48E			48	625			

LD30-24D05E			+5	3000	-5	3000	
LD30-24D12E			+12	1250	-12	1250	
LD30-24D15E			+15	1000	-15	1000	
LD30-36S05E	36	18-75	5	6000			
LD30-36S09E			9	3333			
LD30-36S12E			12	2500			
LD30-36S15E			15	2000			
LD30-36S18E			18	1667			
LD30-36S24E			24	1250			
LD30-36S28E			28	893			
LD30-36S48E			48	625			
LD30-36D05E			+5	3000	-5	3000	
LD30-36D12E			+12	1250	-12	1250	
LD30-48S05E	48	36-72	5	6000			
LD30-48S09E			9	3333			
LD30-48S12E			12	2500			
LD30-48S15E			15	2000			
LD30-48S18E			18	1667			
LD30-48S24E			24	1250			
LD30-48S28E			28	893			
LD30-48S48E			48	625			
LD30-48D05E			+5	3000	-5	3000	
LD30-48D12E			+12	1250	-12	1250	
LD30-48D15E			+15	1000	-15	1000	
LD30-110S05E	110	40-160	5	6000			
LD30-110S09E			9	3333			
LD30-110S12E			12	2500			
LD30-110S15E			15	2000			
LD30-110S18E			18	1667			
LD30-110S24E			24	1250			
LD30-110S28E			28	893			
LD30-110S48E			48	625			
LD30-110D05E			+5	3000	-5	3000	
LD30-110D12E			+12	1250	-12	1250	
LD30-110D15E			+15	1000	-15	1000	

customized accepted,pls contact sales for details

Input Specifications

	Input Voltage Range（Vdc）	Nom(Vdc)	Max（Vdc）
Input Voltage	9-18	12	18
	9-36	18	36
	18-36	24	36

	18-75	36	75
	36-72	48	72
	40-160	110	160
Hot Plug	Unavailable		

Output Specifications

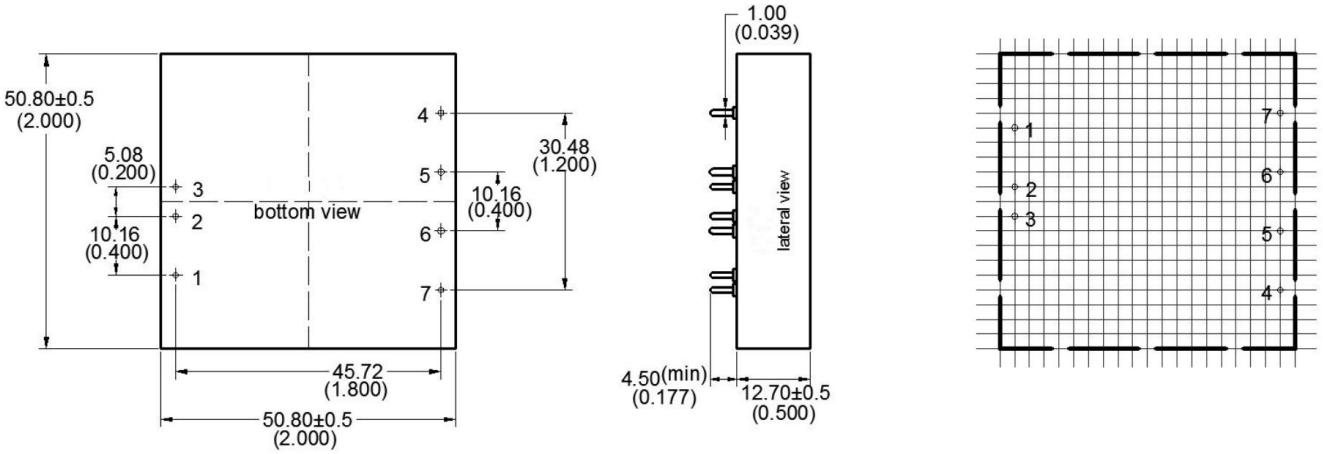
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±2%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	-	200%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

Gerneral Specifications

Switching Frequency	280KHz(Typ)	PWM mode
MTBF	$2X10^5$Hrs	MIL-HDBK-217F@25℃
Isolation（Input-Output）	1.5KVDC	
Operating Temperature	-40～+85℃	
Storage Temperature	-55～+125℃	
Storage Humidity	5-95%RH	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	50g（Typ）	

**Unless specified, otherwise all other parameters are tested under the following conditions: nominal input voltage, pure resistive load, 25℃ room temperature environment.

Dimensions and Recommended Layout

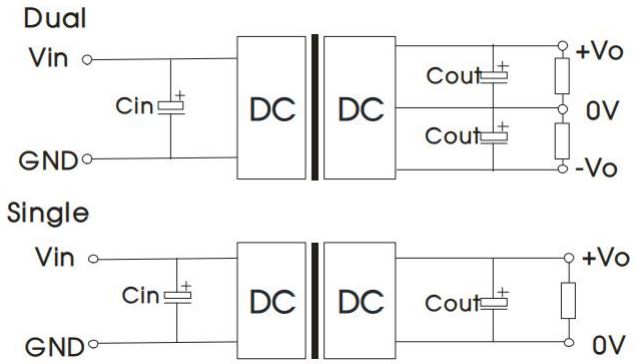


Unit:mm(inch)

Pins

Pin	Single	Dual	
1	CTRL	CTRL	
2	-Vin	-Vin	
3	+Vin	+Vin	
4	NO PIN	+Vo	
5	+Vo	COM	
6	-Vo	-Vo	
7	TRIM	TRIM	

Recommended Circuit



Recommended input and output capacitor values				
Vin	Cin	Cout		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

Note

1. The product should be used within the specified range; otherwise, it may cause permanent damage to the product.
2. If the product operates beyond its load range, it cannot be guaranteed that all performance indicators of the product comply with those in this manual.
3. Unless otherwise specified, all the above data were measured at Ta=25℃, humidity <75%, input nominal voltage and output rated load (pure resistance load).
4. The above are all performance indicators of the product models listed in this manual. Some indicators of non-standard models may exceed the above requirements. For specific situations, you can directly contact our technical personnel.
5. Product specification changes will not be notified separately. Please pay attention to the latest manual published on our company's official website.

*The final interpretation right of the product belongs to ECCO ELECTRONICS.