

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- No additional components required
- Stable performance and high reliability (MTBF: 2X105Hrs)
- Industry standard pin-out
- Metal case
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Normal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)	
LD25-12S3V3	12	9-18	3.3	5000			
LD25-12S05			5	5000			
LD25-12S09			9	2770			
LD25-12S12			12	2080			
LD25-12S15			15	1660			
LD25-12S18			18	1389			
LD25-12S24			24	1040			
LD25-12S28			28	893			
LD25-12S48			48	521			
LD25-12D05			+5	2500	-5	2500	
LD25-12D09			+9	1390	-9	1390	
LD25-12D12			+12	1040	-12	1040	
LD25-12D15			+15	830	-15	830	
LD25-12D24			+24	520	-24	520	
LD25-12T5-12			+5	3500	+12	250	-12
LD25-12T5-15			+5	3500	+15	200	-15
LD25-18S3V3	18	9-36	3.3	5000			
LD25-18S05			5	5000			
LD25-18S09			9	2770			
LD25-18S12			12	2080			
LD25-18S15			15	1660			
LD25-18S18			18	1389			
LD25-18S24			24	1040			
LD25-18S28			28	893			
LD25-18S48			48	521			
LD25-18D05			+5	2500	-5	2500	
LD25-18D09			+9	1390	-9	1390	
LD25-18D12			+12	1040	-12	1040	

LD25-18D15			+15	830	-15	830	
LD25-18D24			+24	520	-24	520	
LD25-18T5-12			+5	3500	+12	250	-12
LD25-18T5-15			+5	3500	+15	200	-15
LD25-24S3V3	24	18-36	3.3	5000			
LD25-24S05			5	5000			
LD25-24S09			9	2770			
LD25-24S12			12	2080			
LD25-24S15			15	1660			
LD25-24S18			18	1389			
LD25-24S24			24	1040			
LD25-24S28			28	893			
LD25-24S48			48	521			
LD25-24D05			+5	2500	-5	2500	
LD25-24D09			+9	1390	-9	1390	
LD25-24D12			+12	1040	-12	1040	
LD25-24D15			+15	830	-15	830	
LD25-24D24			+24	520	-24	520	
LD25-24T5-12			+5	3500	+12	250	-12
LD25-24T5-15			+5	3500	+15	200	-15
LD25-36S3V3	36	18-72	3.3	5000			
LD25-36S05			5	5000			
LD25-36S09			9V	2770			
LD25-36S12			12	2080			
LD25-36S15			15	1660			
LD25-36S18			18	1389			
LD25-36S24			24	1040			
LD25-36S28			28	893			
LD25-36S48			48	521			
LD25-36D05			+5	2500	-5	2500	
LD25-36D09			+9	1390	-9	1390	
LD25-36D12			+12	1040	-12	1040	
LD25-36D15			+15	830	-15	830	
LD25-36D24			+24	520	-24	520	
LD25-36T5-12			+5	3500	+12	250	-12
LD25-36T5-15			+5	3500	+15	200	-15
LD25-48S3V3			3.3	5000			
LD25-48S05			5	5000			
LD25-48S09			9	2770			
LD25-48S12			12	2080			
LD25-48S15			15	1660			
LD25-48S18			18	1389			

LD25-48S24	48	36-72	24	1040			
LD25-48S28			28	893			
LD25-48S48			48	521			
LD25-48D05			+5	2500	-5	2500	
LD25-48D09			+9	1390	-9	1390	
LD25-48D12			+12	1040	-12	1040	
LD25-48D15			+15	830	-15	830	
LD25-48D24			+24	520	-24	520	
LD25-48T5-12			+5	3500	+12	250	-12
LD25-48T5-15			+5	3500	+15	200	-15
LD25-110S3V3	110	40-160	3.3	5000			
LD25-110S05			5	5000			
LD25-110S09			9	2770			
LD25-110S12			12	2080			
LD25-110S15			15	1660			
LD25-110S18			18	1389			
LD25-110S24			24	1040			
LD25-110S28			28	893			
LD25-110S48			48	521			
LD25-110D05			+5	2500	-5	2500	
LD25-110D09			+9	1390	-9	1390	
LD25-110D12			+12	1040	-12	1040	
LD25-110D15			+15	830	-15	830	
LD25-110D24			+24	520	-24	520	
LD25-110T5-12			+5	3500	+12	250	-12
LD25-110T5-15			+5	3500	+15	200	-15

customized accepted,pls contact sales for details

Input Specifications

Input Voltage	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
	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

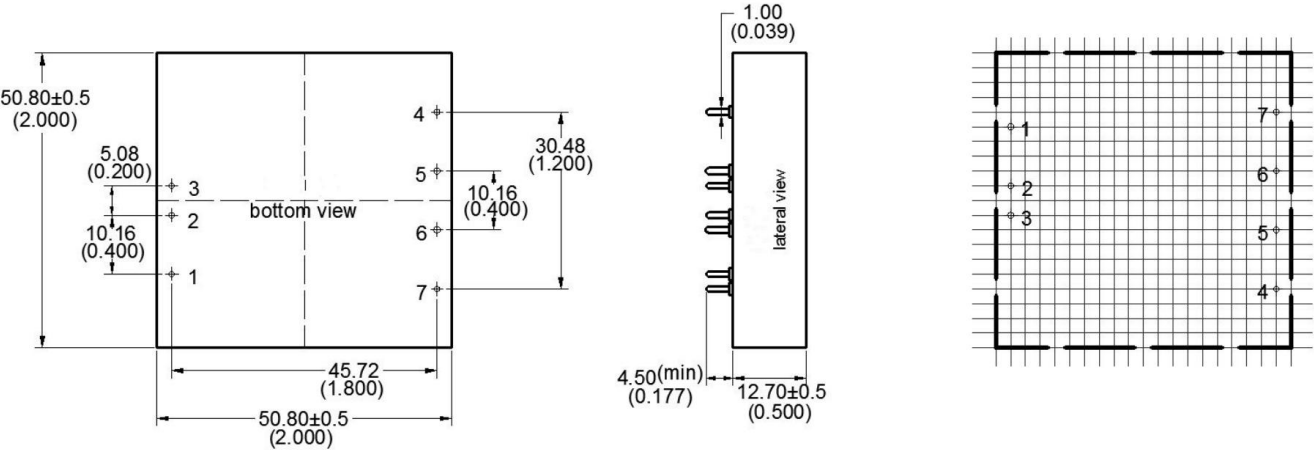
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	60mVp-p	80mVp-p	20MHz bandwidth, 5%-100% load
Startup delay time	50ms	-	
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	-	200%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

Gernal 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

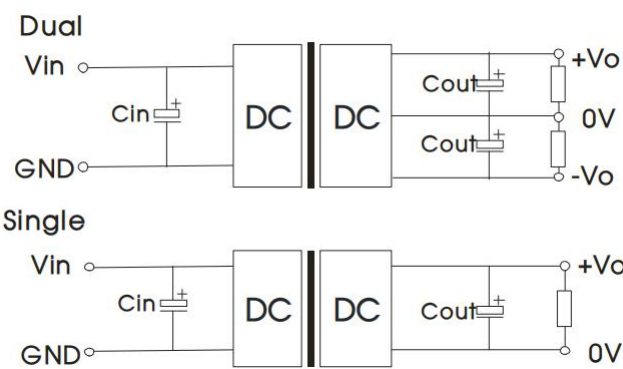


Unit:mm(inch)

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				
V_{in}	C_{in}	C_{out}		
5	100uF/16V			
12	100uF/25V			
24	10uF/50V-47uF/50V			
48	10uF/100V-47uF/100V			

Noted				
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 $T_a=25^{\circ}\text{C}$, 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.				