

FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- I/O isolation voltage 1.5KV
- Working temperature: -40°C~+85°C
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Metal case
- DIP package



Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)		
	Normalal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (mA)	Voltage (V2dc)	current (mA)			
LD5-05S3V3B	5	4.5-9	3.3	1000					
LD5-05S05B			5	1000					
LD5-05S09B			9	550					
LD5-05S12B			12	410					
LD5-05S15B			15	330					
LD5-05S18B			18	278					
LD5-05S24B			24	210					
LD5-05S28B			28	179					
LD5-05S48B			48	104					
LD5-05D3V3B					+3.3	500	-3.3	500	
LD5-05D05B					+5	500	-5	500	
LD5-05D09B					+9	275	-9	275	
LD5-05D12B					+12	205	-12	205	
LD5-05D15B					+15	165	-15	165	
LD5-05D24B					+24	100	-24	100	
LD5-12S3V3B			12	9-18	3.3	1000			
LD5-12S05B	5	1000							
LD5-12S09B	9	550							
LD5-12S12B	12	410							
LD5-12S15B	15	330							
LD5-12S18B	18	278							
LD5-12S24B	24	210							
LD5-12S28B	28	179							
LD5-12S48B	48	104							
LD5-12D3V3B					+3.3	500	-3.3	500	
LD5-12D05B					+5	500	-5	500	
LD5-12D09B					+9	275	-9	275	
LD5-12D12B					+12	205	-12	205	

LD5-12D15B			+15	165	-15	165			
LD5-12D24B			+24	100	-24	100			
LD5-18S3V3B	18	9-36	3.3	1000					
LD5-18S05B			5	1000					
LD5-18S09B			9	550					
LD5-18S12B			12	410					
LD5-18S15B			15	330					
LD5-18S18B			18	278					
LD5-18S24B			24	210					
LD5-18S28B			28	179					
LD5-18S48B			48	104					
LD5-18D3V3B			+3.3	500	-3.3	500			
LD5-18D05B			+5	500	-5	500			
LD5-18D09B			+9	275	-9	275			
LD5-18D12B			+12	205	-12	205			
LD5-18D15B			+15	165	-15	165			
LD5-18D24B			+24	100	-24	100			
LD5-24S3V3B			24	18-36	3.3	1000			
LD5-24S05B					5	1000			
LD5-24S09B					9	550			
LD5-24S12B	12	410							
LD5-24S15B	15	330							
LD5-24S18B	18	278							
LD5-24S24B	24	210							
LD5-24S28B	28	179							
LD5-24S48B	48	104							
LD5-24D3V3B	+3.3	500			-3.3	500			
LD5-24D05B	+5	500			-5	500			
LD5-24D09B	+9	275			-9	275			
LD5-24D12B	+12	205			-12	205			
LD5-24D15B	+15	165			-15	165			
LD5-24D24B	+24	100			-24	100			
LD5-36S3V3B	36	18-72			3.3	1000			
LD5-36S05B					5	1000			
LD5-36S09B					9	550			
LD5-36S12B			12	410					
LD5-36S15B			15	330					
LD5-36S18B			18	278					
LD5-36S24B			24	210					
LD5-36S28B			28	179					
LD5-36S48B			48	104					
LD5-36D3V3B			+3.3	500	-3.3	500			

LD5-36D05B			+5	500	-5	500			
LD5-36D09B			+9	275	-9	275			
LD5-36D12B			+12	205	-12	205			
LD5-36D15B			+15	165	-15	165			
LD5-36D24B			+24	100	-24	100			
LD5-48S3V3B	48	36-72	3.3	1000					
LD5-48S05B			5	1000					
LD5-48S09B			9	550					
LD5-48S12B			12	410					
LD5-48S15B			15	330					
LD5-48S18B			18	278					
LD5-48S24B			24	210					
LD5-48S28B			28	179					
LD5-48S48B			48	104					
LD5-48D3V3B			+3.3	500	-3.3	500			
LD5-48D05B			+5	500	-5	500			
LD5-48D09B			+9	275	-9	275			
LD5-48D12B			+12	205	-12	205			
LD5-48D15B			+15	165	-15	165			
LD5-48D24B			+24	100	-24	100			
LD5-110S3V3B			110	72-144	3.3	1000			
LD5-110S05B					5	1000			
LD5-110S09B					9	550			
LD5-110S12B					12	410			
LD5-110S15B					15	330			
LD5-110S18B	18	278							
LD5-110S24B	24	210							
LD5-110S28B	28	179							
LD5-110S48B	48	104							
LD5-110D3V3B	+3.3	500			-3.3	500			
LD5-110D05B	+5	500			-5	500			
LD5-110D09B	+9	275			-9	275			
LD5-110D12B	+12	205			-12	205			
LD5-110D15B	+15	165			-15	165			
LD5-110D24B	+24	100			-24	100			

customized accepted,pls contact sales for details

Input Specifications

	Input Voltage Range (Vdc)	Nom(Vdc)	Max (Vdc)
Input Voltage	4.5-9	5	9
	9-18	12	18
	9-36	18	36

	18-36	24	36
	18-72	36	72
	36-72	48	72
	72-144	110	144

Hot Plug Unavailable

Output Specifications

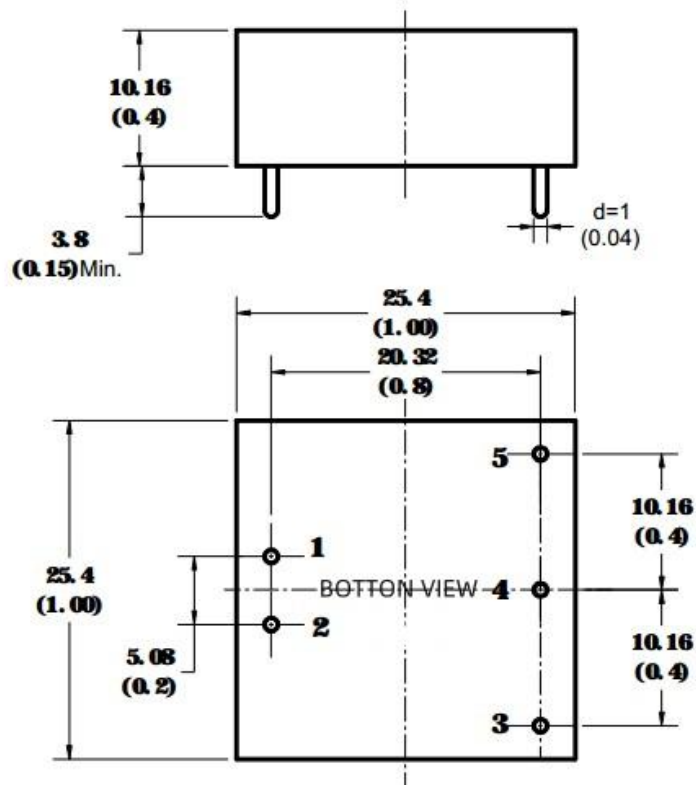
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1%	±3%	0-100% load
Line Regulation	±0.2%	±0.5%	Input voltage variation from low to high at full load
Load Regulation	±0.5%	±1%	5%-100% load
Ripple&Noise	-	100mVp-p	20MHz bandwidth, 5%-100% load
Transient Recovery Time	300μs	500μs	25% load step change, Nominal input voltage
Over-voltage Protection	-	160%Vo	110%Vo(Min)
Over-current Protection	140%Io	190%Io	110%Io(Min)
Short-circuit Protection			Continuous, self-recovery

General Specifications

Switching Frequency	300KHz(Typ)	PWM mode
MTBF	1000 K hours	MIL-HDBK-217F@25°C
Temperature Coefficient	0.03%/°C	100% full load
Isolation (Input-Output)	1.5KVDC	
Insulation Resistance	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40~+85°C	
Storage Temperature	-55~+125°C	
Storage Humidity	5-95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Aluminum alloy	
Weight	12g (Typ)	

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

Dimensions and Recommended Layout

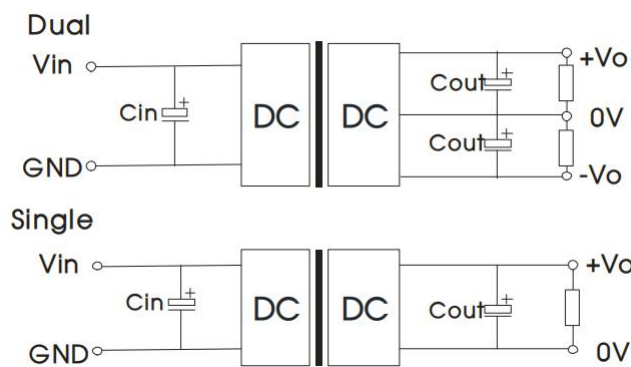


Note:
Unit: mm[inch]
Pin diameter tolerances: $\pm 0.10[\pm 0.004]$
General tolerances: $\pm 0.50[\pm 0.020]$

Pins

Pin	Single	Dual	
1	+Vin	+Vin	
2	-Vin	-Vin	
3	GND	-Vo2	
4	No Pin	COM	
5	Vo1	+Vo1	

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			

Noted

1. Input current: Ensure that the output current of the power supply meets the instantaneous starting current of the power module (that is, twice the average input current of the power module).
2. Output load requirements: Avoid no-load use. When the actual power consumption of the load is less than 10% of the rated output power of the module or no load occurs, connect an external resistance to the output end (the sum of the external resistance and the load power is greater than or equal to 10% of the rated load) or select a module with a smaller rated power.
3. The external capacitance of the output end should not be too large; otherwise, the module may be overcurrent or poorly started. For details, see the external capacitance recommendation table.
4. External LC filter circuit can be connected for occasions with high ripple noise requirements.