SLD350Q-18S

FEATURES：

- Wide input range
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+100℃
- No additional components required
- Stable performance and high reliability (MTBF≥1000K hours)
- Industry standard pin-out
- Industry standard 1/2 brick package

Selection Guide

Part No.	INPUT		OUTPUT				CapacitiveLoad(μF)
	Norminal (Vdc)	Range (Vdc)	Voltage (V1dc)	current (A)	Voltage (V2dc)	current (A)	
SLD350Q-18S12N	18	9-36	12	29.2			
SLD350Q-18S15N			15	23.3			
SLD350Q-18S24N			24	14.6			
SLD350Q-18S28N			28	12.5			
SLD350Q-18S48N			48	7.3			

customized accepted,pls contact sales for details

Input Specifications

Input Voltage Range		Input Voltage Range（Vdc）	Nom(Vdc)	Max（Vdc）
		9-36	18	36
Input Filter		Capacitive Filter		
Ctrl		NONE		
		NONE		
Hot Plug		Unavailable		
ON/OFF	ON	ON/OFF connect -Vin or pulled low(0-1.2VDC)		
	OFF	ON/OFF open or pulled high TTL (3.3-12VDC)		
		Input current when off:20mA(typ),50mA(max)		

Output Specifications

Item	Min	Typ	Max	Test Conditions
Voltage Accuracy	-	±1%	±3%	
Line Regulation	-	±0.2%	±0.5%	
Load Regulation	-	±0.5%	±1%	
TRIM Range	60%	-	110%	
Temperature Regulation		±0.02%/℃		
Over Current Protect	110%Io	-	190%Io	
Over Voltage Protect	-	-	-	Hiccup
Over Temperature Protect	-	-	125%	
Short Circuit Protect	Continuous, self-recovery			

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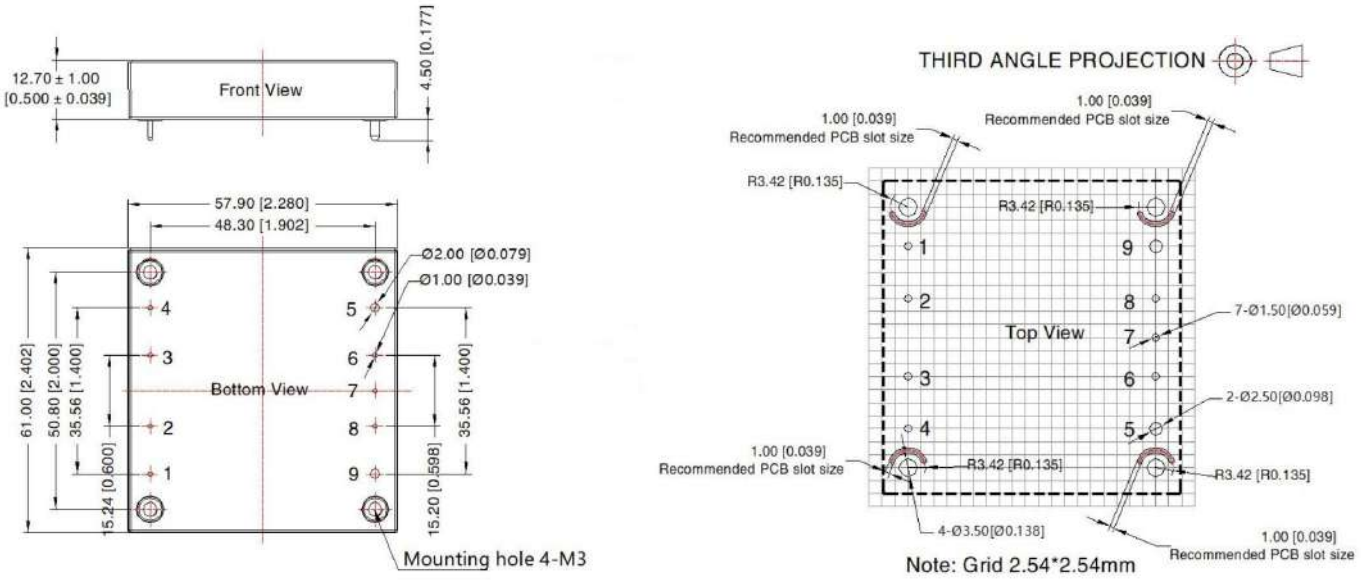
Dynamic Response	-	300uS(typ)	-
Gerneral Specifications			
Isolation Resistor	1000MΩ		Input-Output
Isolation Voltage	1500VDC		Input-Output
	1000VDC		Input-Case
	500VDC		Output-Case
Switching Frequency	270KHz		Mil HDBK 217F Tc=25℃
MTBF	1000K Hrs		
Case Temperature	-40~+100℃		
Storage Temperature	-55~+125℃		
Relative Humidity	10%-90%RH		
Pin Solder Temperature	300℃		Soldering spot is 1.5mm away from case for 10 seconds
Weight	80g（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



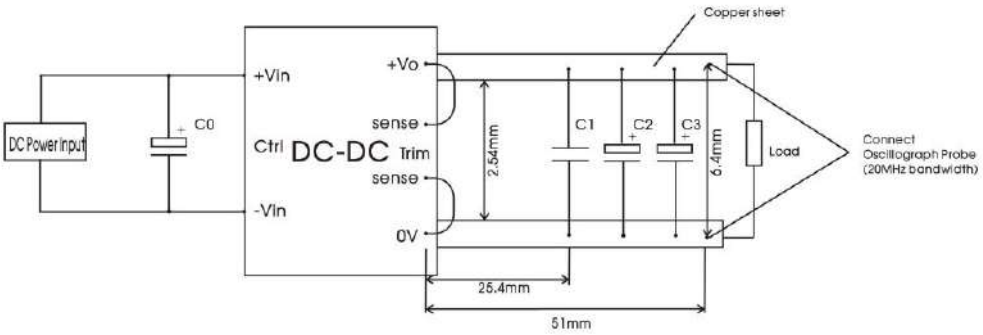
Note:
Unit: mm[inch]
Pin1,2,3,4,6,7,8's diameter: 1.00[0.039]
Pin5,9's diameter: 2.00[0.079]
Pin diameter tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.50[± 0.020]
Mounting hole screwing torque: Max 0.4 N.m

Pins

Pin-Out	Mark		
1	+Vin	6	Sense-

2	CTRL	7	TRIM
3	NC	8	Sense+
4	-Vin	9	+Vo
5	0V		

Recommended Circuit



Capacitor values / Output voltage (VDC)	C0	C1	C2	C3
12	100μF/200V	1μF/25V	10μF/25V	330μF/25V
24		1μF/50V	10μF/50V	330μF/50V
28		1μF/50V	10μF/50V	330μF/50V
32		1μF/50V	10μF/50V	330μF/50V