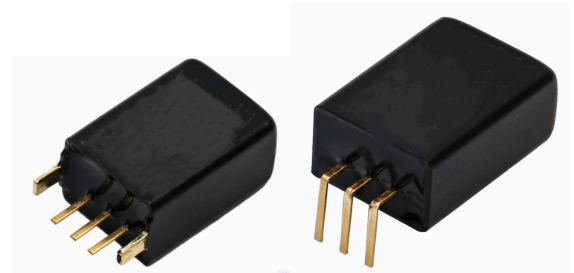


FEATURES:

- Wide input range
- Continuous short-circuit protection, self recover
- Non-isolation
- Working temperature: -40°C~+105°C
- No additional components required
- Stable performance and high reliability (MTBF=8215K hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94V-0 requirements



Selection Guide							
Part No.	INPUT		OUTPUT		Full Load Efficiency (%/Typ) Vin		Capacitive Load(μF)
	Nominal (Vdc)	Range (Vdc)	Voltage (Vdc)	Max current (mA)	Min/Vin Max		
					Vin=24V	Vin=48V	
K78U03-1000R3(L)	48	9-75	3.3	1000	76/80	72/76	2400
K78U05-1000R3(L)	48	9-75	5	1000	80/84	78.5/82.5	1580
K78UX6-1000R3(L)	48	9-75	6.5	1000	78/91	81/85	1200
K78U09-1000R3(L)	48	14-75	9	1000	80/91	83.5/87.5	880
K78U12-1000R3(L)	48	17-75	12	1000	83/91	86.5/90.5	660
K78U15-1000R3(L)	48	21-75	15	1000	84/93	86/90	530
K78U24-700R3(L)	48	33-75	24	700	85/93	88/92	330

customized accepted, pls contact sales for details

Input Specifications	
Input Filter	Capacitive Filter
Ctrl	NONE
	NONE
Hot Plug	Unavailable

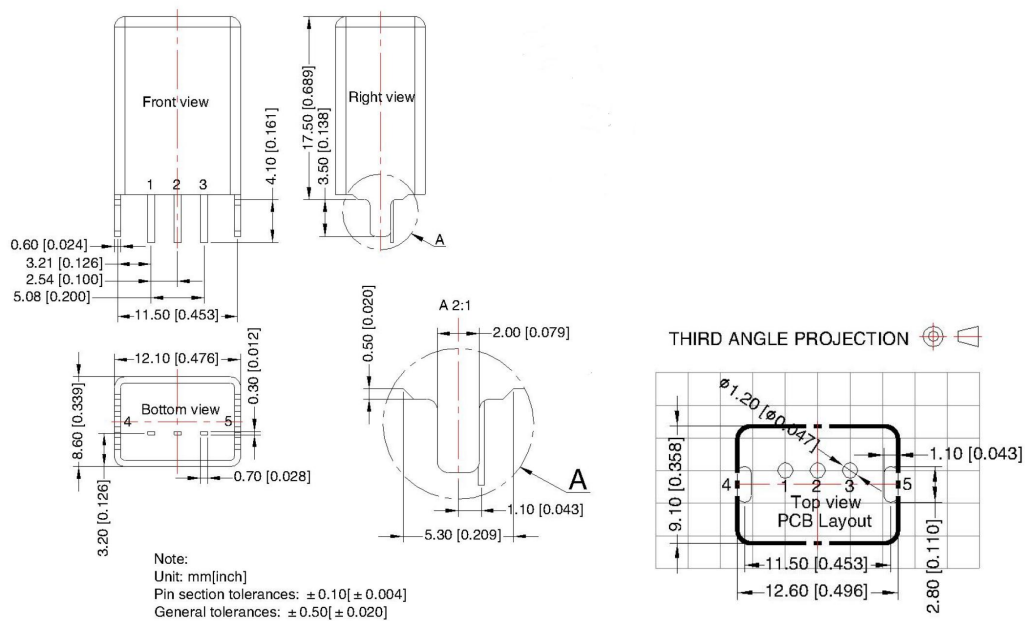
Output Specifications			
Item	Typ	Max	Test Conditions
Voltage Accuracy	±1.5%	±3%	10%-100%, input voltage range
Line Regulation	-	±3%	Full load, input voltage range
Load Regulation	±0.6%	±3%	Nominal input voltage, 10% -100% load
Ripple&Noise	75mVp-p	-	20MHz Bandwidth, full load

General Specifications		
Switching Frequency	250KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	
Case Temperature Rise	25°C (Typ)	
Temperature Coefficient	0.02%/°C	Operating temperature -40°C to +105°C
Pin Soldering Resistance Temperature	300°C	Soldering spot is 1.5mm away from case for 10 seconds

Operating Temperature	-40~+105°C	
Storage Temperature	-55~+125°C	
Storage Humidity	<95%RH	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94V-0)	
Weight	6.5g(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



Pins

Pin	Mark		
1	Vin		
2	GND		
3	+Vo		
4	CASE PIN		
5	CASE PIN		

Recommended Circuit

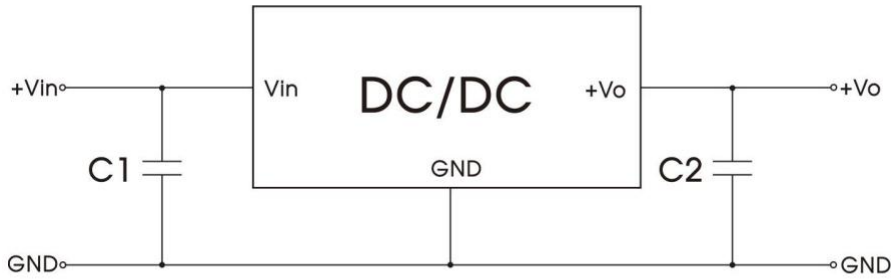


Fig. 3

Recommended input and output capacitor values			
Part Number	C1	C2	
K78U03-1000R3(L)	10uF/100V	22uF/10V	
K78U05-1000R3(L)		22uF/10V	
K78UX6-1000R3(L)		22uF/10V	
K78U09-1000R3(L)		22uF/25V	
K78U12-1000R3(L)		22uF/25V	
K78U15-1000R3(L)		22uF/25V	
K78U24-700R3(L)		10uF/50V	
Noted: C1/C2=ceramic capacitor			

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.

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