FEATURES：

- Fixed voltage input,unregulated single output,2W
- Continuous short-circuit protection,self recover
- I/O isolation voltage 1.5KV
- Working temperature：-40℃～+105℃
- No additional components required
- Stable performance and high reliability (MTBF≥2 Million hours)
- Industry standard pin-out
- Flame-retardant case to meet UL94 V-0 requirements
- SMD package

Selection Guide

Part No.	INPUT		OUTPUT			Full Load Efficiency （%/Typ）	CapacitiveLoad(μF)
	Norminal （Vdc）	Range （Vdc）	Voltage (Vdc)	Min current (mA)	Max current (mA)		
B0503XT-2WR3	5	4.5-5.5	3.3	40	400	76	2200
B0505XT-2WR3			5	40	400	78	2200
B0507XT-2WR3			7	29	286	78	1200
B0509XT-2WR3			9	22	222	78	1200
B0512XT-2WR3			12	17	167	80	470
B0515XT-2WR3			15	13	133	81	470
B0524XT-2WR3			24	8	83	82	220
A0503XT-2WR3			±3.3	±20	±200	75	1200
A0505XT-2WR3			±5	±20	±200	78	1200
A0509XT-2WR3			±9	±11	±111	78	560
A0512XT-2WR3			±12	±9	±84	79	220
A0515XT-2WR3			±15	±7	±67	80	220
A0524XT-2WR3			±24	±4	±42	81	100
B1203XT-2WR3	12	10.8-13.2	3.3	40	400	76	2200
B1205XT-2WR3			5	40	400	78	2200
B1209XT-2WR3			9	22	222	78	1200
B1212XT-2WR3			12	17	167	80	470
B1215XT-2WR3			15	13	133	81	470
B1224XT-2WR3			24	8	83	82	220
A1203XT-2WR3			±3.3	±20	±200	75	1200
A1205XT-2WR3			±5	±20	±200	78	1200
A1209XT-2WR3			±9	±11	±111	78	560
A1212XT-2WR3			±12	±9	±84	79	220
A1215XT-2WR3			±15	±7	±67	80	220
A1224XT-2WR3			±24	±4	±42	81	100
B1503XT-2WR3	15	13.5-16.5	3.3	40	400	76	2200
B1505XT-2WR3			5	40	400	78	2200

B1509XT-2WR3			9	22	222	78	1200
B1512XT-2WR3			12	17	167	80	470
B1515XT-2WR3			15	13	133	81	470
B1524XT-2WR3			24	8	83	82	220
A1503XT-2WR3			±3.3	±20	±200	75	1200
A1505XT-2WR3			±5	±20	±200	78	1200
A1509XT-2WR3			±9	±11	±111	78	560
A1512XT-2WR3			±12	±9	±84	79	220
A1515XT-2WR3			±15	±7	±67	80	220
A1524XT-2WR3			±24	±4	±42	81	100
B2403XT-2WR3	24	21.6-26.4	3.3	40	400	76	2200
B2405XT-2WR3			5	40	400	78	2200
B2409XT-2WR3			9	22	222	78	1200
B2412XT-2WR3			12	17	167	80	470
B2415XT-2WR3			15	13	133	81	470
B2424XT-2WR3			24	8	83	82	220
A2403XT-2WR3			±3.3	±20	±200	75	1200
A2405XT-2WR3			±5	±20	±200	78	1200
A2409XT-2WR3			±9	±11	±111	78	560
A2412XT-2WR3			±12	±9	±84	79	220
A2415XT-2WR3			±15	±7	±67	80	220
A2424XT-2WR3			±24	±4	±42	81	100

customized accepted ,pls contact sales for details

Input Specifications

Input Filter	Capacitive Filter	
Ctrl	NONE	
	NONE	
Hot Plug	Unavailable	

Output Specifications

Item		Min	Typ	Max	Test Conditions
Voltage Accuracy		-	-	-	
Line Regulation		-	-	±1.2%	Input voltage ±10%
Load Regulation	3.3Vout	-	15%	18%	10% to 100% full load
	5Vout	-	8%	13%	
	9Vout	-	7%	9%	
	12Vout	-	6%	8%	
	15Vout	-	5%	8%	
	24Vout	-	5%	7%	
Ripple&Noise		-	50mVp-p	75mVp-p	20MHz Bandwidth, full load

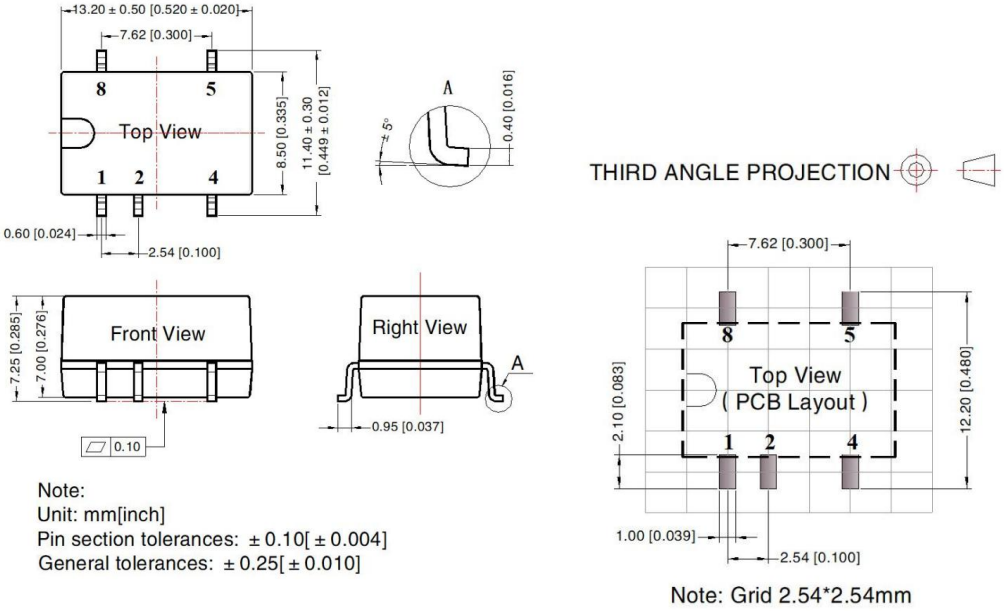
Gerneral Specifications

Switching Frequency	250KHz(Typ)	100% full load, nominal input voltage
Short-Circuit Protection	Continuous, self-recovery	

Case Temperature Rise	25℃（Typ）	
Temperature Coefficient	0.02%/℃	100% full load
Pin Soldering Resistance Temperature	300℃	Soldering spot is 1.5mm away from case for 10 seconds
Isolation（Input-Output）	1.5KVDC	Input-output electric strength test for 1 minute with a leakage current
Insulation Resistance（Input-Output）	1000MΩ	Input-output resistance 500Vdc
Operating Temperature	-40～+105℃	
Storage Temperature	-55～+125℃	
Storage Humidity	<95%	Non-condensing
Cooling Method	Free air convection	
Case Material	Black plastic; flame-retardant and heat-resistant (UL94 V-0)	
Weight	1.3g（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]
Pin section tolerances: ± 0.10[± 0.004]
General tolerances: ± 0.25[± 0.010]

Note: Grid 2.54*2.54mm

Pins

Pin	Mark		
1	GND		
2	Vin		
4	0V		
5	+Vo		
8	NC		

Recommended Circuit

Recommended input and output capacitor values				
Vin	Cin	Vout	Cout	
3.3/5VDC	4.7uF/10V	3.3/5/±3.3/±5VDC	10uF/10V	
12VDC	2.2uF/25V	12/9/±9/±12VDC	2.2uF/25V	
15VDC	1uF/25V	15/±15VDC	1uF/25V	
24VDC	1uF/50V	24/±24VDC	0.47uF/25V	
-	-	-	-	

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.