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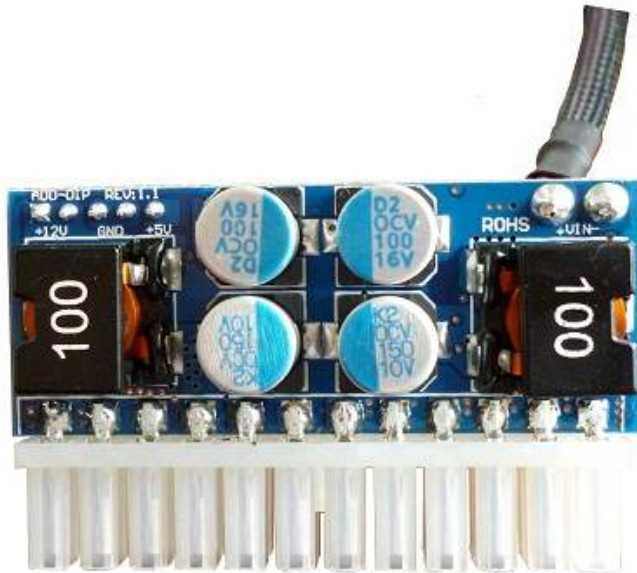
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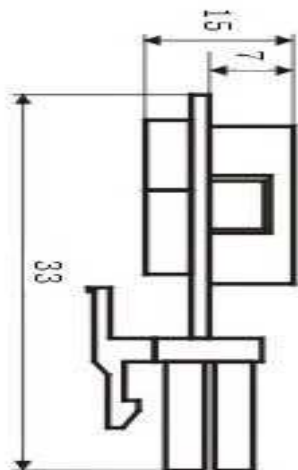
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1>.Product image:



2>. Dimensions:



UNIT:mm

3>.Test condition & Characteristic

3-1. Temperature:

Operating temperature:0°C ~ +40°C
Storage temperature: -20°C ~ +80°C

3-2. Humidity:

Operation humidity: 0% TO 85%
Storage humidity: 10% TO 90%

3-3. Input & Output Voltage:

Input voltage: 11.4V/DC~12.6V/DC
Output voltage: ATX (+12V, +5V, -12V, +3.3V, +5VSB)

3-4. Power:

Max 84 W@100% Load

3-5. Efficiency:

The converter efficiency should not be less than 92% at the maximum load

3-6. Dimensions:

54.4.0mm(L)*15.0mm(W)*33mm(H)

3-7. Pcb size & Material:

Pcb size: 54.4mm*22.0mm*1.6mm
Pcb material:FR-4
Pcb layer:4

3-8. Weight:

The converter weight: about 33 grams.

4>.Electrical characteristic

4-1. Scope

This specification define the performances and characteristics of a 84 watts, 5 output level DC to DCconverter for use in ITX computer system product . This DC output +5VSB is controlled by the DC input, but the other DC output is controlled by the “ PS-ON# “ signal and DC input.

4-2. Input & Output characteristic:

4-2-1. Input characteristic

Parameter	Minimum	Nominal	Maximum	Unit
Input voltage	+11.4	+12	+12.6	Vdc
Input current	8	7.6	7.2	A
Ripple & Noise		120mV	120 mV	Mvp-p
Input OVP	13.2	13.8	14.4	Vdc
Input UVP	--	--	--	--

4-2-2. Output characteristic

MODEL	Vout	Min (V)	Max(V)	min(A)	Max(A)	Ripple (mV)	cable color	SCP
ADDDIP	+12V	11.40	12.60	0	3	120MAX	yellow	Down
	+5V	4.75	5.25	0	5	50MAX	rea	Down
	-12V	-10.80	-13.20	0	0.03	120MAX	blue	NON
	+3.3V	3.14	3.47	0	5	50MAX	orange	Down
	+5VSB	4.75	5.25	0	1	50MAX	purple	Down

4-2-3. Output over voltage protection

Power output	Output	Min(V)	Nom(V)	Max(V)	Unit
OVP	+3.3V	3.7	3.9	4.1	V
	+5V	5.7	6.1	6.5	V
	+12V	13.2	13.8	14.4	V

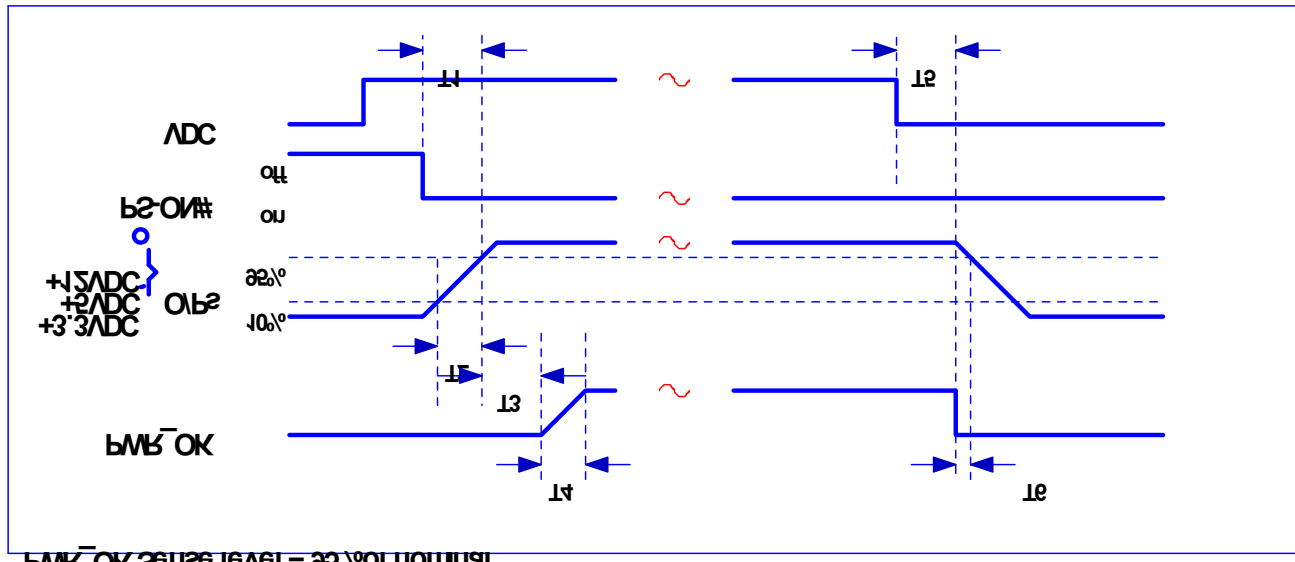
4-2-4. Output under voltage protection

Power output	Output	Min(V)	Nom(V)	Max(V)	Unit
UVP	+3.3V	2.0	2.2	2.4	V
	+5V	3.3	3.5	3.7	V
	+12V	8.5	9.0	9.5	V

4-2-5. Output over power protection

If input voltage is 12V DC,the OPP is 146 W.

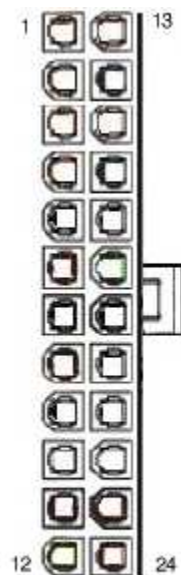
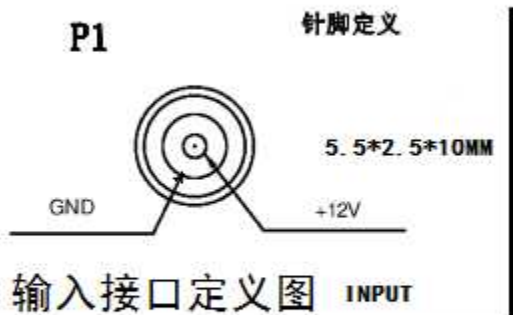
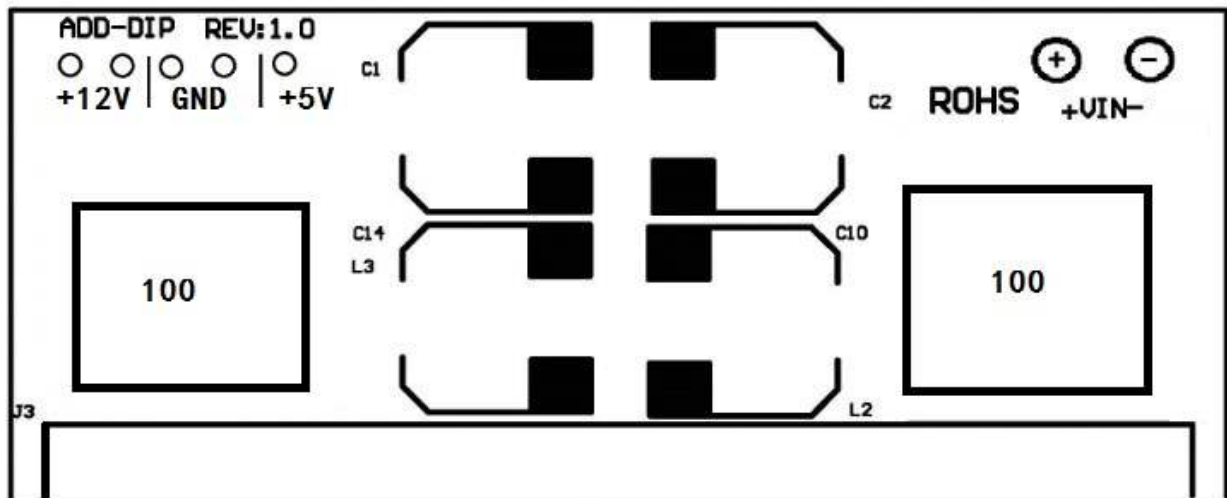
4-3. Signal Time Drawing



bM3-OK sense level = 2.5V nominal

Parameter	Discription	Range
T1	Power-on time	<500ms
T2	Rise time	0.1 ms ≤ T2 ≤ 20 ms
T3	PG delay	100 < T3 < 500ms
T4	PG rise time	<10ms
T5	Dc loss to PG hold-up time	>16ms
T6	Power-down warning	≥ 1 ms

4-4. Input & Output connect

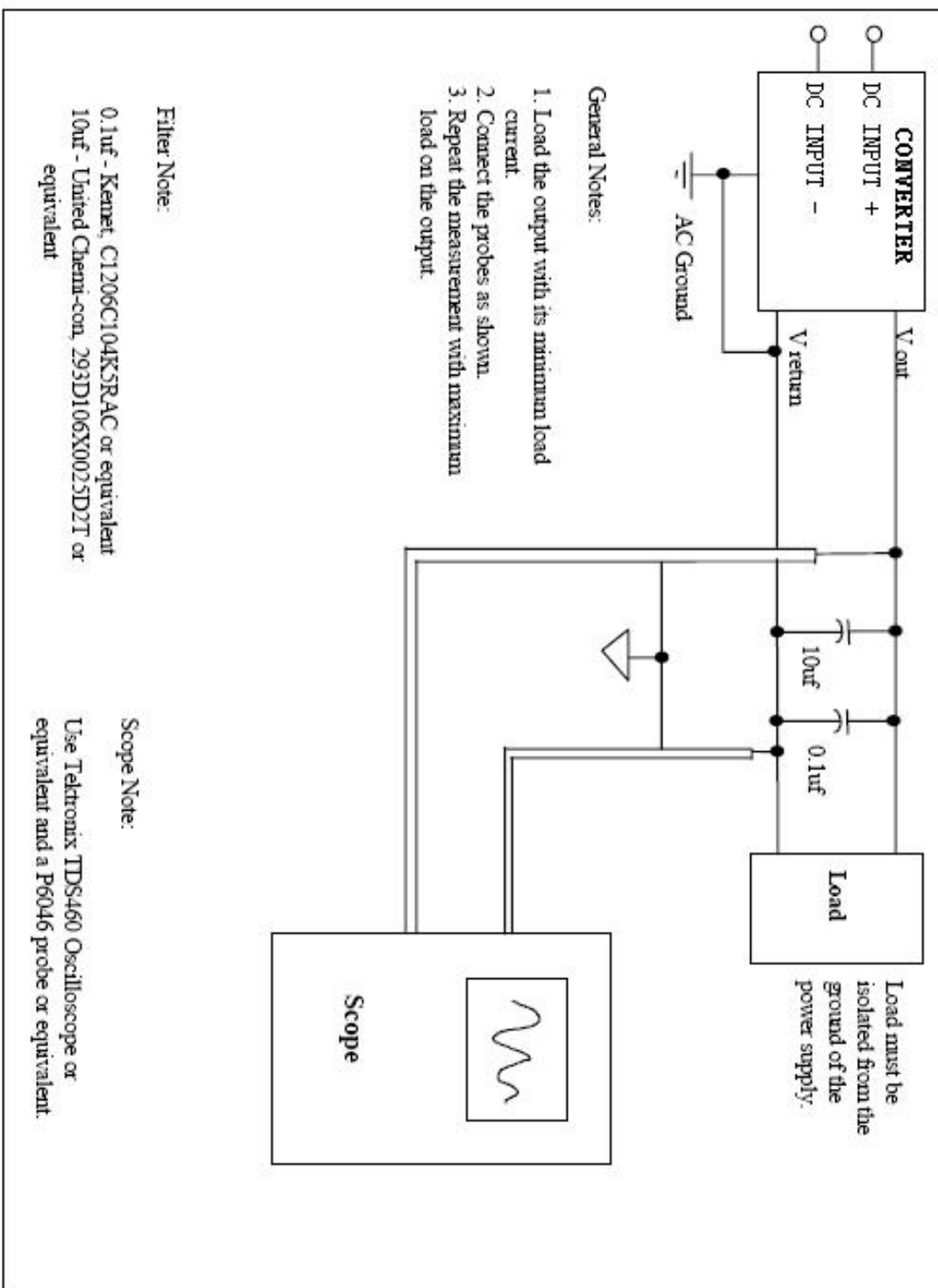


针脚定义

PIN	SIGNAL	PIN	SIGNAL
1	+3.3V	13	+3.3V
2	+3.3V	14	-12V
3	GND	15	GND
4	+5V	16	PS-ON#
5	GND	17	GND
6	+5V	18	GND
7	GND	19	GND
8	PWROK	20	Res
9	5VSB	21	+5V
10	+12V	22	+5V
11	+12V	23	+5V
12	+3.3V	24	GND

输出接口定义图 OUTPUT

5>. Test method:



Differential Noise Test Setup