



MOREX INFORMATION ENTERPRISE CO., LTD.

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Dec 01, 2004

Spec. of 150W D2D(Rev.1.0)

Compact and Silent Power Solution

150W DC-DC CONVERTER POWER BOARD SPECIFICATION (REV.1.0)





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1.0 Function Description

DC.power2 is the specially design the smallest size device for Personal Computer power supply . Fully fit **INTEL ATX Specification Version 2.1 standard Specification** . Provide over voltage protect , Power Voltage Output protect , short circuit protect and process PS—ON control .Electrical voltage security PGI s Signal Protect .

DC.power2 available provide continues 100W-150W efficiency power output (120W version available provide continues output 120W to 150W efficiency) . DC Power input , efficiency power AC ADAPTER INPUT and Voltage is 120W to 160W/minmum DC17V to 19V output request .

2.0 Input AC ADAPTER specially function description

2.1 Output Voltage : DC17V—DC19V

2.2 Output Current : 17V@7.5Amin 19V@6.5A(120W)

17V@9.0Amin 19V@8.0A(150W)

3.0 Output specially function description

Internal 200KHz Oscillator . Output side fully used with the LOW ESR high Performance efficiency wave fillet capacitor and with the BYPASS CAP0.1UF . rising the Power over loading and deduct the NOISE .

3.1 Output Electrical Voltage

Output Voltage	V	+5VSB	+3.3V	+5V	+12V	-12V
Current max	A	2	10.0	12.0	4	0.1

Power Output max	W	10	33	60	48	1.2
Over All Reg	. %	±5%	±4%	±5%	±5%	±10%
Ripple & Noise	mV	50	50	50	120	120



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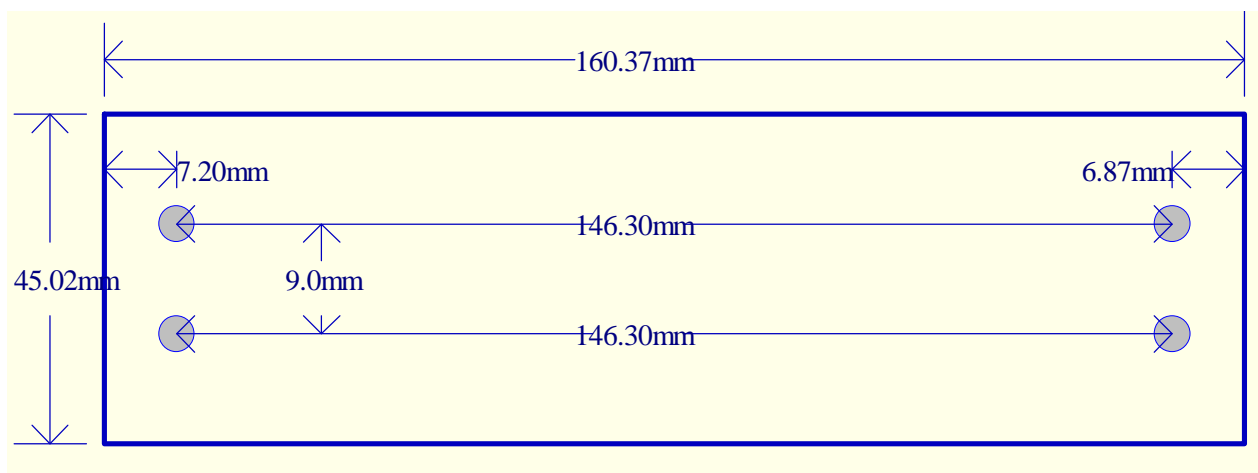
3.2 PROTECT

DC—DC.MW120A1INSIDE PWM CHIPSET Provide the excellent the over loading power short circuit over loading , power output , over voltage-protect function . Normally because the +12Voutput side without PWM chipset adjustment , DC—DC.MW120A1 specially design the +12V power output protect . DC—DC.MW80A1h provide the Electrical Voltage protect functions , also provide the far side remote control PS—ON chipset control and system disk testing device control OK signal PG.

3.3 Overloading:80%min : 80%min

4.0 PCB Description

4.1 PCB Board Dimension : 160.37mm * 45.02mm * 23mm



4.2 Installment Hole : ϕ 3.50mm

4.3 Installment Dimension Draw

4.4 Weight : 100G



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5.0 Input/Output Connector description

5.1 Input connector : WAFER 3.96mm 1*2Pin Connector

Pin	Signal
1	GND
2	DC+17V or DC19V

5.2 Output Connector : ATX 2*10Pin Connector

PIN	Signal	PIN	Signal
1	+3.3V	11	+3.3V
2	+3.3V	12	-12V
3	GND	13	GND
4	+5V	14	PS-ON
5	GND	15	GND
6	+5V	16	GND
7	GND	17	GND
8	PG	18	NC
9	+5VSB	19	+5V
10	+12V	20	+5V

5.3 ATX+12V Connector : WAFER 3.96mm 1*4Pin Connector

Pin	Signal
1	+12VDC
2	GND
3	GND
4	+ 12VDC



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6.0 WORKING Environment Request

6.1 Working Temperature : 0°C to 60°C.

6.2 Save Temperature : -20°C to 70°C

7.0 Outstanding View



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