

RM3253 性能测试报告

-5V_700mA ($\pm 3\%$)

Reactor-micro

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Test Item:

1:Load Regulation;

2:Line Regulation;

3:Output Ripple Voltage;

4:Efficiency;

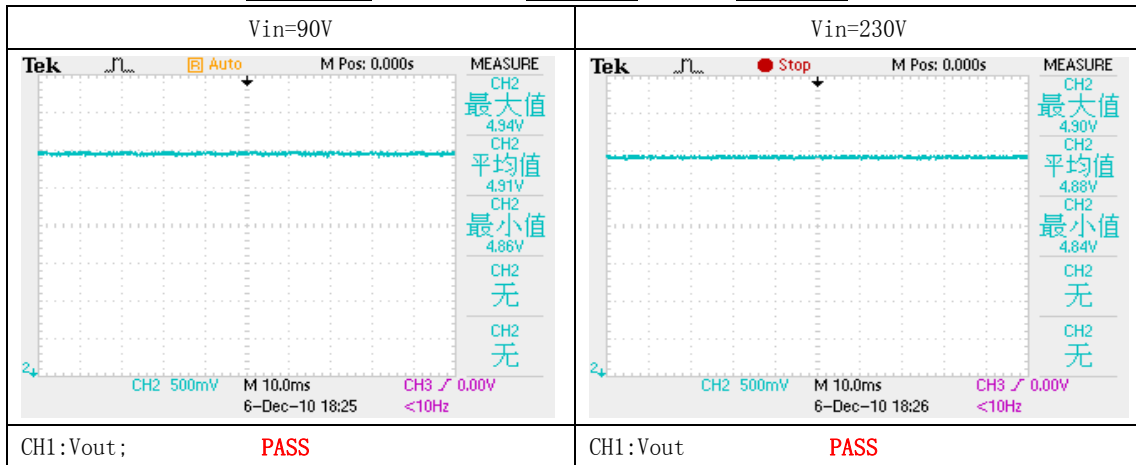
5:OCP;

6:OSP;

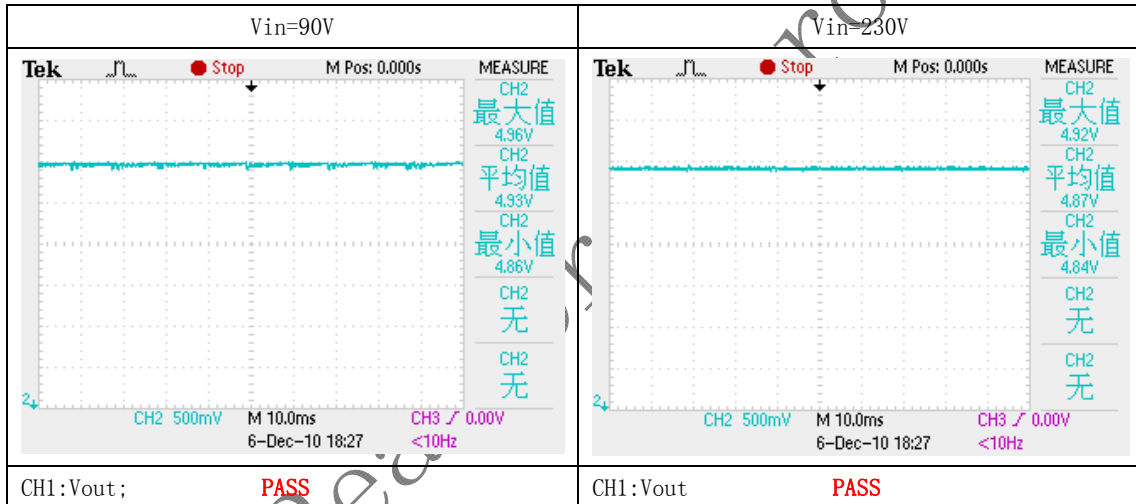
Reactor-micro

1: Load Regulation;

SPEC.: $V_{out(max)} = 5.15V$; $V_{out(min)} = 4.85V$; $I_{load} = 0.35A$;



$V_{out(max)} = 5.15V$; $V_{out(min)} = 4.85V$; $I_{out} = 0.7A$;



Load Regulation= 1%;

2: Line Regulation:

Test Condition: $V_{in}=110V-265V$, $I_{load}=1/2I_{out(max)}$

Vin(V)	110	145	190	235	265
Vout(V)	4.92	4.89	4.89	4.89	4.91

Line regulation: 0.6%; LG(SPEC.): ±1% Result: **PASS**;

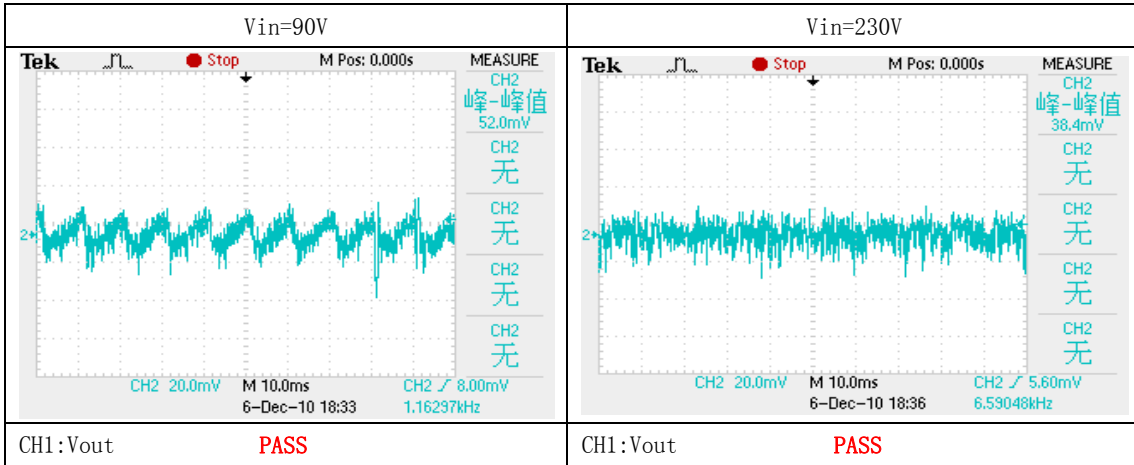
Test Condition: $V_{in}=110V-265V$, $I_{load}=I_{out(max)}$

Vin(V)	110	145	190	235	265
Vout(V)	4.92	4.89	4.88	4.88	4.89

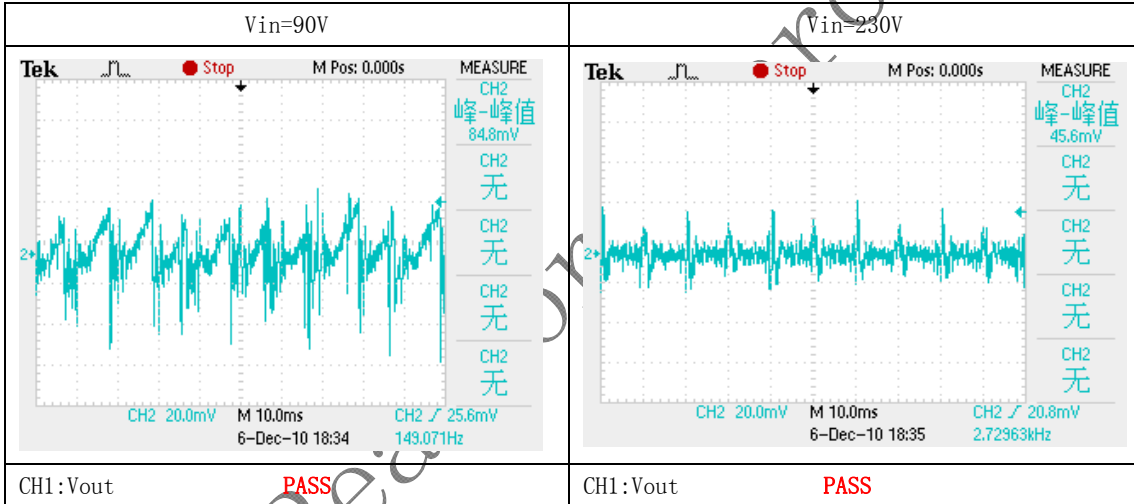
Line regulation: 0.8%; $V_{out(MAX)}$: ±1%; Result: **PASS**;

3:Output Ripple Voltage:

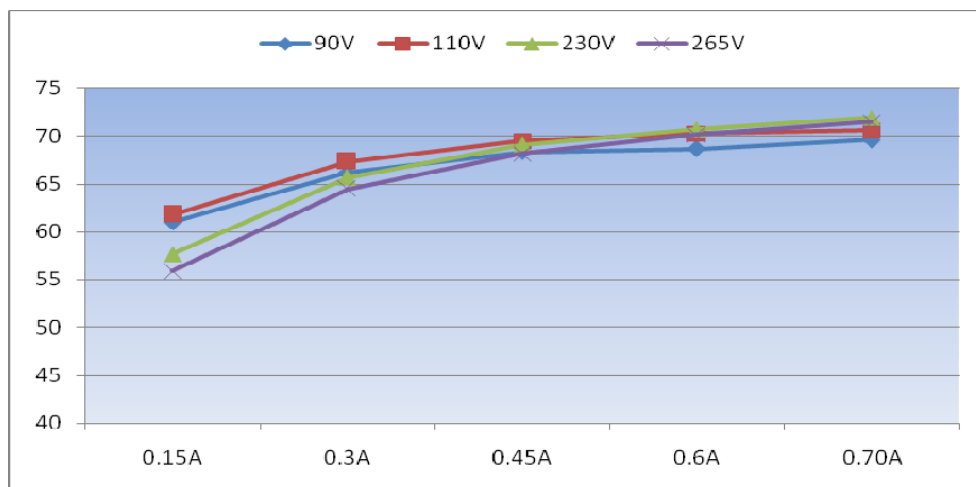
SPEC. :Vripple(max)= 100mV ; Iout=0.35A;



SPEC. :Vripple(max)= 100mV ; Iout=0.7A;



4:Efficiency:



5:OCP

Vin(V)	85V	110V	230V	265V
OCP(A)	1.23	1.3	1.15	1.09
Result	PASS	PASS	PASS	PASS

Notice: $I_{ocp} = (1.5-2) I_{out(max)}$;

6:OSP

Test Way: 短路输出端开机或者先开机后短路, 检测 IC 在这种情况下是否具有自我保护功能, 当负载恢复正常后 IC 可以恢复正常工作, 输出正常; 同时检测此时的输入功率的大小, 此时要求输入功率远小于正常工作时的输入功率。

Vin(V)	90V	110V	230V	265V
Pin(W) (Iout=0.5A)	4.93	4.84	4.73	4.76
Pin(W)	0.06-0.25	0.07-0.5	0.31-0.89	0.49-1.2
Result	PASS	PASS	PASS	PASS