

# RM3253 性能测试报告

-5V\_500mA ( $\pm 5\%$ )

Reactor-micro

测试工程师： 魏小坤 ; 日期： 2010/12/6 ;

审 核： 赵雄飞 ; 日期： 2010/12/6 ;

Test Item:

1:Load Regulation;

2:Line Regulation;

3:Output Ripple Voltage;

4:Efficiency;

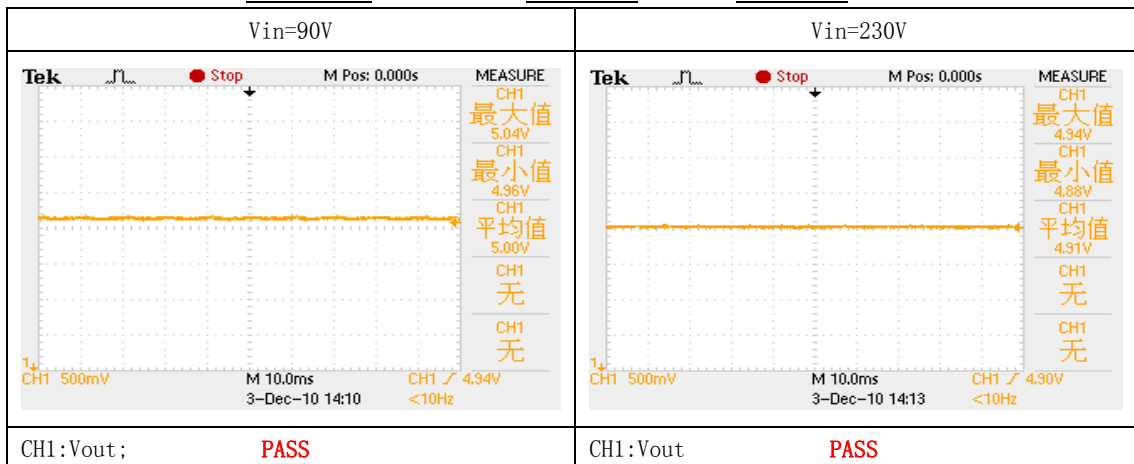
5:OCP;

6:OSP;

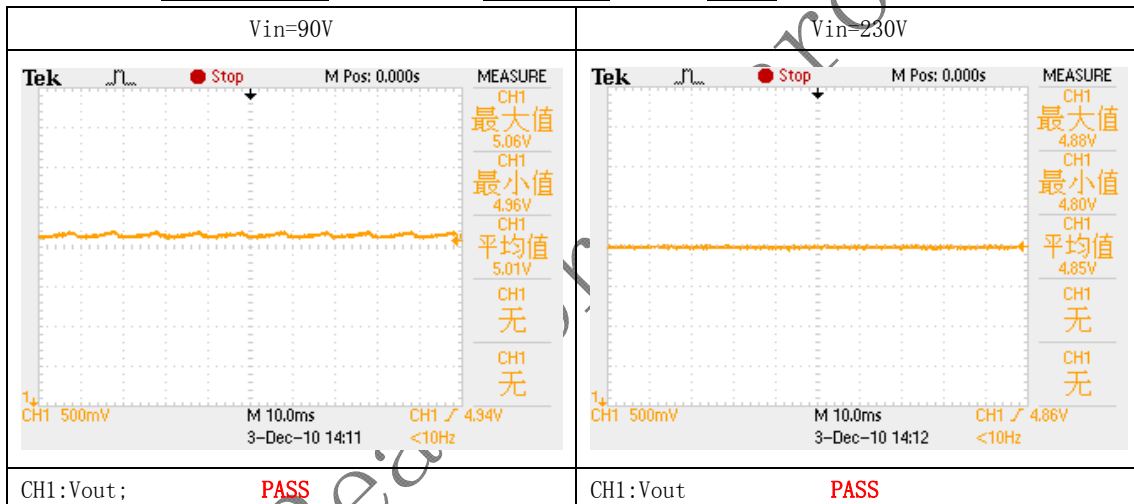
Reactor—micro

## 1: Load Regulation;

SPEC.:  $V_{out(max)} = 5.25V$ ;  $V_{out(min)} = 4.75V$ ;  $I_{load} = 0.25A$ ;



$V_{out(max)} = 5.25V$ ;  $V_{out(min)} = 4.75V$ ;  $I_{out} = 0.5A$ ;



## 2: Line Regulation:

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

Vin(V)	110	145	190	235	265
Vout(V)	5.0	4.96	4.93	4.91	4.91

Line regulation: 1.8%; LG(SPEC.): ±3% Result: **PASS**;

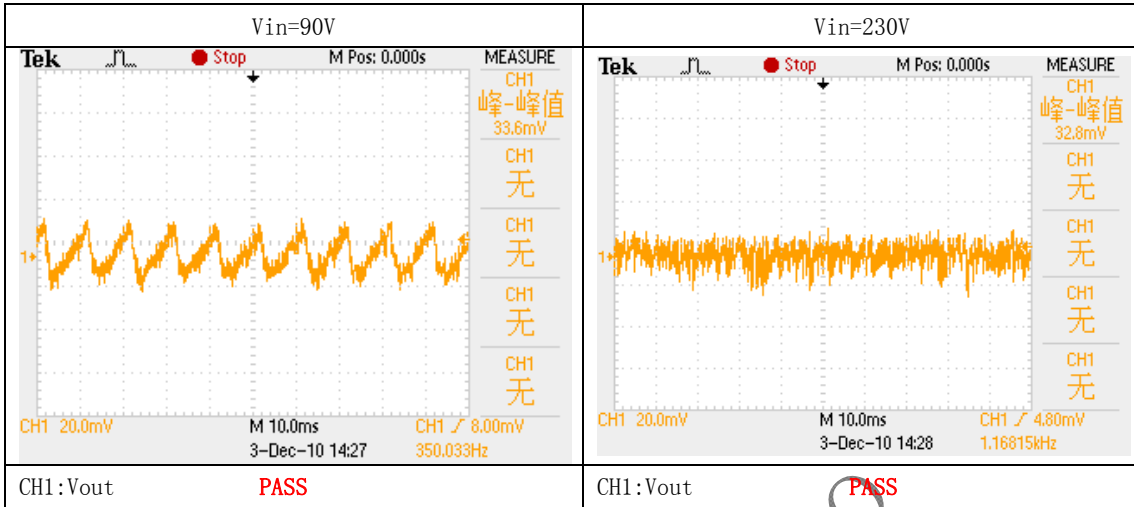
Test Condition:  $V_{in} = 110V - 265V$ ,  $I_{load} = I_{out(max)}$

Vin(V)	110	145	190	235	265
Vout(V)	4.98	4.92	4.89	4.86	4.86

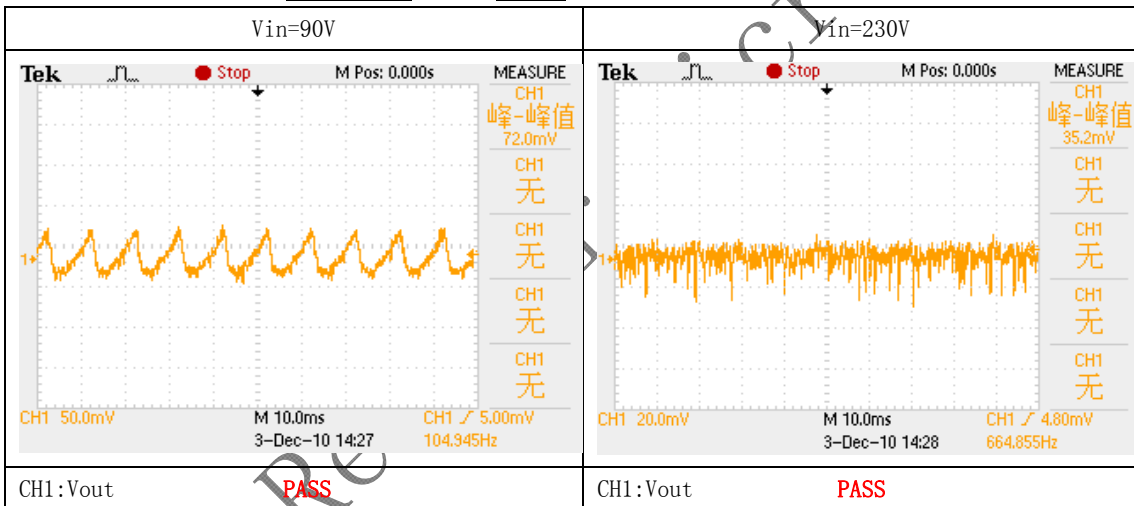
Line regulation: 2.4%;  $V_{out(MAX)}$ : ±3%; Result: **PASS**;

3:Output Ripple Voltage:

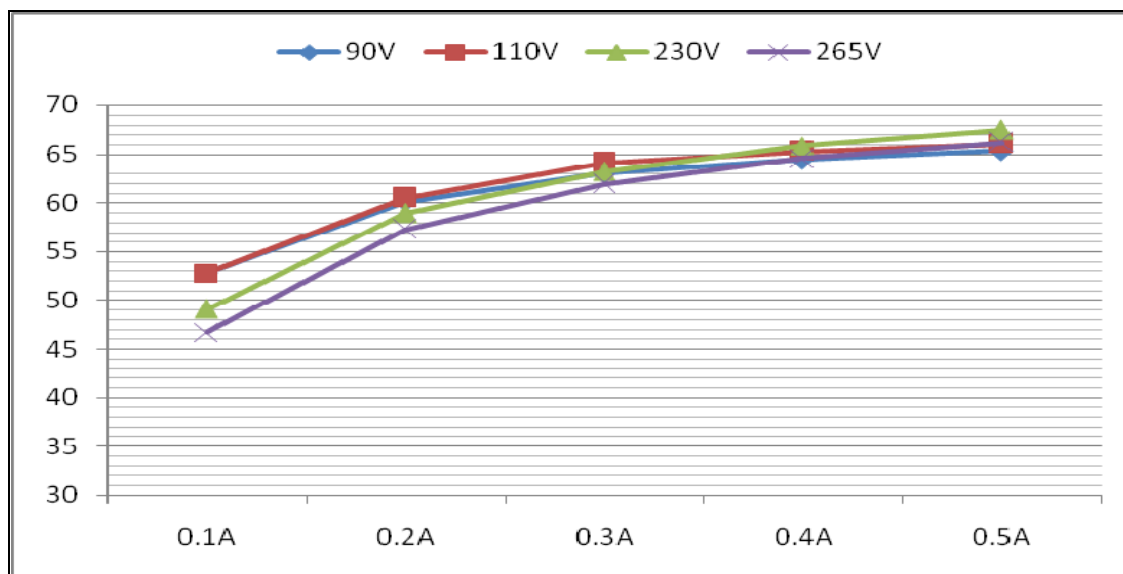
SPEC.: Vripple(max)= 100mV ; Iout=0.25A;



SPEC.: Vripple(max)= 100mV ; Iout=0.5A;



## 4:Efficiency:



## 5:OCP

Vin(V)	85V	110V	230V	265V
OCP(A)	0.89	0.87	0.78	0.76
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)	3.85	3.76	3.61	3.67
Pin(W)	0.05-0.25	0.08-0.27	0.36-0.41	0.42-0.52
Result	PASS	PASS	PASS	PASS