

# RM3253 性能测试报告

-5V\_700mA ( $\pm 5\%$ )

Reactor-micro

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Test Item:

1:Load Regulation;

2:Line Regulation;

3:Output Ripple Voltage;

4:Efficiency;

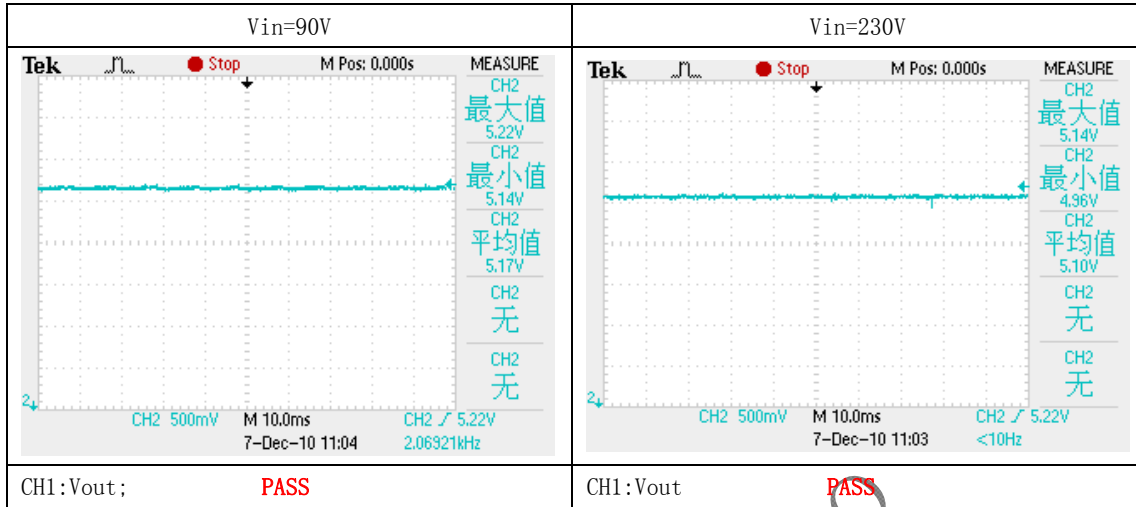
5:OCP;

6:OSP;

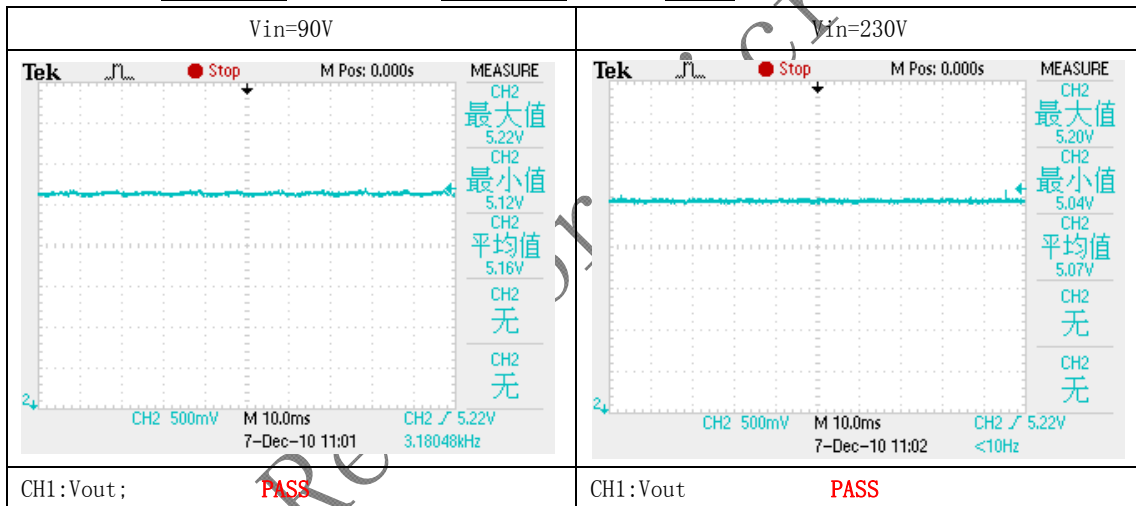
Reactor—micro

## 1: Load Regulation;

SPEC.:  $V_{out(max)} = 5.25V$ ;  $V_{out(min)} = 4.75V$ ;  $I_{load} = 0.35A$ ;



$V_{out(max)} = 5.25V$ ;  $V_{out(min)} = 4.75V$ ;  $I_{out} = 0.7A$ ;



Load Regulation= 3.3%;

## 2: Line Regulation:

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

Vin(V)	110	145	190	235	265
Vout(V)	5.14	5.1	5.08	5.1	5.11

Line regulation: 1.2%; LG(SPEC.): ±3% Result: **PASS**;

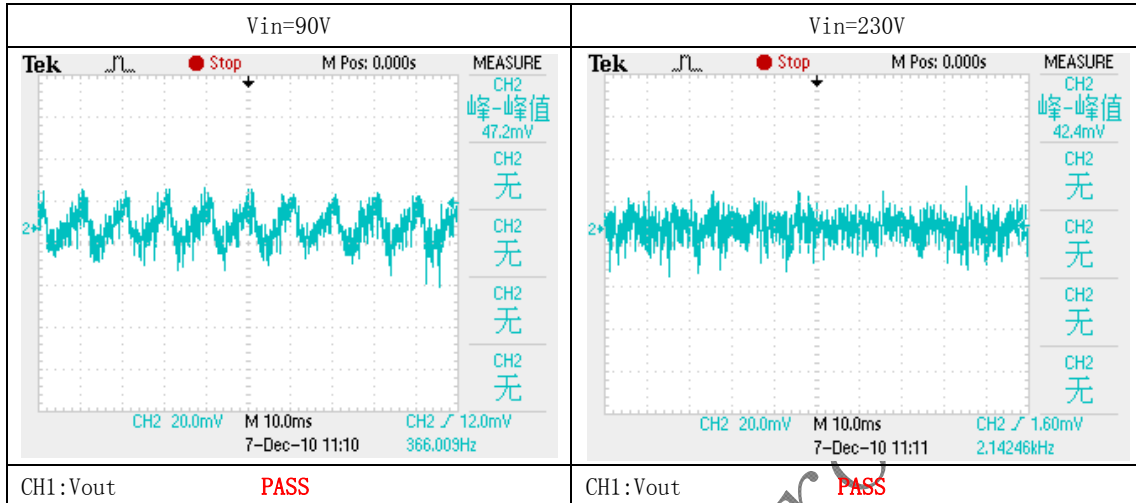
Test Condition:  $V_{in}=110V-265V$ ,  $I_{load}=I_{out(max)}$

Vin(V)	110	145	190	235	265
Vout(V)	5.14	5.09	5.06	5.08	5.09

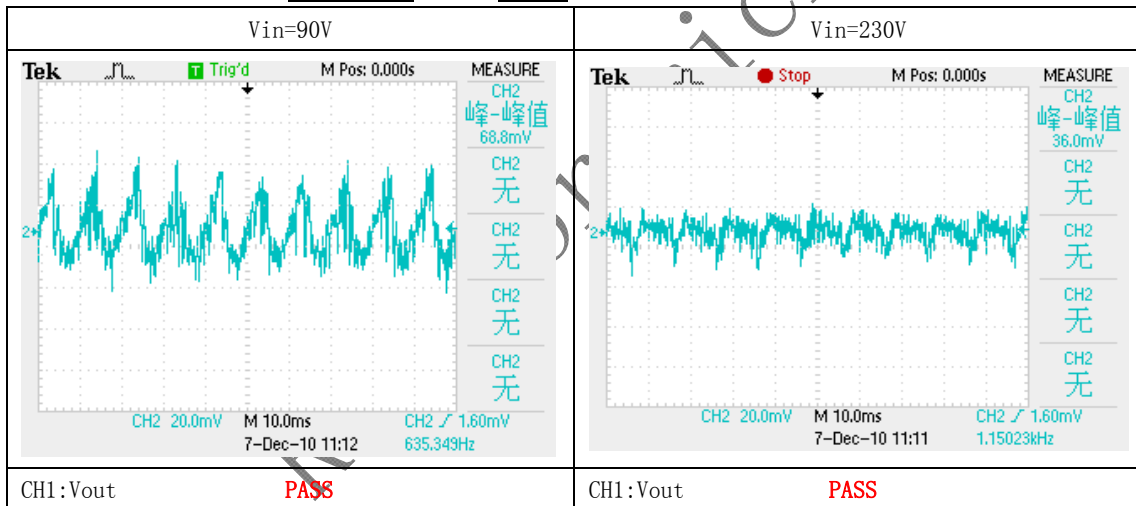
Line regulation: 1.6%; Vout(MAX): ±3%; Result: **PASS**;

### 3:Output Ripple Voltage:

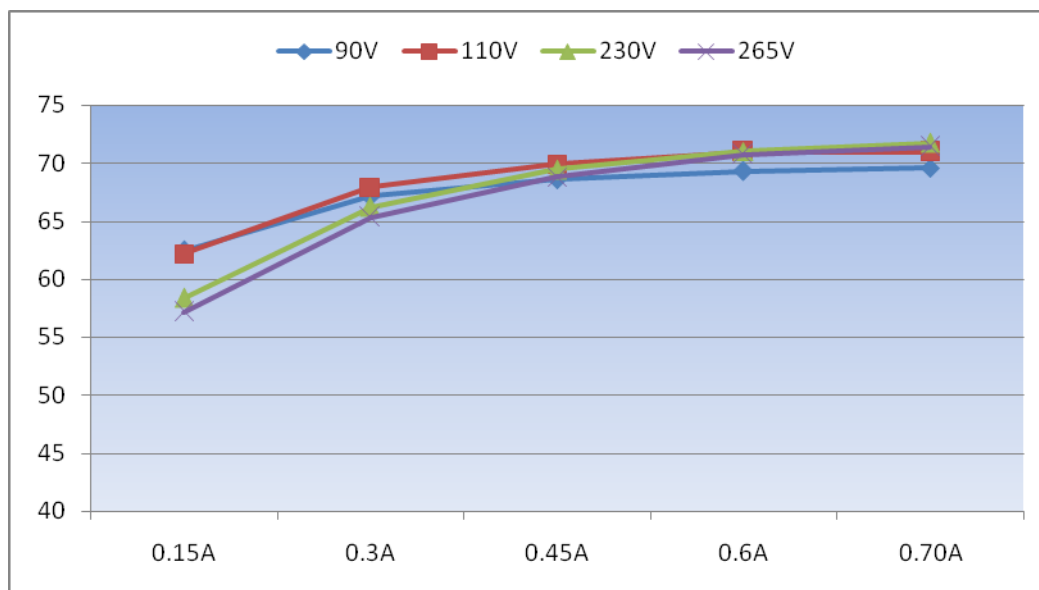
**SPEC.** :Vripple(max)= 100mV ; Iout=0.35A;



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



## 4:Efficiency:



## 5:OCP

Vin(V)	85V	110V	230V	265V
OCP(A)	1.24	1.26	1.16	1.11
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	0.07-0.7	0.31-1.26	0.35-1.34
Result	PASS	PASS	PASS	PASS