



工程样品测试报告 (Engineering Test Report)

使用SC1117芯片设计的  
20V@150mA LED驱动电源

2012年04月01日, REV-A  
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# 1. 电源产品规格

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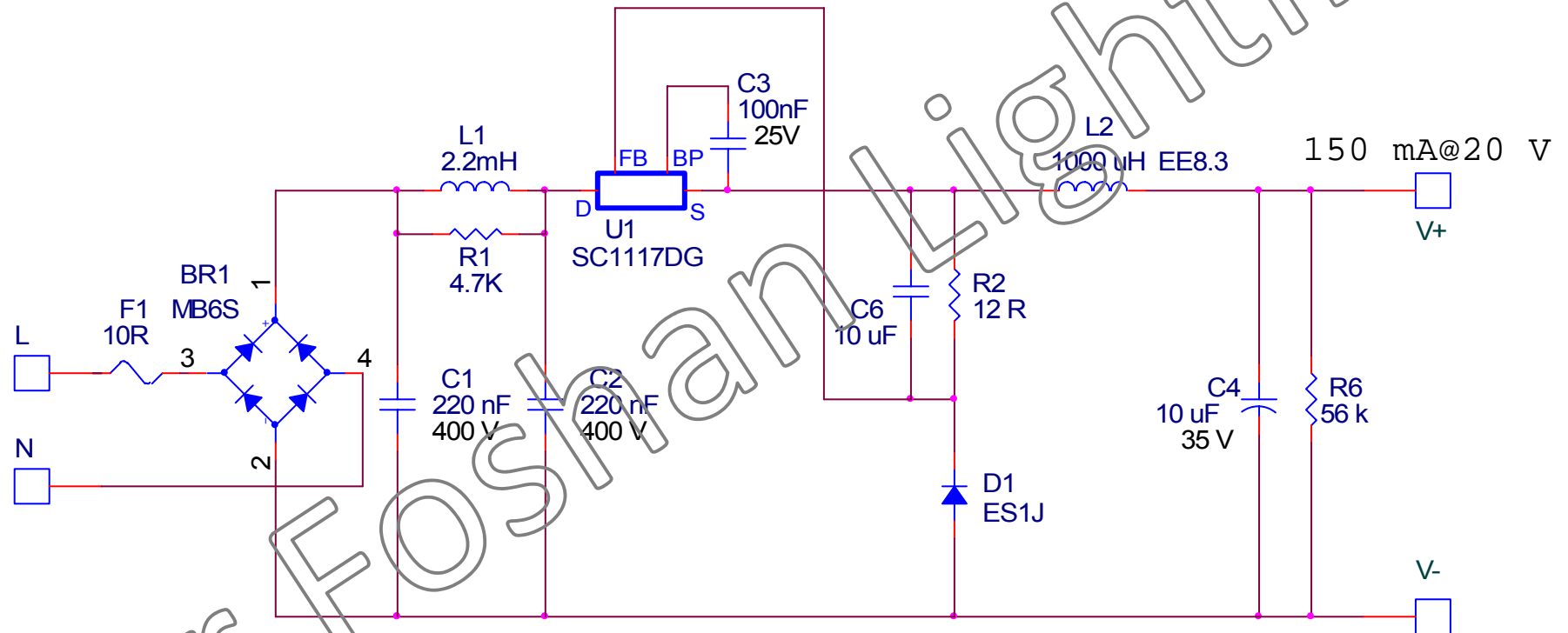
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描述	符号	最小值	典型值	最大值	单位	附加信息/测试条件
输入						
电压	$V_{IN}$	90		265	Vac	零/火线, 无中线
输出						
输出电压	$V_{out}$		20.0		V	
输出电流	$I_{out}$		0.15		A	
效率	$\eta$	77%				
总输出功率						
持续输出功率	$P_{out}$		3		W	总功率
峰值输出功率					W	
传导电磁干扰		6			dB	
环境温度	$T_{amb}$	0		40	C	空气自然对流

## 2. 线路图

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### 3. 工程样品外观图

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## 4. 零件清单

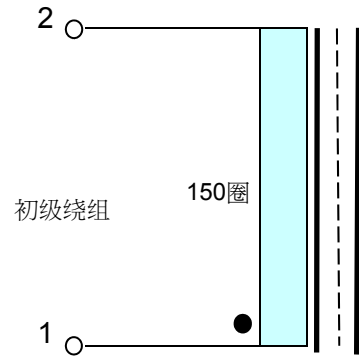
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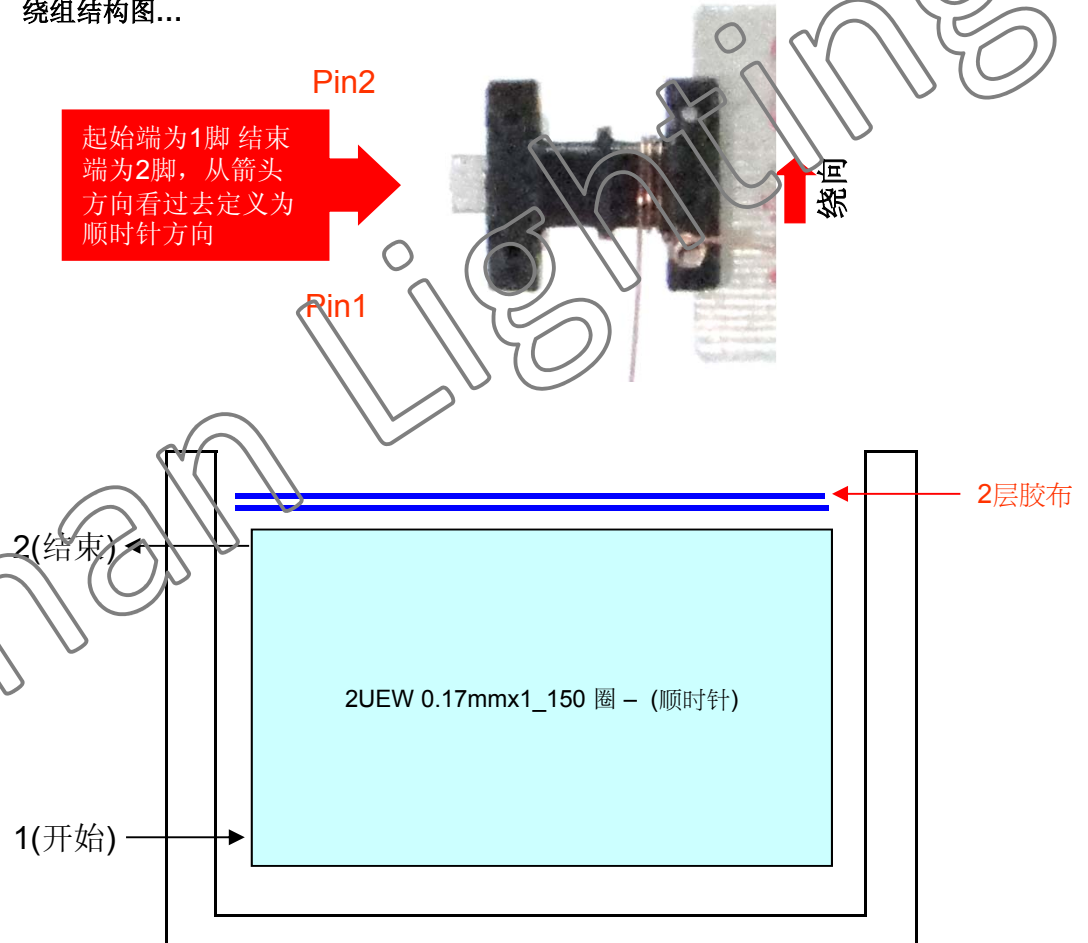
编码	数量	零件位置	具体描述
1	1	BR1	600 V, 1 A, Bridge Rectifier, SMD, MB6S
2	2	C1, C2	220 nF, 450 V, MP-CAP
3	1	C3	100 nF, 50V, Ceramic, X7R, 1206
4	1	C4	10 uF, 35 V, Electrolytic, Low ESR, (5 x 3)
5	1	C6	10 uF, 25 V, Ceramic, X7R, 1206
6	1	D1	600 V, 1 A, Super Fast Recovery Rectifier, 35 nS, SMA, ES1J
7	1	F1	10Ω, 1/2 W, Fuse Resistor
8	1	L1	2.2 mH, 0410
9	1	L2	1000 uH, 0.17mm x 150 T, EE8.3
10	1	R1	4.7 KΩ, 5%, 1/8 W, Thick Film, 0805
11	1	R2	12 Ω, 1%, 1/4 W, Thick Film, 1206
12	1	R6	56 KΩ, 5%, 1/8 W, Thick Film, 0805
13	1	U1	SC1117, SO-8

# 5. 变压器规格

### 示意图



### 绕组结构图...



### 电气规格:

- 1. 感量 (Lp) = 1000 uH ± 7% @66KHz 0.4V

### 材料:

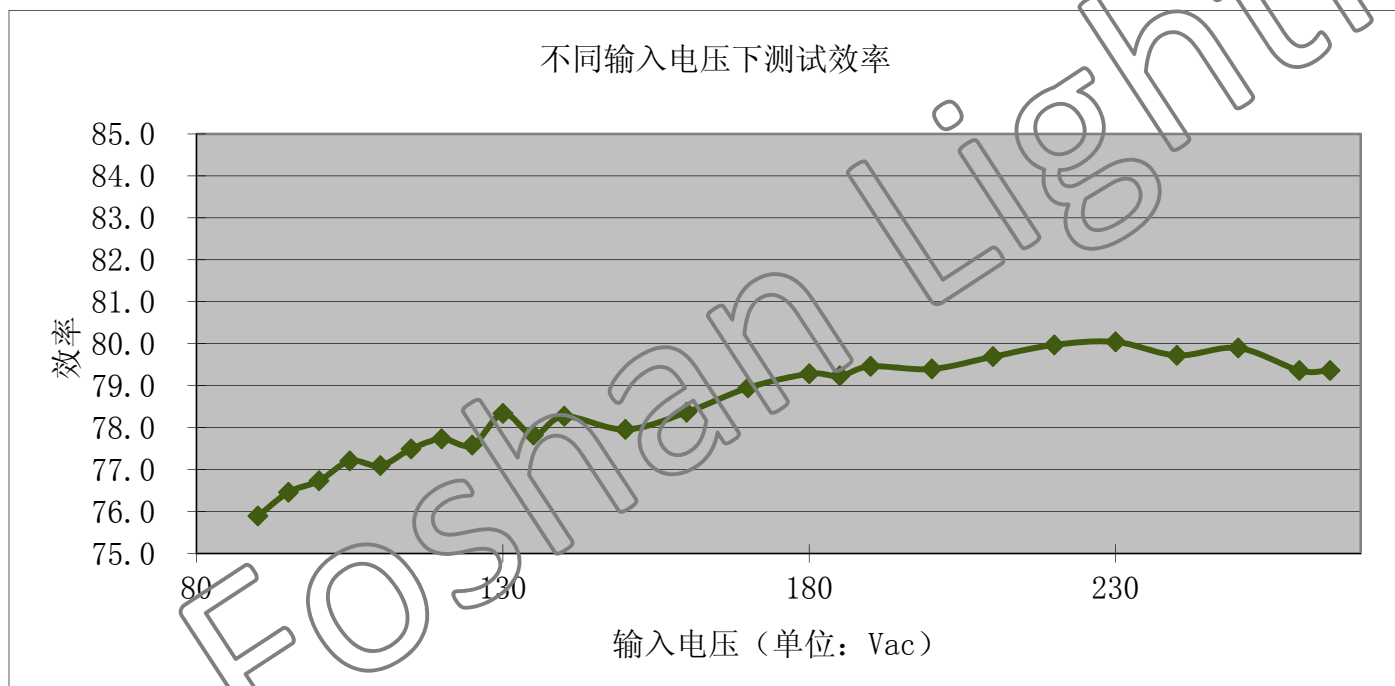
- 1. 磁芯: EE8.3(铁氧体 TBK PC40 或其他等效)
- 2. 骨架: 卧式 (2+2 脚)
- 3. 绕线: 类型 2-UEW
- 4. 绝缘胶布: 3MT298 或其他等效

### 组装:

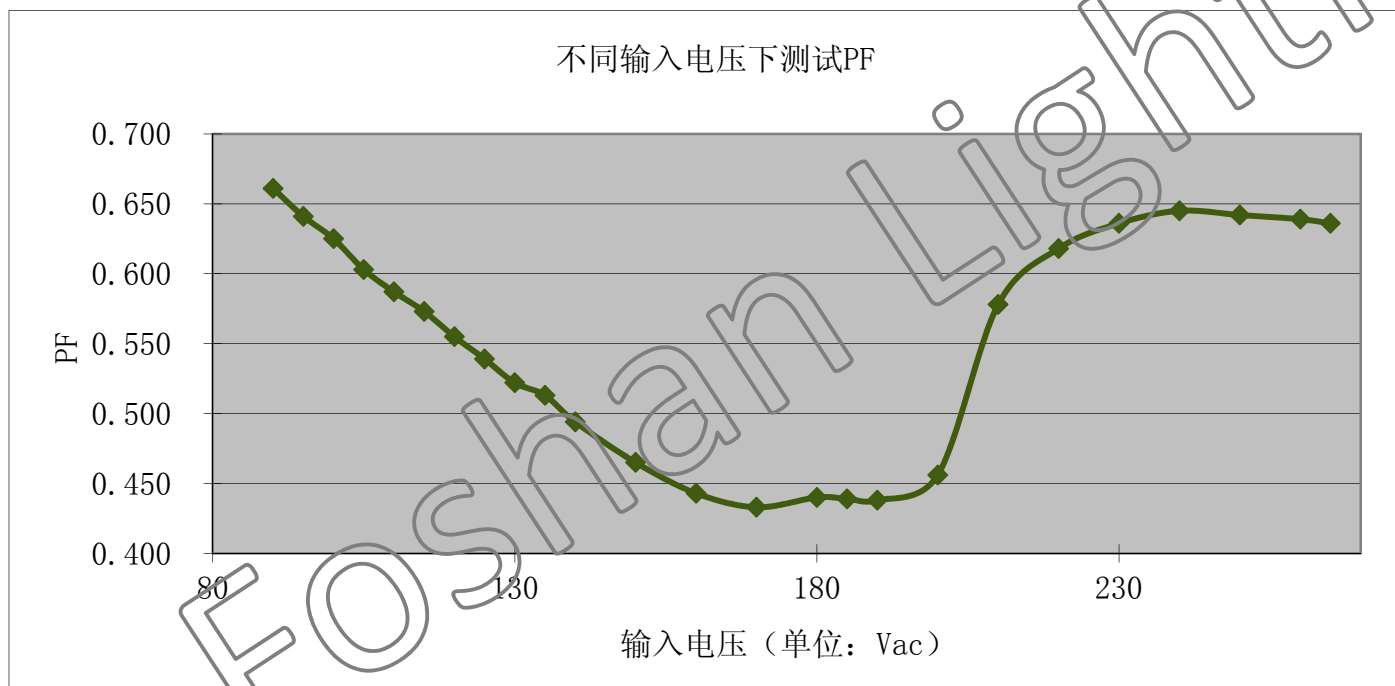
- 1. 组立后需要泡凡立水



## 6. 测试效率



## 7. 功率因数

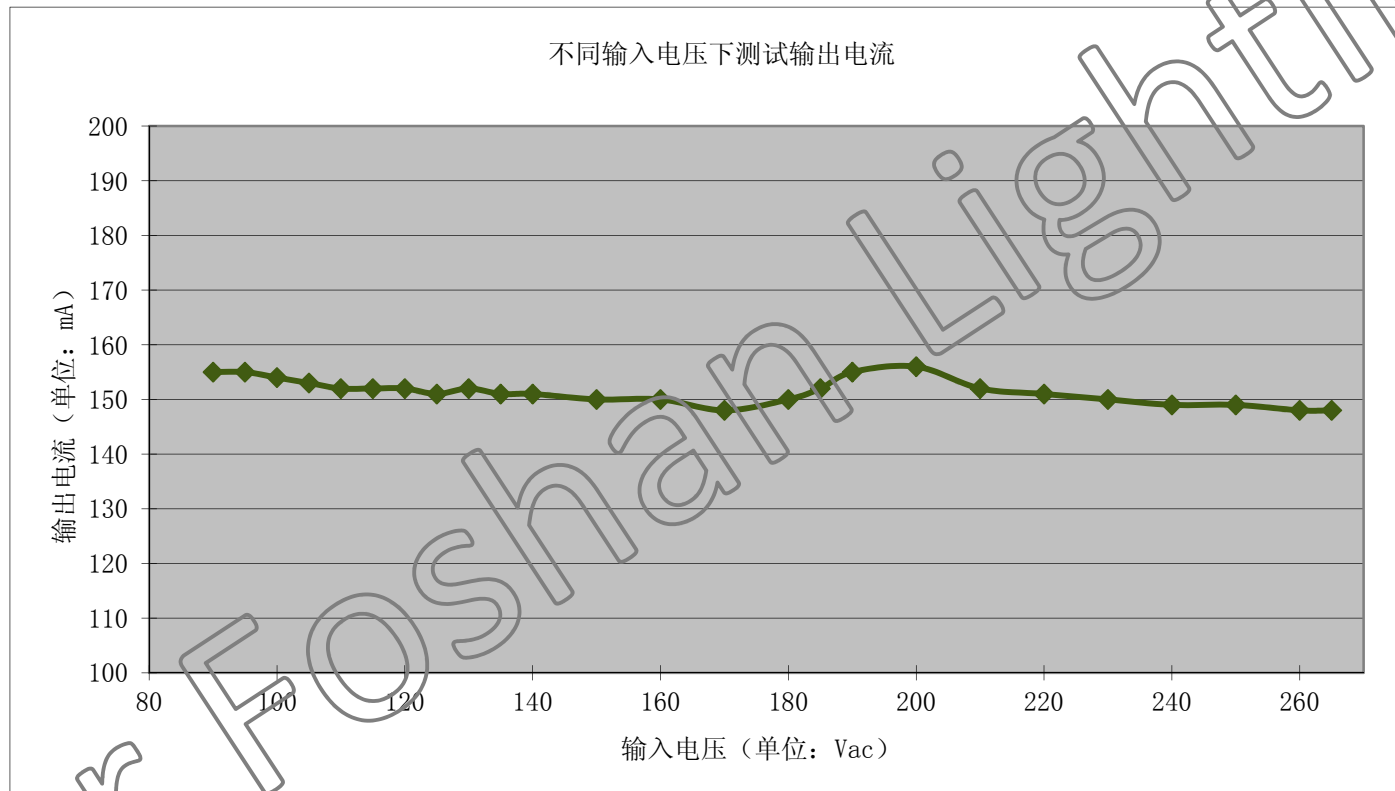




## 8. 输出恒流特性(不同输入电压)

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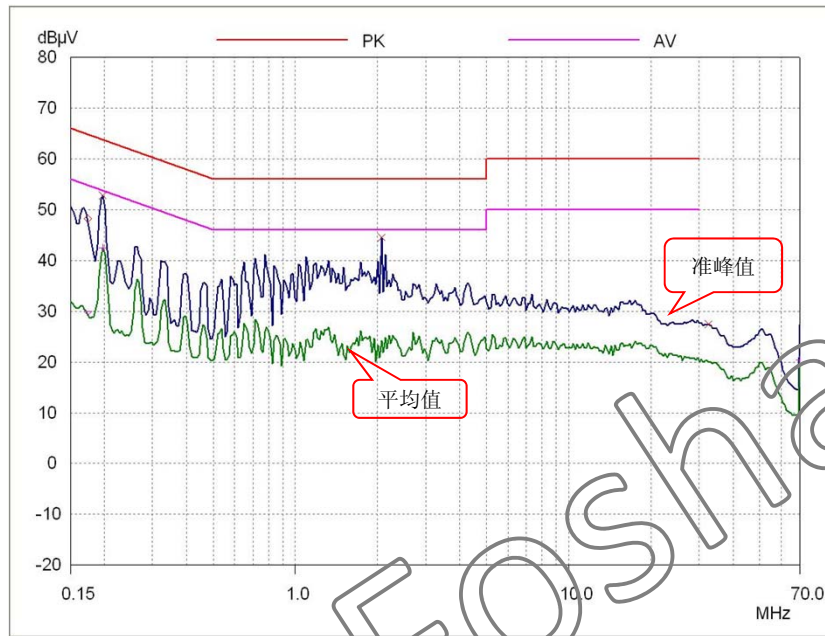


# 9. 传导电磁干扰测试 ( 115V<sub>AC</sub>准峰值和平均值)

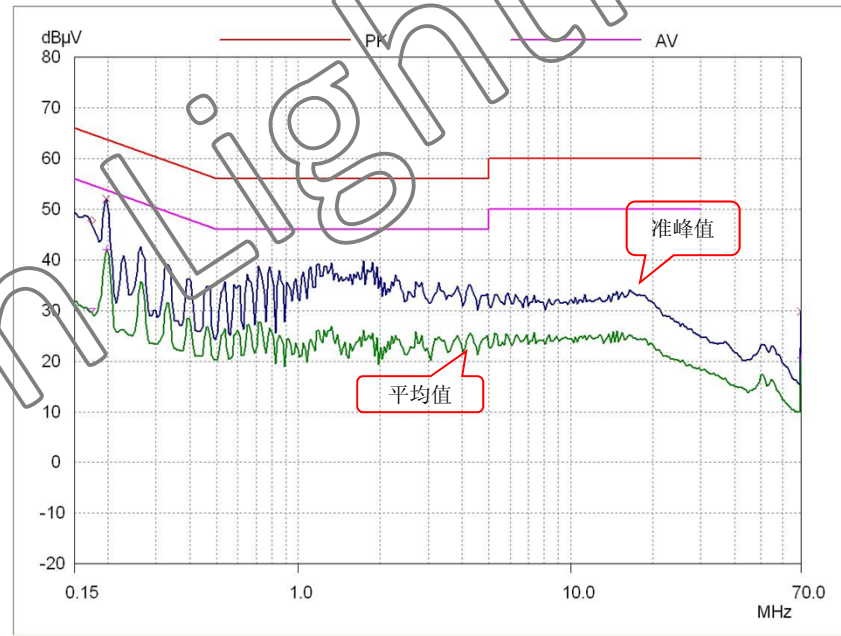
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满载输出



115V<sub>AC</sub> 电压输入, 零线



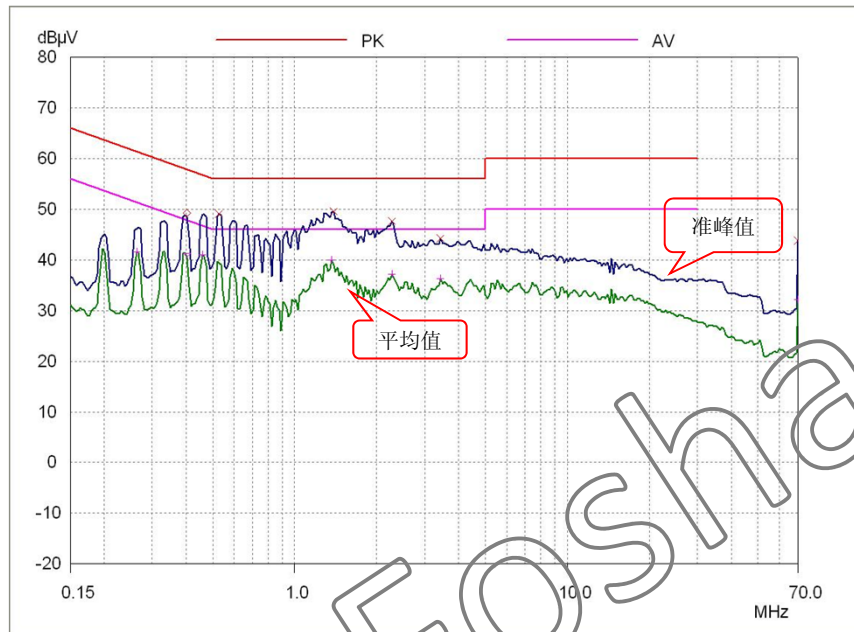
115V<sub>AC</sub> 电压输入, 火线

# 10. 传导电磁干扰测试 ( 230V<sub>AC</sub> 准峰值和平均值)

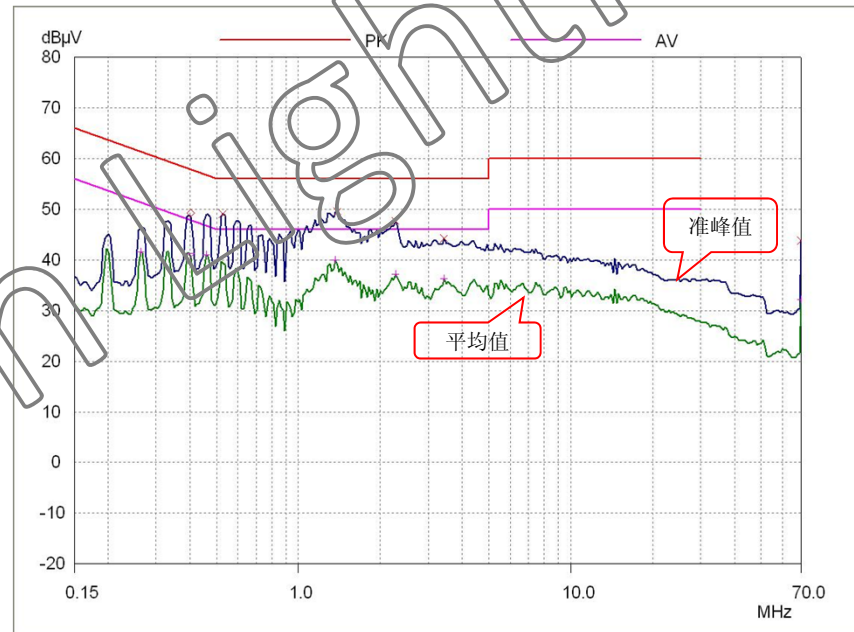
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满载输出



230V<sub>AC</sub> 电压输入, 零线



230V<sub>AC</sub> 电压输入, 火线

# China Sale Contacts and Important Note

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