



宁波市明微电子有限公司
Ningbo Micromile Electronics Co., Ltd

产 品 规 格 书

客户名称 : _____
客户品名 : _____
客户料号 : _____
产品名称 : **LED驱动电源**
产品型号 : **MM-2036A-0700-BML0**
规格书版本: **V1.0**
产品生产商: **宁波市明微电子有限公司**

明微确认			客户确认		
拟 定	审 核	批 准	检 查	审 核	批 准
			合格口		
			不合格口		

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一、产品特性

- ※ 隔离电源，恒流输出，
- ※ 高效率，高 PF 值，低谐波，低纹波
- ※ 保护功能：短路保护，开路保护，过压保护

二、电气性能

产品型号		MM-2036A-0700-BML0
输入性能	输入电压	176~264Vac
	输入频率	50/60Hz
	输入电流	≤100mA
	浪涌电流	≤10A
	空载功耗	0~2.9W 之间跳动
	总谐波失真	<20%
	功率因数	≥0.9 (230Vac)
	效率	82% (230Vac)
输出性能	输出电压	15~25Vdc
	输出电流	<div style="display: inline-block; width: 15px; height: 10px; background-color: black; margin-right: 5px;"></div> 350mA <div style="display: inline-block; width: 15px; height: 10px; background-color: black; margin-left: 20px; margin-right: 5px;"></div> 700mA
	电流精度	<div style="display: inline-block; width: 15px; height: 10px; background-color: black; margin-right: 5px;"></div> 333mA-368mA <div style="display: inline-block; width: 15px; height: 10px; background-color: black; margin-left: 20px; margin-right: 5px;"></div> 670mA-730mA
	纹波电流	3%
	线性调整率	±5%
	温度漂移	±10%
	启动时间	<0.5S (230Vac)
保护功能	开路保护	开路电压<35V
	短路保护	进入打嗝模式, 短路断开后自动恢复
环境描述	工作温度/湿度	-25℃~50℃/10%RH~80%RH
	存储温度/湿度	-40℃~85℃/3%RH~90%RH
安全及规范	认证	符合: TUV, SAA, CE
	耐压	I/P-O/P: 3.75KVac, 5mA, 60S
	绝缘阻抗	I/P-O/P: 0.5KVac, >100MΩ
	浪涌等级	符合 ICE61000-4-5 (L-N:1KV)
	泄漏电流	230Vac&(90uA)
其它	EMC	符合 EN55015
	尺寸及重量	L*W*H: 82.6*42.8*25.5mm , 重量: 80g±5g
	IP 等级	IP20
补充说明	质保	3 年(温度 Tc:65℃, 负载≤100%条件下)
	1、所有性能参数均在温度 25℃情况下, 100%负载测量的典型值, 特别注明除外。 2、电源作为整灯灯具中的一个零部件与终端设备结合使用, 因 EMC 性能受 LED 灯具及走线的影响, 终端设备制造商需对整套装置重新进行 EMC 确认。	

三、产品外观



四、产品尺寸（单位 mm）



五、EMC

5.1 传导骚扰/ EN55015 Conduction(QP)

L1:AC230V/50Hz



Shenzhen Alpha Product Testing Co., Ltd.
Building i, No.2, Lixin Road, Fuyong Street,
Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB

Phase: **L1**

Temperature: 24

Limit: EN 55015 Conduction QP

Power: AC 230V/50Hz

Humidity: 56 %

EUT:

M/N: MM-2036A

Mode: Lighting

Note: 工字电感改 2mH

Engineer Signature:

Conducted Emission Measurement

File :2019

Data :#8

Date: 2019-5-21

Time: 16:18:50



No.	Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Detector	Comment
		MHz	dBuV	dB	dBuV	dBuV	dB		
1	*	0.1500	47.10	9.63	56.73	66.00	-9.27	peak	
2		1.2205	28.15	9.75	37.90	56.00	-18.10	peak	
3		6.6805	27.47	10.12	37.59	60.00	-22.41	peak	
4		16.7805	34.95	10.18	45.13	60.00	-14.87	peak	

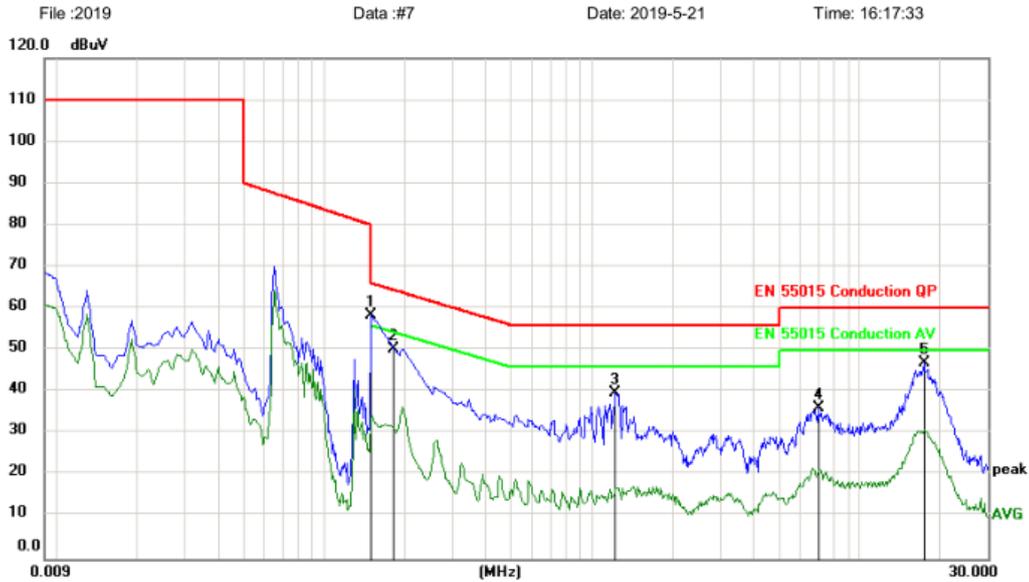
N:AC230V/50Hz



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Bao'an District, 518103, Shenzhen, Guangdong, China

Site LAB	Phase: N	Temperature: 24
Limit: EN 55015 Conduction QP	Power: AC 230V/50Hz	Humidity: 56 %
EUT:		
M/N: MM-2036A		
Mode: Lighting		
Note: 工字电感改 2mH		
Engineer Signature:		

Conducted Emission Measurement



No.	Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measure- ment dBuV	Limit dBuV	Margin dB	Detector	Comment
1	*	0.1500	48.57	9.63	58.20	66.00	-7.80	peak	
2		0.1815	40.75	9.64	50.39	64.42	-14.03	peak	
3		1.2205	29.91	9.75	39.66	56.00	-16.34	peak	
4		7.0005	25.90	10.11	36.01	60.00	-23.99	peak	
5		17.4005	36.75	10.16	46.91	60.00	-13.09	peak	

5.2 辐射骚扰/EN 55015 3m Radiation (QP)

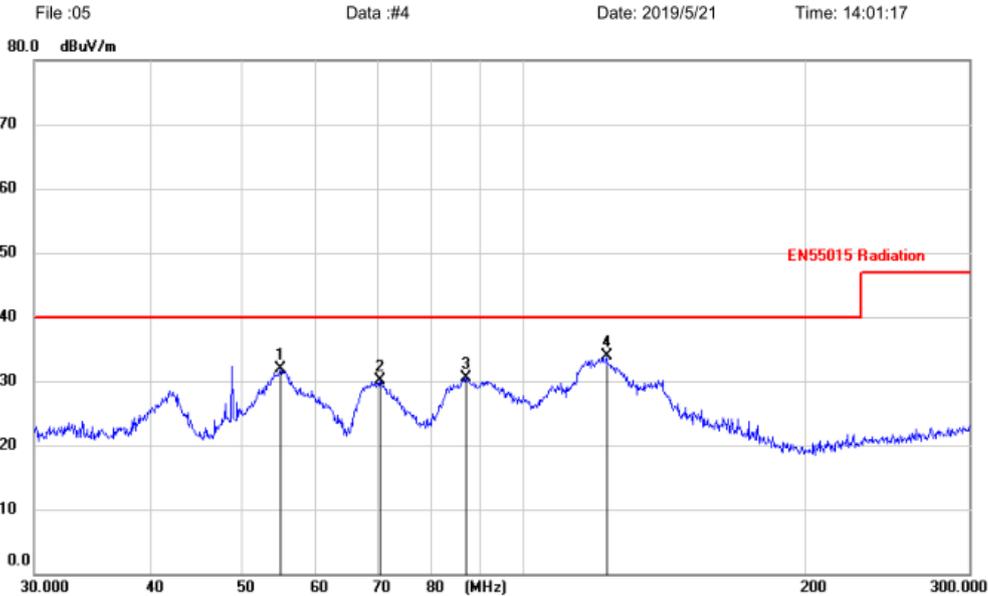
垂直: AC230V/50Hz, 3m



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Site LAB	Polarization: Vertical	Temperature: 24
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 56 %
EUT:	Distance: 3m	
M/N: MM-2036A		
Mode:		
Note:		
Engineer Signature:		

Radiated Emission Measurement



No. Mk.	Freq. MHz	Reading Level dBuV	Correct Factor dB	Measurement dBuV/m	Limit dBuV/m	Margin dB	Detector	Antenna Height cm	Table Degree	Comment
1	54.9694	18.64	13.25	31.89	40.00	-8.11	peak			
2	70.4890	19.19	10.88	30.07	40.00	-9.93	peak			
3	86.9203	20.76	9.73	30.49	40.00	-9.51	peak			
4 *	122.7782	21.18	12.77	33.95	40.00	-6.05	peak			

水平: AC230V/50Hz, 3m



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Site LAB	Polarization: Horizontal	Temperature: 24
Limit: EN55015 Radiation	Power: AC 230V/50Hz	Humidity: 56 %
EUT:	Distance: 3m	
M/N: MM-2036A		
Mode:		
Note:		
Engineer Signature:		

Radiated Emission Measurement



No. Mk.	Freq.	Reading Level	Correct Factor	Measurement	Limit	Margin	Antenna Height	Table Degree	
	MHz	dBuV	dB	dBuV/m	dBuV/m	dB	cm	degree	Comment
1 *	118.6100	22.89	12.45	35.34	40.00	-4.66	peak		
2	42.6699	9.82	14.00	23.82	40.00	-16.18	peak		
3	94.2153	15.51	10.08	25.59	40.00	-14.41	peak		