



广东小迈实业有限公司

承认书

本公司已通过 ISO9000：2016质量管理体系认证！

客 户 CUSTOMER		珠海美佳音科技有限公司		
客户产品编码/规格 PRODUCT SPECIFICATION				
品 名 PART NAME		3.5防水耳机插座		
型 号 MODEL		ZB23005-05SBAP-A		
制 样 DSGD BY		10PCS		
审 核 CHKD BY				
送样单位 Apple From	采购部 PURCHASE	品保部 Q C	工程部 R & D	零件承认章 APPROVAL SIGNET
审 核 CHKD BY				
承认单位 Recognition unit				
审核结果： APPROVAL RESULT:		合格 ☐ OK		
说 明： REMNRK: _____		不合格 ☐ NG		
		确认后敬请回签 1 份		

本厂工程部审核：
ENGINEERING DEPT:



日期：202412/27

广东小迈实业有限公司

LZG INDUSTRIAL CO., LTD.

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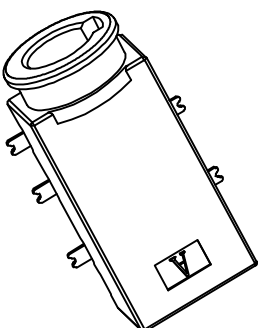
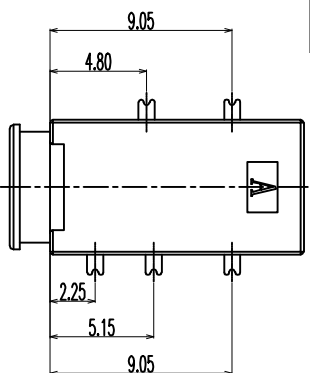
邮箱：lzg@xmconn.com

网址：www.xmconn.com

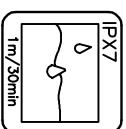
ROHS

让客户 100%满意的务实诚信供应商！

RoHS
Compliant

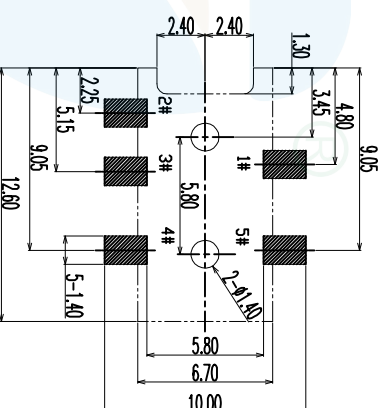
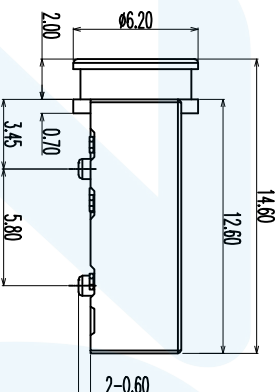
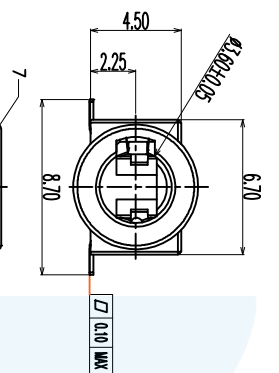


3D VIEW

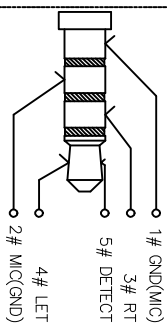
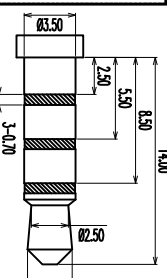
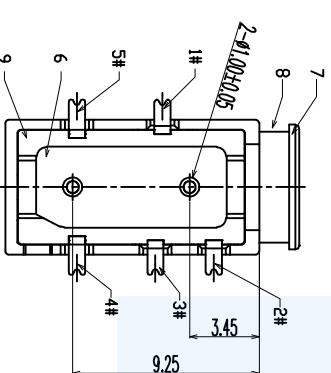


NOTES

1. CURRENT RATING: 1A.
2. CONTACT RESISTANCE: 100mΩ MAX.
3. INSULATION RESISTANCE: 100MΩ MIN.
4. DIELECTRIC WITHSTANDING: 500V AC MIN.
5. DURABILITY: 5000 CYCLES MIN.
6. CONNECTOR MATING FORCES: 3~30N.
7. CONNECTOR UNMATING FORCES: 3~30N.X.
8. SALT SPRAY: 24HOUR
9. WATERPROOF LEVEL: IP67.
10. OPERATING TEMPERATURE: -25℃ TO +85℃.



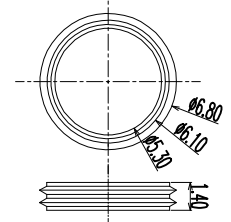
PCB LAYOUT (TOP VIEW)
TOLERANCE: ±0.05



4
0.3.50mm 4 POLE PLUG DETAIL

0.3.50mm 4 POLE PLUG SCHEMATIC

SCHEMATIC



BLACK WATERPROOF RING

Not to install the waterproof ring shipment

NO.	DESCRIPTION	MATERIAL	REMARKS	QTY
9	GLUE	EPOXY	COLOR BLACK	1
8	WATERPROOF RING	SILICONE	COLOR BLACK	1
7	HOUSING	HIGH TEMPERATURE	COLOR BLACK	1
6	COVER	HIGH TEMPERATURE	COLOR BLACK	1
5	TERMINAL 5#	STAINLESS STEEL	NICKEL UNDERPLATING OVERALL, GOLD FLASH PLATING ON THE SOLDER & CONTACT AREA	1
4	TERMINAL 4#	STAINLESS STEEL	NICKEL UNDERPLATING OVERALL, GOLD FLASH PLATING ON THE SOLDER & CONTACT AREA	1
3	TERMINAL 3#	PHOSPHOR BRONZE	NICKEL UNDERPLATING OVERALL, GOLD FLASH PLATING ON THE SOLDER & CONTACT AREA	1
2	TERMINAL 2#	PHOSPHOR BRONZE	NICKEL UNDERPLATING OVERALL, GOLD FLASH PLATING ON THE SOLDER & CONTACT AREA	1
1	TERMINAL 1#	STAINLESS STEEL	NICKEL UNDERPLATING OVERALL, GOLD FLASH PLATING ON THE SOLDER & CONTACT AREA	1



LZG INDUSTRIAL CO., LTD

PART NAME WATERPROOF 0.3.5 PHONE JACK
PART NO. ZB23005-05SBAP-A

TOLERANCE UNLESS 0.0±0.25
OTHERWISE SPECIFIED: 0.000±0.10

0.0'±2'
0.0'±1'
0.00'±0.5'

UNIT: mm

DRAWING NO. ZB23005-05SBAP-A

DATE: 2020.02.18
DATE: 2020.02.18
DATE: 2020.02.18

CHECK: 林生财
APPROVAL: 李宏鑫
新进宝

DWG. NO. SHEET 1/1

1. SCOPE (范围)

1.1. CONTENTS (目录)

This specification covers the performance, methods and quality requirements for **PHONE JACK Plug and Receptacle Connector**.

此份规格书包含了 **PHONE JACK** 插头和母座连接器的性能、测试及品质要求。

1.2. QUALIFICATION (条件)

When tests are performed on the subject product line, the procedures specified specifications shall be used. All inspections shall be performed using the applicable inspection plan and product drawing.

当所有测试项目被应用于生产线时，规格书上的这些指定程序将被使用，所有的检验须按对应的检验规范及产品图纸执行。

2. APPLICABLE DOCUMENT (使用文件)

The following documents form a part of this specification to the extent specified herein. Unless otherwise specified, the latest edition of the document applies. In the event of conflict between the requirements of this specification and the product drawing, the product drawing shall take precedence. In the event of conflict between the requirements of this specification and the referenced documents, this specification shall take precedence.

来至此规格书的部分文件仅限用于此，除非有最新版本文件指定发行，当此规格书标准与产品图纸相冲突时，以产品图纸为准，当此规格书与参考文献相冲突时，以此规格书为准。

3. REQUIREMENTS (要求)

3.1. DESIGN AND CONSTRUCTION (结构设计)

Product shall be of the design, construction and physical dimensions specified on the applicable product drawing.

产品的设计、结构和物理尺寸须详细的标示在产品图纸上。

3.2. MATERIALS (材质)

A. Housing : Refer To XMEC Drawings

胶芯：参考图纸

B. Contact : Refer To XMEC Drawings

端子：参考图纸

C. Shell/Latch : Refer To XMEC Drawings

外壳/挂钩：参考图纸

3.3. RATINGS (额定)

A. Voltage: 12 V DC (RMS. max)

电压：直流电 12V

B. Current: 1 A ampere for contact rating

电流：额定电流为 1 安培

C. Operating Temperature: -25 °C to +85°C

工作温度：-25 °C~ +85°C

3.4. PERFORMANCE REQUIREMENT AND TEST DESCRIPTION (性能测试要求与条件)

The product shall be designed to meet the electrical, mechanical and environmental performance requirements specified in Figure 1. All tests shall be performed at ambient environmental conditions.

表 1 详述了产品的电气、机械和环境的测试要求，所有测试都须在室温下执行。

3.5. TEST REQUIREMENTS AND PROCEDURES SUMMARY (测试条件与步骤摘要)

TEST ITEM (测试项目)		REQUIREMENT (规格)	PROCEDURE (步骤)
1	Appearance of Product 产品外观	Meets requirements of product drawing. No physical damage. 对照产品图纸，无物理损伤	Visual inspection. EIA-364-18 目视检查。 参考 EIA-364-18
ELECTRICAL REQUIREMENT (电气性能)			
2	Contact Resistance 接触阻抗	100 mΩMax(Initial) 初始时最大 100 毫欧姆	Subject mated contacts assembled in housing to 20mV Max open circuit at 100mA Max. EIA-364-23B 成对的端子与胶芯组装后，最大电压 20 毫伏，短路电路最大 100 毫安培。 参考 EIA-364-23B
3	Dielectric withstanding Voltage 耐电压	No flashover & spark over & excess leakage & breakdown 不可跳火、不可有火花，不可超出泄漏额，不可击穿	Test voltage 500V AC between adjacent contacts of mated and unmated connector assemblies for one minute. Interval of shield case and contacts too, in the same way. EIA-364-20B 500 伏交流电下测试未配对连接器间相邻端子电路一分钟。 参考 EIA-364-20B
4	Insulation Resistance 绝缘阻抗	Initial :1,000 MΩ min Final(post test) 100 MΩ min 初始：最小 1000 兆欧姆 最终（测试后）最小 100 兆欧姆	Test voltage 100±10V DC between adjacent contacts of mated and unmated connector assemblies. Interval of shield case and contacts too, in the same way. EIA-364-21C. 100±10 伏交流电下测试相邻未配对连接器间电路。 参考 EIA-364-21C
MECHANICAL REQUIREMENT			
5	Mating Force 插入力	3~30 N 3~30 牛顿	Measure force necessary to mate connector assemblies at maximum rate of 12.5 mm(0.492)/min. EIA-364-13 测量插入力需配对的连接器完全契合运行速度 12.5 毫米每分钟。 参考 EIA-364-13
6	Unmating Force 拔出力	3~30 N 3~30 牛顿	Measure force necessary to mate connector assemblies at maximum rate of 12.5 mm(0.492)/min. EIA-364-13 测量拔出力须配对的连接器完全脱离运行速度 12.5 毫米每分钟。 参考 EIA-364-13

7	Durability 寿命测试	Mating Force: 30N Max Unmating Force: 3N Min Contact Resistance: 50 mΩ Max change for post test Appearance: No breakdown 插入力: 最大 30 牛顿 拔出力: 最小 3 牛顿 接触阻抗: 测试完成后改变最大 50 毫欧 外观: 无损伤	Mate and unmated connector assemblies for 5000 cycles at. Cycle rate of 500 cycles per hour if done automatically and 200 if manual cycle. EIA-364-09 插拔次数 5000 次, 若机械循环速度 500 次每小时, 若手动循环 200 次每小时。 参考 EIA-364-09
TEST ITEM		REQUIREMENT	PROCEDURE
8	Solderability 可焊性	Solder tails shall pass 95% Min coverage 粘锡面积最小 95%	Solder temperature: 245±5℃ Duration: 3~5sec. EIA-364-52 焊接温度: 245±5℃ 持续时间: 3~5 秒 参考 EIA-364-52
ENVIRONMENTAL REQUIREMENTS			
9	Resistance to Soldering Heat 耐焊锡热	No physical damage shall occur 无外观损伤	Pre Heat : 150~180℃, 90±30sec. Heat : 230℃ Min., 35±5sec. Peak Temp. : 260℃±5℃. 10 sec 初始温度: 150~180 摄氏度, 90±30 秒。 温度: 最小 230 摄氏度., 35±5 秒 最高温度: 260±5 摄氏度 10 秒
10	Salt Spray 盐雾测试	Contact Resistance: 50 mΩ Max change for post test Appearance: By visual inspection without noticeable rust 接触阻抗: 测试完成后最大改变 50 毫欧 外观: 无金属本体暴露在外	Subject mated connectors to 35+/-2 °C and 5+/-1% salt condition for 24 hours. After test, rinse the sample with water and recondition the room temperature for 1 hour. EIA-364-26B. 将连接器置于温度 35±2 摄氏度, 盐雾浓度 5±1% 条件下 24 小时后, 用清水清洗样品置于室温下一小时。 参考 EIA-364-26B

NOTE : Shall meet visual requirements, show no physical damage.

注释: 满足视觉要求, 外观无物理损伤

[illegible]