

产品规格书 PRODUCT SPECIFICATION

客户	名称 CUSTOMER	₹:
产品	型号 MODEL: _	TMB12A05
客户	型号 USER'S MC	DDEL: _
\exists	期 DATE:	2021-5- 20

江苏华能电子有限公司	客户回签
HUAWHA	CUSTOMER
SERVE RATIEN	CUSTOMER RATIGY
拟制 神 审核 🌣 批准	检验 审核 批准
REPORT CHÉCKED PROVED	TEST CHECKED APPROVED
王文娟 工棚葬用章 张长华	

江苏华能电子有限公司

JIANGSU HUAWHA ELECTRONICS CO.,LTD

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承认书

客户料号 SPECIFICATION FOR APPROVAL

PN:								
	器件	名称Product	Name:					
	型号	规格Product	Туре:					
	供应商名称Supplier Name:工苏华能电子有限公司							
	制造商名称Manufacturer Name:电磁式蜂鸣器							
制造商料号Manufacturer PN: TMB12A05 12*9.5								
环保属性 Environmental properties: ☑SGS ☑REACH □PAHS □其							亡	
	送承	日期 Supply I	Date:					
供应商确认信息			客户确认信息					
Approved by supplier			Approved by Topband					
拟制	J	批准	业务接口人	器件确认人	采购	研发		

供应商信息 Supplier Information (加盖公章):

1.基本规格/General specification

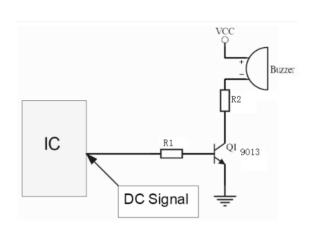
	项目/Item	规格/Spec	条件/Condition
1	额定电压 Rated voltage	5VDC	
2	工作电压 Operation voltage	3~8VDC	
3	声压 Sound Pressure Level=SPL	Min 85dB	测试环境:标准状态,标准驱动电路, 额定电压
4	电流 current	Max30mA	测试距离: 0.1m Standard State,Standard Drive Circuit.
5	振荡频率 Oscillation frequency	2700±300Hz	Rated voltage, Distance at 0.1m
6	工作温度范围 Operating Temperature	-20∼+75℃	
7	保存温度范围 Storage temperature	-30∼+80℃	
8	外部尺寸 Externals size (mm)	Ф 12*Н9.5	参阅附图 Refer to the attached drawing
9	重量 Mass	1.8g	
10	材质 Housing Material	PBT	

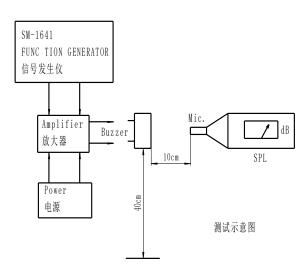
2.电气和声学测试条件/Electrical And Acoustical Measuring Condition

驱动电路/Recommended Driving Circuit

设置 Recommended Setting

Resonant frequency, 1/2 duty cycle. Square wave. Signal amplitude should be large enough tosaturate the transistor.

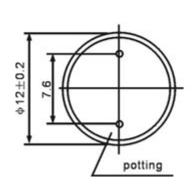


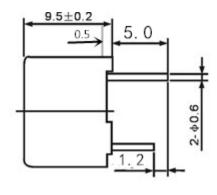


3.可靠性测试/Reliability Test

	事[王/则 以/ Kellability Test	
	项目 ITEM	测试方法 TEST
1	高温试验	在+80℃±2℃储存温度下存放 96 小时,恢复 2 小时后测试
	High Temperature Test	After being placed in a chamber with +80±2°C for 96 hours and then
		being placed in normal condition for 2 hours
2	低温试验	在-20℃±2℃储存温度下存放 96 小时,恢复 2 小时后测试
	Low Temperature Test	After being placed in a chamber with -20±2°C for 96 hours and then
		being placed in normal condition for 2 hours
3	恒定湿热试验	40 °C 90-95% RH
	Humidity Test	25℃
		90-95%RH 5 Hrs 0.5 Hrs 6 Hrs 0.5 Hrs
		5 Hrs 0.5 Hrs 0.5 Hrs 0.5 Hrs
		1 Cycle
4	温度变化试验	+70 °C (+3 °C/-0 °C)
	Temperature Cycle Test	(+10 T/-5 T) +20 T (+10 T/-5 T) (+10 T/-5 T)
		-20 T (+0 T/-3 T)
		30min 15min 30min 15min
		90 min 1 Cycle
	LET - L. V D. T. A.	·
5	振动试验	Peak to Peak(Amplitude)P-P 1.52mm
	Vibration Test	9.86
		0.3G
		10Hz 55Hz
6		70cm 高自由掉落到 40mm 的木板上,每个方向三次
	Drop Test	Drop on a hard wood board of 40mm thick, any directions, three times,
	_	at the height of 70cm
7	插针的抗拉强度试验	插针承受 1.0kg 拉力, 负荷时间 5s
	Terminal Strength Pulling Test	The force 5 seconds of 1.0kg is applied to each terminal.
8	可焊性试验	焊锡温度 255±5℃,浸润时间为 3±0.5s, 试验后目测产品情况
	Solder ability Test	Lead terminals are immersed in rosin for 5 seconds and then immersed
		in solder bath of $255\pm5^{\circ}$ C for 3 ± 0.5 seconds.
9	回流焊测试	Temp. (°C) 4 °C/sec Max.
	Soldering Test	265°C Peak Temp.: 245°C 250°C max.
		Pre-heating Cooling by air
		180±10°C
		4°Csec Max. 90±30sec 10 sec. Max.

4.尺寸图 Dimension





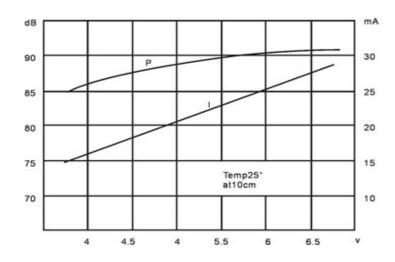




*Unit: mm; Tolerance: ±0.3mm Except Specified

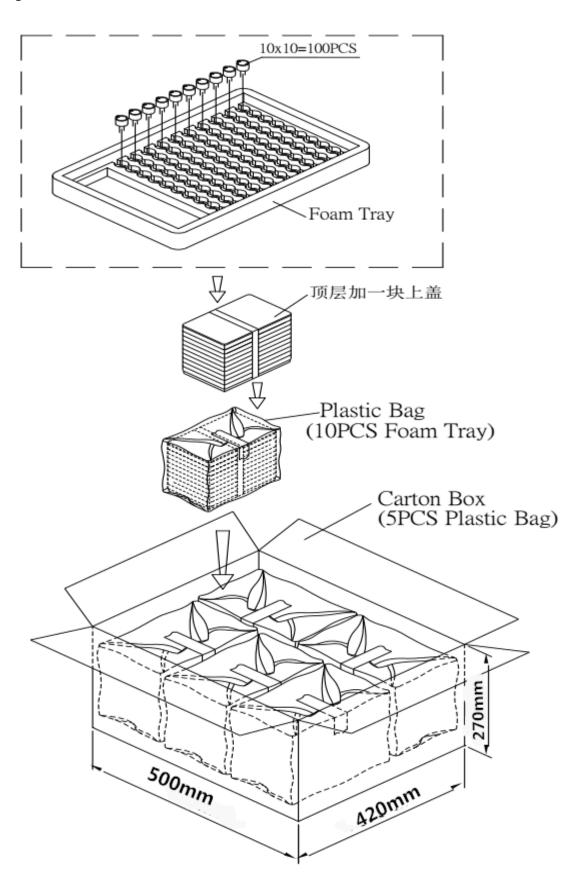
*Housing Material: Black PBT

5.频率响应/Frequency Response



5.0Vo-p 50% duty Square wave,10cm

5.包装 picking



司 JIANGSU HUAWHA E	,		