

深圳市晶科鑫实业有限公司

样品承认书

客户代码:		
物料名称:	陶瓷滤波器	
规格型号:	LT10.7MJA10红点 10.7MHz 3PIN 剪脚=3.0±0.1mm	
P N/ SJK:	LT10700MJA10	
环保属性:	☒ RoHS ☒ REACH ☒ HF ☐ PAHS ☐ 其它	
版 次:	A1 2017-7-1 初版	最小包装: 500 只/包
湿敏等级:	一级	

承 认 签 章					
供 应 商 承 认			() 公 司 承 认		
制 定	审 核	核 准	工 程 师	审 核	批 准
贺丹斌	李相同	刘惠光			
SJK 支持			盖章签署		
FAE_EMAIL			日 期		
日 期			批示： ☐ 接受 ☐ 有条件接受		
备注:					

CERAMIC FILTER

SPECIFICATION FOR CERAMIC FILTER

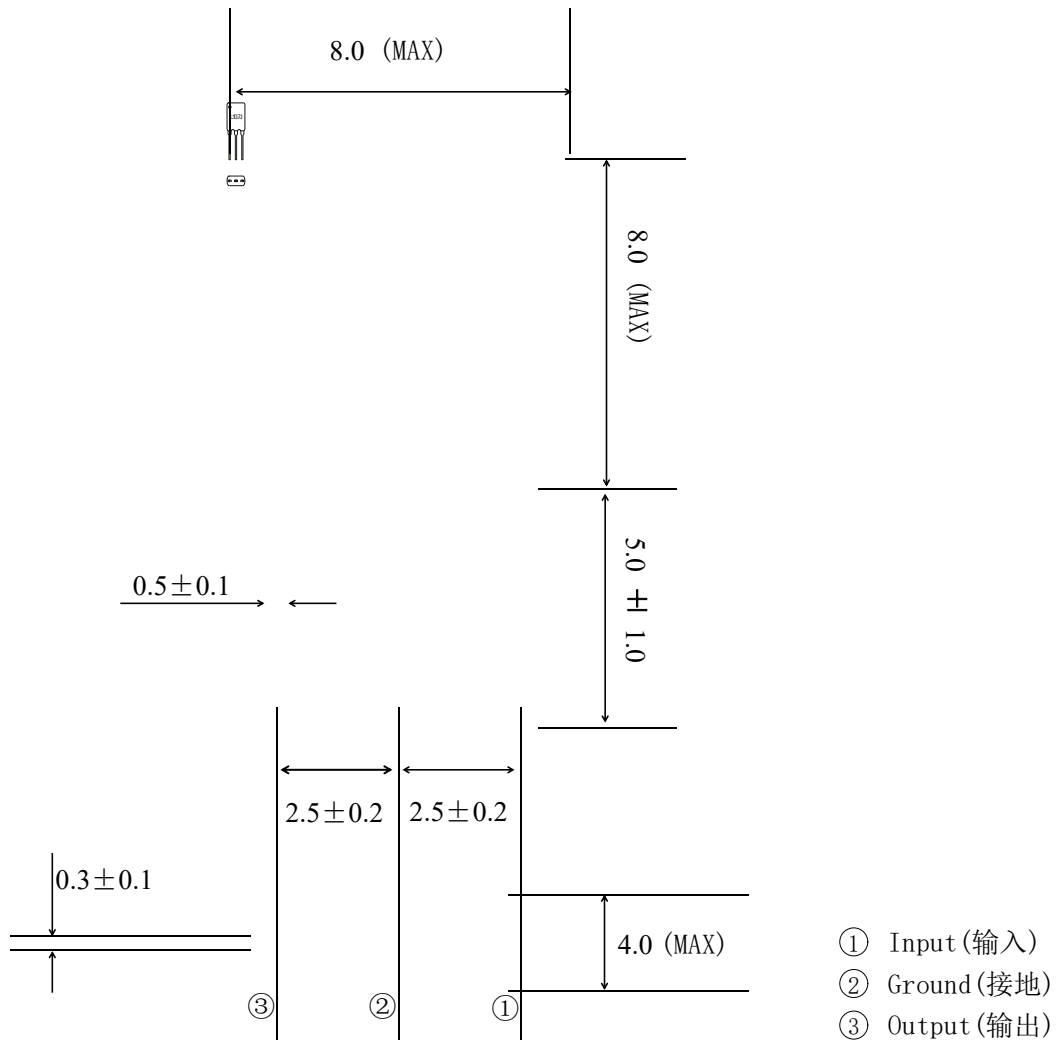


1. SCOPE (范围)

This specification is applied to the ceramics filter used for FM receiver.

(本规格书适用于 FM 收音机用陶瓷滤波器)

2. DIMENSIONS (尺寸)



Materials(材料)

Terminal(引脚)	Sn plated on Fe (铁镀锡)
Coating(涂料)	Epoxy Resin (环氧树脂)

Unit(单位): mm

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3. ELECTRICAL CHARACTERISTICS

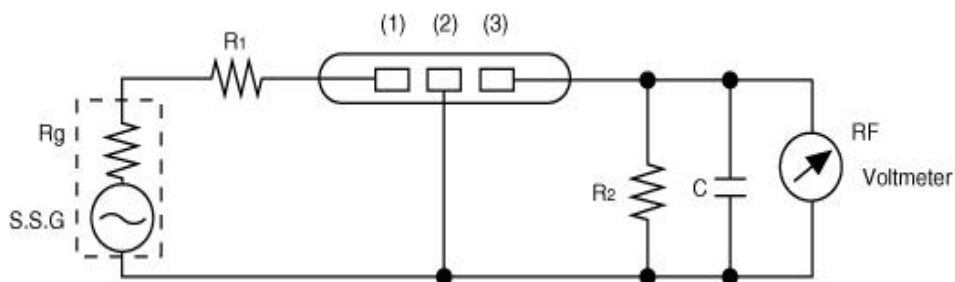
(电气性能)

	Item (项目)	Requirements (要求)
1	Center Frequency of 3 dB Bandwidth (fo) (3 dB 带宽的中心频率)	10.7MHZ ±30KHZ (Red)
2	3 dB Bandwidth (3dB 带宽)	150±40KHZ
3	20dB Bandwidth (20dB 带宽)	360Khz (max)
4	Insertion Loss (插入损耗) <i>At minimum loss point (最小损耗点)</i>	9dB (max)
5	Ripple (带内波动) <i>Within 3 dB Bandwidth (3 dB 带宽内)</i>	1.0 dB (max)
6	Spurious Response(Range:9 to 12MHz) (9 至 12MHz 阻带衰减)	30dB (min)
7	Insulation Resistance (绝缘阻抗)	100MΩ min (DC 100V)
8	Withstanding Voltage (耐电压)	DC 50V, 1min (max)
9	Storage Temp. Range (贮存温度范围)	-40℃~+85℃
10	Test Temp.&Humi.Condition (测试温、湿度条件)	+10℃~+30℃、40%~80%

4. TEST CIRCUIT

(测试电路)

Unless any necessity to measure under a standard condition(Temp:20 ± 2℃ .Humi.:65 ± 5%)is occurred.(必要时标准测量条件为温度 20± 2℃，相对湿度 65± 5%)



R1=280 Ω ± 5% R2=330 Ω ± 5% Rg=50 Ω
C=10pF

① Input (输入)
② Ground (接地)
③ Output (输出)

5. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

(物理及环境特性)

	Test Item (试验项目)	Condition of Test (试验条件)	Requirements (要求)
1	Lead Strength (引脚强度) Lead Pulling (引脚拉力) Lead Bending (引脚弯曲)	Force of 0.5kg is applied to each lead in axial direction for 10sec..(沿每个引脚轴向施加 0.5kg 力保持 10 秒钟) When force of 0.25kg is applied to each lead in axial direction.the lead shall folded up to 90° from the axial direction and folded back to the axial direction. (沿引脚轴向施加 0.25kg 力的时候把引脚折弯 90 度后再折回原形)	No mechanical damage and the measured values shall meet Table 1.(无机械损伤, 测量值满足表 1 要求)
2	Solderability (可焊性)	Lead terminals are immersed in resin for 5 seconds and then immersing in a soldering bath(235±5℃)for 5±0.5sec.(引脚在助剂内浸 5 秒后再浸入 235±5℃ 的锡炉内 5±0.5 秒)	The solder shall coat at least 90% of the surface of terminal(引脚上锡覆盖率≥90%)
3	Storage in High Temp. (高温贮存)	After being placed in a chamber with 85℃ for 100 hours and then being placed in natural condition for 1 hours, then measure.(85℃环境下存放 100 小时后取出自然存放 1 小时测试)	The measured value shall meet Table 1(测量值满足表 1 要求)
4	Storage in Low Temp. (低温贮存)	After being placed in a chamber with -25℃ for 100 hours and then being placed in natural condition for 1 hours, then measure.(-25℃环境下存放 100 小时后取出自然存放 1 小时测试)	
5	Humidity (潮湿)	After being placed in a chamber (Humi.:90~95%RH,Temp.:40±2℃) for 100 hours and then being placed in natural condition for 1 hours, then measure. (温度 40±2℃ ;湿度 90~95%的环境下存放 100 小时后取出自然存放 1 小时测试)	

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6	Thermal Shock (热冲击)	After temperature cycling of -55°C(30 minutes)to +85°C(30 minutes)was performed 5 times,Resonator shall be measured after being placed in natural condition for 1 hour(-55°C下 30 分钟到+85°C下 30 分钟循环 5 次后自然存放 1 小时测量)	
7	Resistance to soldering Heat (耐焊接热)	Lead terminals are immersed up to 2.0 mm from the root of terminals in solder bath of 265±5°C for 10± 1seconds, Resonator shall be measured after being placed in natural condition for 1 hour.(引脚距根部 2mm 以下浸入 265±5°C的锡炉中 10±1 秒取出自然 存放 1 小时测量)	

续上表:

8	Random Drop (自由跌落)	Filter shall be measured after 3 times random dropping from the hight of 1 m to concrete floor.(滤 波器从 1 米高向水泥地板自由跌落 3 次后测量)	The measured value shall meet Table 1(测量值满 足表 1 要求)
9	Vibration (振动)	Filter shall be measured after being applied vibration as below:(滤波器做如下振动后测量) Vibration Freq.(振动频率): 10 Hz to 55 Hz Amplitude(幅度): 1.5mm Directions(方向): 3 axial directions (三轴向) Time(时间): 1 hour/each direction (1 小时/向)	
10	Temperature characteristics (温度特性)	Filter shall be measured within -25°C to +85°C temperature range. Temp. coefficient of Fo (滤波器 在-25°C至+85°C温度范围内测量 Fo 的温度系数)	≤±100ppm/°C Reference temp. (参考温度): +20°C

Table 1(表 1)

Item (项目)	Limit Value (限定值)
Center Frequency (中心频率)	±30kHz max
3 dB Bandwidth (3dB 带宽)	±40kHz max
20dB Bandwidth (20dB 带宽)	±30kHz max

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Insertion Loss (插入损耗)	± 2.0 dB max
Spurious Response (阻带衰耗)	30 dB min

※ Note: The limits in the above table are referenced to the initial measurements.
(上表中的限定值参照初始测量值)

6. NOTICE

(注意)

1. Do not use this product with bend. The component may be damaged if excess Mechanical stress is applied to it mounted on the printed circuit board. (本产品不能折弯使用，在电路板安装时使用过大的机械压力可能造成产品损坏。)
2. This specification limits the quality of the component as a single Unit Please make sure that the component is evaluated and confirmed the drawing When it is mounted to your product. (本规格书只规定了部件本身的品质，应用于您的产品时请确认图纸该产品是否适用。)