

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。)

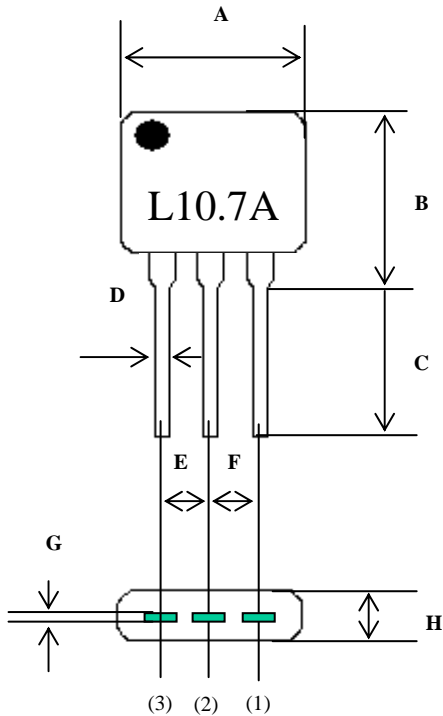
2. MODEL NAME

(产品名称)

Part Name (型号)	Customer's Part Number (客户型号)	Drawing No. (图号)
LT10.7MA5		GG-014

3. DIMENSIONS

(尺寸)



UNIT : MM

A	8.0MAX
B	8.0MAX
C	5.0±1.0
D	0.6±0.1
E F	2.5±0.3
G	0.25±0.05
H	4.0MAX

(1). INPUT

(2). GROUND

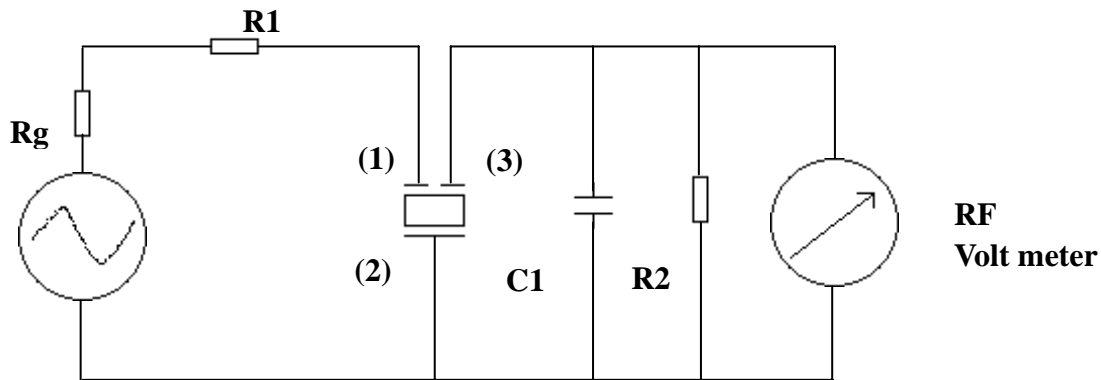
(3). OUTPUT

4. TEST CIRCUIT

(测试电路)

Parts shall be measured under a condition (Temp.:3~35°C. Hum.:45~85%) unless any necessity to measure under a standard condition (Temp.:20 ± 2°C. Humi.:65 ± 5%) is occurred.

(测量条件为温度 3~35°C，相对湿度 45~85%，必要时标准测量条件为温度 20 ± 2°C，相对湿度 65 ± 5%)



$R_1=270\ \Omega \pm 5\%$ $R_2=330\ \Omega \pm 5\%$ $R_g=50\ \Omega$

$C_1=10\text{Pf}$ (Including stray capacitance and input capacitance of RF Voltmeter)

(1). Input (2). Ground (3). Output

(包含分布电容和射频电压表的输入电容)

5. ELECTRICAL CHARACTERISTICS

(电气性能)

	Item (项目)	Requirements (要求)
5-1	Center Frequency (fo) (中心频率)	A:10.7MHZ \pm 30KHZ (Red) Note: Center of 3 dB Bandwidth
5-2	3 dB Bandwidth (3dB 带宽)	280 \pm 50KHZ
5-3	20dB Bandwidth (20dB 带宽)	650Khz max
5-4	Insertion Loss (插入损耗)	6.0 max (at minimum loss point)
5-5	Ripple (带内波动)	1.0 dB max (within 3 dB Bandwidth)
5-6	spurious response (阻带衰耗)	30 dB min (Range: 9Mhz to Fo)
5-7	Withstanding Voltage (耐电压)	DC 50V, 1 min
5-8	Insulation Resistance (绝缘阻抗)	100M Ω min. (DC 100V)
5-9	input/output Impedance (输入输出阻抗)	330 Ω

6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

(物理及环境特性)

(试验项目)	Test Item	Condition of Test (试验条件)	Requirements (要求)
6-1	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. (轴向加 0.5KG 拉力) 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. (轴向加 0.25KG 拉力时, 引脚折弯 90° 并返回。)	No mechanical damage and the measured value shall meet Item 5 (无机械损伤, 测量值满足第 5 款要求.)
6-2	Solderability (可焊性)	The terminals of the filter shall be immersion in a soldering bath(230±5°C) for 5±0.5 sec (refer to MIL-STD-202E-208C) (端子应浸没在 (230±5°C) 锡池内 5±0.5 秒。)	The solder shall for coat at least 90% of the terminal. (端子表面 90% 被浸润)
6-3	Vibration (振动)	Filter shall be measured after being applied vibration as below (在下面条件下振动后测试) Vibration Freq: 600 to 3,300 r.p.m. (振动频率) Amplitude : 1.5 mm (幅度) Directions : 3 axial directions (方向) (3 轴向) Time : 1 hour/each direction (时间) (1 小时/各方向)	The measured value shall meet Table1 (测量值满足表 1)
6-4	Random Drop (任意跌落)	Filter shall be measured after 3 times random dropping from the hight of 1 m. concrete floor. (3 次 1M 高度跌落到水泥地板后测试)	
6-5	Resistance to soldering Heat (耐焊接热)	Filter immersing the terminals up to 2mm to filter's body in soldering bath (350±5°C)for 3±0.5 sec., filter shall be measure after being placed in natural condition for 1 hour.	

6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (续上页)

(物理及环境特性)

	Test Item (试验项目)	Condition of Test (试验条件)	Requirements (要求)
6-6	Temperature characteristics (温度特性)	Filter shall be measured within -20°C to 80°C temperature range. *Temperature coefficient of f0 (在-20°C至 80°C范围内测量) * F0 的温度漂移	Ref. to value of + 20°C :± 50ppm/°C (参考+ 20°C时的值 :± 50ppm°C)
6-7	Humidity (湿度)	After being placed in a chamber (Humi, :90-95% RH Temp.:40 ± 2°C) for 1,000 hours filter shall be measured after placed in natural condition for 1 hour. (相对湿度 90-95% 温度 40 ± 2°C 容器中放置 1000 小时, 自然条件放置 1 小时后测试。)	
6-8	Life Test (High temperature) (寿命试验) (高温)	After being placed in a chamber 80°C for 1,000 hours ,filter shall be measured after being placed in natural condition for 1 hour. (温度 80°C 容器中放置 1000 小时, 自然条件放置 1 小时后测试。)	
6-9	Life Test (Low temperature) (寿命试验) (低温)	After being placed in a chamber(Temp:-20°C) for 1,000 hours, filter shall be measured placed in natural condition for 1 hour (温度-20°C 容器中放置 1000 小时, 自然条件放置 1 小时后测试。)	The measured value shall meet Table 1. (测量值应满足表 1)
6-10	Thermal Shock (温度冲击)	After temperature cycling of -10°C(30 minutes) to +85°C(30 minutes) was performed 5 times filter shall be measured after being placed in natural condition for 1 hour. (温度-10°C (30 分钟) 至+85°C (30 分钟) 循环 5 次, 自然条件放置 1 小时后测试。)	

6. PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS (续上页)

(物理及环境特性)

Table 1

(表 1)

Item (项目)	Limit Value (极限值)
※ Center Frequency (中心频率)	± 30 kHz max
※ 3 dB Bandwidth (3dB 带宽)	± 20 kHz max
※ 20 dB Bandwidth (20dB 带宽)	± 30 kHz max
※ Insertion Loss (插入损耗)	± 2 dB max
Spurious Response	

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

7. NOTICE

(注意)

7.1 . 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.

(部件不能折弯使用。在电路板安装时使用过大的力，部件可能损坏)

7.2 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质量。应用于您的产品时。请确认图纸该部件是否等效)