

LGE-JV10782-2006

SPECIFICATION

OF PRODUCTS

CUSTOMER	:	
PRODUCT NAME	L:	CERAMIC DISCRIMINATOR
PART NUMBER	:	JTCV10.7MG82

SHENZHEN LUGUANG ELECTRONIC TECHNOLOGY CO.,LTD

Add: 30c&d 7 dong, wei peng gardan, zhen zhong road, fu tian distinct,

shen zhen, china

TEL:+86+755-33341901 33341902 33341903

FAX:+86+755-33341906 33341908

Http://www.luguang.cn E-mail:Lge@luguang.cn

Approved by	Checked by	Drawn by

1 SCOPE

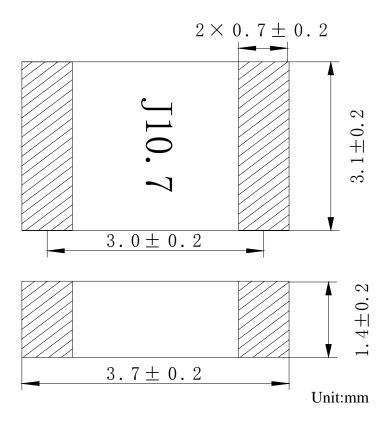
This specification is applied to the ceramics discriminator used with the type JTCV10.7MG82 for FM receiver. Please contact us before using any of the products in the applications not described above.

2 PART NO.

PART	ΓNUMBER	CUSTOMER PART NO	SPECIFICATION NO
JTCV	V10.7MG82		

3 OUTLINE DRAWING:

- 3.1 Appearance: No visible damage and dirt.
- 3.2 Dimensions:





4 ELECTRICAL SPECIFICATIONS AND RATING

4.2 RATING

Item	Requirements
Temp. Coefficient of Frequency (ppm/°C) max	± 100 (Center Frequency drift, -10°C \sim +70°C)
Insulation Resistance Ri ,(M Ω)min	100M Ω (D.C. 10V)
Withstanding Voltage	50VDC, 1min
Operating Temperature (°C)	<i>-</i> 20∼+80
Storage Temperature (°C)	-40∼+85

4.1 ELECTRICAL SPECIFICATIONS

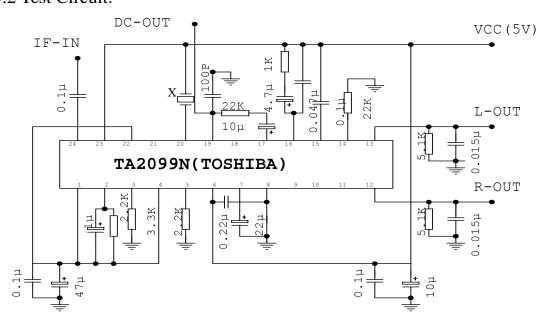
Item	Requirements	
Center Frequency fo	A: 10.700MHz±30KHz(Red)	
Recovered Audio Voltage (at fo) (mV) min	90	
Distortion (at fo) (%) max	1.0	
Recovered Audio 3dB Bandwidth (kHz) min	300	

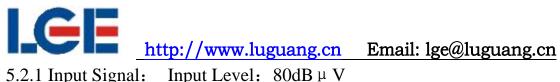
5 TEST

5.1 Test Conditions

Parts shall be measured under a condition (Temp. : $20\pm15~^{\circ}\text{C}$,Humidity : $65\pm20\%$ R.H.) unless the standard condition(Temp.: $25\pm2~^{\circ}\text{C}$,Humidity : $65\pm5\%$ R.H.) is regulated to measure.

5.2 Test Circuit:





5.2.1 Input Signal: Input Level: $80dB \mu V$

Modulation Frequency: 1000Hz Frequency Deviation: $\pm 22.5 \text{kHz}$

- 5.2.2 Center Frequency(fo): Center frequency is measured under the condition that modulated and 80dB µ V input signal (center) is supplied and varied its frequency. It is defined as the frequency at that D.C.output voltage shall correspond to that for 0dB \(\mu \) V input signal.
- 5.2.3 Recovered Audio Voltage: It is defined as the recovered audio voltage at center frequency(fo).
- 5.2.4 Distortion: It is defined as the distortion at center frequency.
- 5.2.5 Recovered Audio 3dB Bandwidth: It is defined as the difference between the two frequencies where the recovered audio voltage 3dB from the level of center frequency.

6 PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

No.	Item	Condition of Test	Performance Requirements
6.1	Humidity	Keep the discriminator at $40 ^{\circ}\text{C} \pm 2 ^{\circ}\text{C}$ and $90\% \sim 95\%$ RH for $96\text{h} \pm 4$ h. Then release the discriminator into the room condition for 1h prior to the measurement.	It shall fulfill the specifications in Table 1
6.2	High Temperature Exposure	Subject the discriminator to 80°C±5°C for 96h±4 h. Then release the discriminator into the room conditions for 1h prior to the measurement.	It shall fulfill the specifications in Table 1
6.3	Low Temperature Exposure	Subject the discriminator to -20°C±5°C for 96h±4 h. Then release the discriminator into the room conditions for 1h prior to the measurement.	It shall fulfill the specifications in Table 1
6.4	Temperature Cycling	Subject the discriminator to -40 °C for 30 min. followed by a high temperature of 85 °C for 30 min. cycling shall be repeated 5 times with a transfer time of 15 s. At the room temperature for 1h prior to the measurement.	It shall fulfill the specifications in Table 1
6.5	Vibration	Subject the discriminator to vibration for 2 h each in x, y and z axis with the amplitude of 1.5mm, the frequency shall be varied uniformly between the limits of 10 Hz.~55Hz.	It shall fulfill the specifications in Table 1

(To be continued)



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6 PHYSICAL AND ENVIRONMENTAL CHARACTERISTICS

6.6	Mechanical Shock	Drop the discriminator wooden floor from the	No visible damage and it shall fulfill the specifications in Table 1	
6.7	Resistance to Soldering Heat	Passed through the refl following condition and temperature for 1 hour Temperature at the surface of the substrate Preheat 150°C±5°C Peak 240°C±5°C	It shall fulfill the specifications in Table 1	
6.8	Solderability	Dipped in 230°C±5°C s with rosin flux (25wt)	More than 95% of the terminal surface of the discriminator shall be covered with fresh solder.	
6.9	Board Bending	Mount a glass-epoxy be thickness=1.6mm),then displacement and kee followingfigure)		Mechanical damage such as breaks shall not occur.

TABLE 1SPECIFICATION AFTER TEST ABOUT CHARACTERISTICS

Item	Specification after test		
Center Frequency drift max.	$\pm 30 \mathrm{kHz}$		
Recovered Audio Voltage drift max.	±2dB		
Note: The limits in the above table are referenced to the initial measurements.			

7 PACKAGE

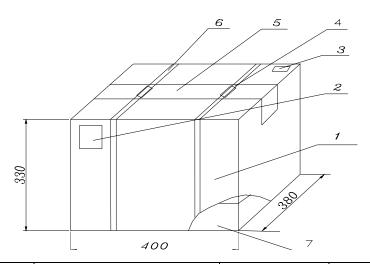
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To protect the products in storage and transportation, it is necessary to pack them(outer and inner package). On paper pack, the following requirements are requested.

7.1 Dimensions and Mark

At the end of package, the warning (moisture proof, upward put) should be stick to it.

7.2 Dimensions and Mark (see below)



NO.	Name	Quantity	Notes
1	Package	1	
2	Certificate of approval	1	
3	Label	1	
4	Tying	2	
5	Adhesive tape	1.2m	
6	Belt	2.9m	
7	Inner Box	12	

7.3 Section of package

Package is made of corrugated paper with thickness of 0.8cm.Package has 12 inner boxes, each box has 1 reel(each reel for plastic bag)



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7.4 Quantity of package

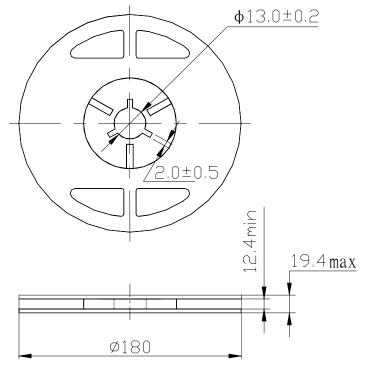
Per plastic reel 1000 pieces of piezoelectric ceramic part

Per inner box 5 reels

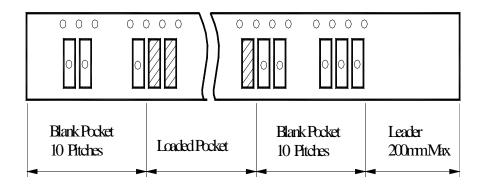
Per package 12 inner boxes

(60000 pieces of piezoelectric ceramic part)

7.5 Reel



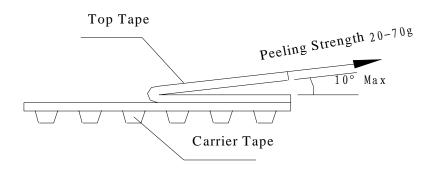
7.6 Packing Method Sketch Map





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7.7 Test Condition Of Peeling Strength



8 OTHER

8.1 Caution of use

- 8.1.1 Do not use this product with bend. Please don't apply excess mechanical stress to the component and terminals at soldering.
- 8.1.2 The component may be damaged when an excess stress will be applied.
- 8.1.3 This specification mentions the quality of the component as a single unit. Please insure the component is thoroughly evaluated in your application circuit.

8.2 Notice

- 8.2.1 Please return one of this specification after your signature of acceptance.
- 8.2.2 When something gets doubtful with this specifications, we shall jointly work to get an agreement.