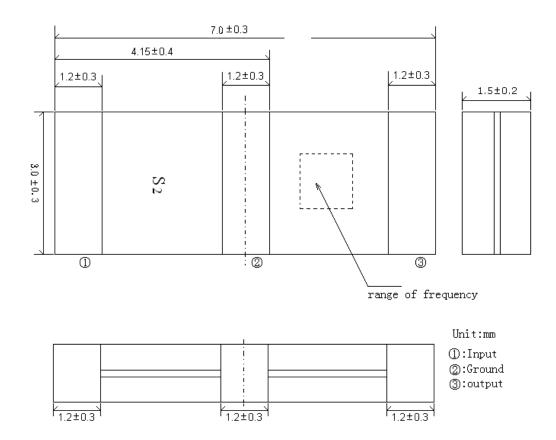
# http://www.luguang.cn Email: lge@luguang.cn

### 1. Features and Applications

The LTCA10.7MS2 filters are small,high performance and very thin(1.5mm) chip devides consisting of 2 ceramic elements for communication equipment. They are designed on MgTiO<sub>3</sub> ceramic cap package. The filters exhibit flat GDT characteristic in pass band. The filters are recommended for digital communication applications and are perfect in hand held cellular phines, pocket cordless phones, etc.

#### 2. Appearances and Dimendions

Appdarances: smooth surface and clear mark. No visible damage and dirt. Dimensions: According to Figure 1.



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#### **3.** Electrical Characteristics

Items	Requirements		
	hax. B:10.670 MHz± 30kHz max.		
	nax. D;10.640 MHz $\pm$ 30kHz max		
The center point of 3db band width is defined as the center frequency			
and identified by the letters:A,B,C,D or E			
	230 ±50kHz		
th	570kHz max		
fn)	6.0dB		
dB Bandwidth)	1.0dB max		
nse(9MHz-12MHz)	30dB min		
ipedance	330 Ω		
	A:10.700MHz± 30kHz m C;10.730 MHz± 30kHz m E;10.760 MHz± 30kHz m The center point of 3db ba and identified by the th fn) dB Bandwidth) nse(9MHz-12MHz)		

#### 4. Rating

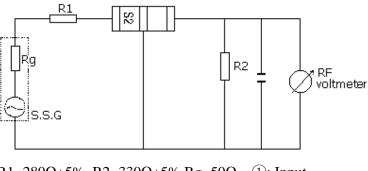
8	Items	Spec
4.1	Withstanding Voltage	DC 50v 1 minutes
4.2	Insulation Resistance	100M Ω min.(DC 10V)
4.3	Operating temperature range	-25~+85℃
4.4	Storage temperature range	-40~+85℃

#### 5. Measuring method

Measuring Condition

Parts shall be measured under a cndition (Temperature: $25\pm3$ °C,Humidity; $65\pm5$ % R.H.)unless the standard condition(Temperature: $20\pm15$ °C,Humidity; $65\pm20$ % R.H) is regulated to measure.

Measuring circuit



 $R1=280\Omega\pm5\%$ ,  $R2=330\Omega\pm5\%$ ,  $Rg=50\Omega$ (1): InputC2=10Pf(Including stray capacitance(2): Groundand capacitance of RF Voltmeter)(3):Output

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#### 6. Reliability Specifications

0.	Reliability Specif	lications	
	Item	Test Condition	Spec
6.1	LowTemp	Stored in _40±3°C for 96 hours, and left at room	Meet Table 1
	Storage	temp.for 1 hour before measurement.	Weet Table 1
6.2	High Temp	Stored in 85±2°C for 96 hours, and left at room	Meet Table 1
	Storage	temp.for 1 hour before measurement.	Weet Table 1
6.3		Stored at40±2,in90~95 % R.H.for96 hours ,and left	
	Humidity Test	at room temp.for 1 hour before measurement.	Meet Table 1
<i></i>			
6.4		After temp.cycling of $_40^{\circ}$ C (30minutes) to +85 °C	
	Thermal Shock	(30minutes) was performed 5 times, filter shall be	Meet Table 1
		measured after being placed in natural condition for 1 hour.	
6.5	Soldering Test	Passed through the reflow oven under the following	Meet Table 1
		condition for 2 times, and left at room temp. for 24	
		hours before measurement.	
		Temp. at the surface Time	
		Of the substeate	
		Preheat $150\pm5^{\circ}$ C $60\sim100$ sec	
		Peak $235\pm5^{\circ}$ CLess than 10 sec	
6.6	Solderability	Dipped in $35\pm5^{\circ}$ solder bath for $3\pm0.5^{\circ}$	The terminals
	-	Seconds with rosin flrx	Shall be at least95
			% covered by
			solder
6.7	Drop test	Free drop to the wood plate from the height of 70	Meet Table 1
		cm for 3 times.	
6.8	Vibration	Apply the vibration of weep frequency 10 to Meet Table 1	
		55Hz/minutes, amplitude 1.5mm, duration 2 hours	
		in each direction of 3 planes.	
6.9	Board Bending	Mount on a glass-epoxy	Mechanical
		board(width=50mm,thickness=1.6mm)then bend it	damage such as
		to 1mm displacement(velocity 1mm/sec) and keep	break shall not
		it for 5 seconds	occur
		PRESS	
		15,12	
		PRESS HEAD	
		RID	
		R340 PLL.T. Cd	
		8	
		45±2 45±2	

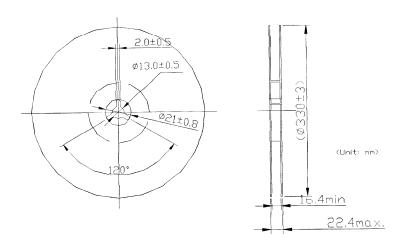


Tablet Characteristics change mint in renability test	
Characteristics	Change Iimit
Insertion Loss	±2dB max
3db bandwidth	±25kHz max
20dB Bandwidth	±60kHz max

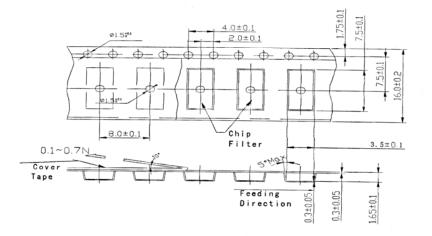
#### Tablel Characteristics change limit in reliability test

#### 7.Packaging

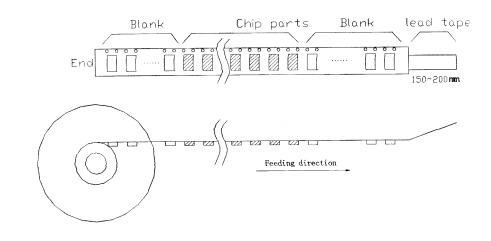
7.1 Reel Dimensions



#### 7.2 Taping Dimensions



http://www.luguang.cn Email: lge@luguang.cn 7.3 Tape Characteristics



- 7.4 Reel Quantity:4000pcs/reel or 1000pcs/reel
- 7.5 Every reel is vacuum packed.(at 300 Torr of vacuum rate).

#### 8. Notices

- 8.1 Please avoid cleaning this chip ceramic filter.
- 8.2 Please contact us if you want to use the product in specifial occasion.