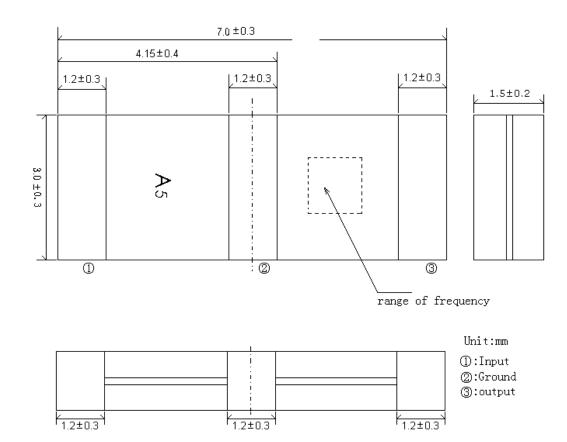


1. Features and Applications

The LTCA10.7MA5 filters are small,high performance and very thin(1.5mm) chip devides consisting of 2 ceramic elements for communication equipment. They are designed on MgTiO₃ ceramic cap package. The filers 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.





3. Electrical Characteristics

Items		Requirements		
Center Frequency(f ₀)	A:10.700MHz± 30kHz m	nax. B:10.670 MHz± 30kHz max.		
	C;10.730 MHz± 30kHz r	max. D;10.640 MHz± 30kHz max		
	E;10.760 MHz± 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			
3dB Bandwidth		280 ±50kHz		
20 dB Bandwidth		650kHz max		
Insertion loss(at fn)		6.0dB		
Ripple(within 3dB Bandwidth)		1.0dB max		
Spurious Response(9MHz-12MHz)		30dB min		
Input/Output Impedance		330 Ω		

4. Rating

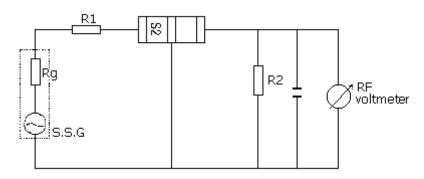
6	Items	Spec
4.1	Withstanding Voltage	DC 50v 1 minutes
4.2	Insulation Resistance	100M Ω min.(DC 10V)
4.3	Operating temperature range -25 _∼ +85 °C	
4.4	Storage temperature range	-40~+85℃

5. Measuring method

Measuring Condition

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

Measuring circuit



①: Input

 $R1=280\Omega\pm5\%$, $R2=330\Omega\pm5\%$, $Rg=50\Omega$

C2=10Pf(Including stray capacitance ②: Ground

and capacitance of RF Voltmeter) ③:Output

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6. Reliability Specifications

	Item	Test Condition	Spec	
6.1	LowTemp	Stored in _40±3°C for 96 hours, and left at room	-	
	Storage	temp.for 1 hour before measurement.	Meet Table 1	
6.2	High Temp	Stored in 85±2°C for 96 hours, and left at room	Most Table 1	
	Storage	temp.for 1 hour before measurement.	Meet 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	
6.4		After temp.cycling of _40°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		
0.0	Soldering rest	condition for 2 times, and left at room temp. for 24	Wilder Tueste T	
		hours before measurement.		
		Temp. at the surface Time		
		Of the substeate		
		Preheat 150±5℃ 60~100sec		
		Peak 235±5°C Less than 10 sec		
6.6	Solderability	Dipped in 35±5°C solder bath for 3±0.5 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		
	D 1D 1'	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 break shall not	
		to 1mm displacement(velocity 1mm/sec) and keep it for 5 seconds		
		It for 3 seconds	occur	
		15,12		
		PRESS HEAD		
		R340 DU.T.		
		33		
		45±2 45±2		
		Ø5 SUPPORT BAR		

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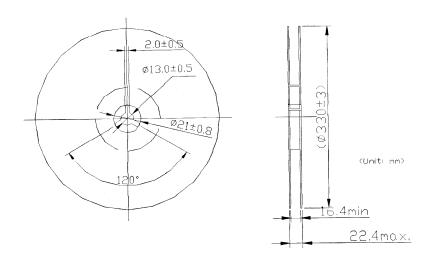


Tablel Characteristics change limit in reliability test

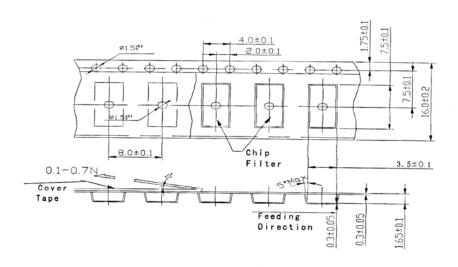
Characteristics	Change Iimit
Insertion Loss	±2dB max
3db bandwidth	±25kHz max
20dB Bandwidth	±60kHz max

7. Packaging

7.1 Reel Dimensions

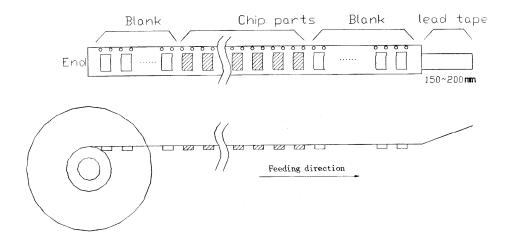


7.2 Taping Dimensions





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 specital occasion.