

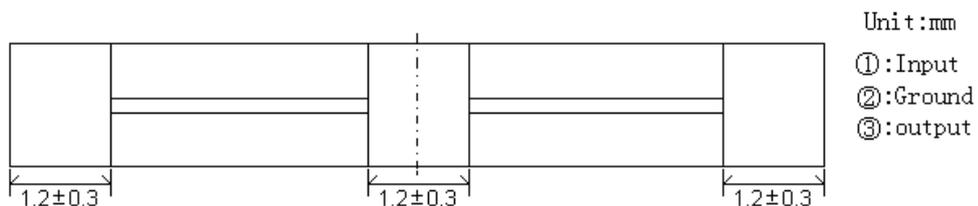
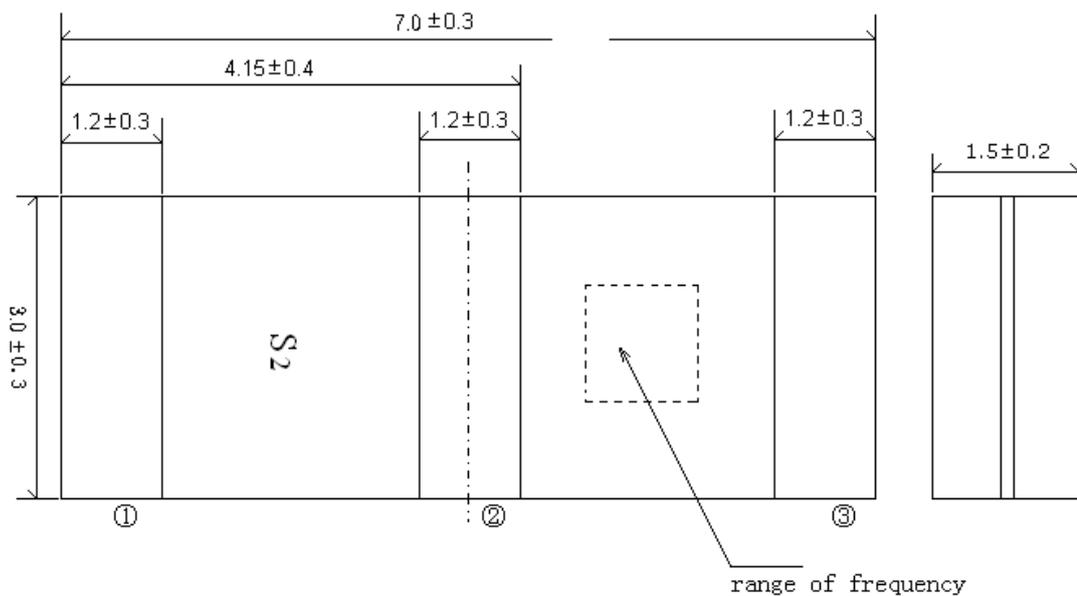
## 1. Features and Applications

The LTCA10.7MS2 filters are small, high performance and very thin (1.5mm) chip devices 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 phones, pocket cordless phones, etc.

## 2. Appearances and Dimendions

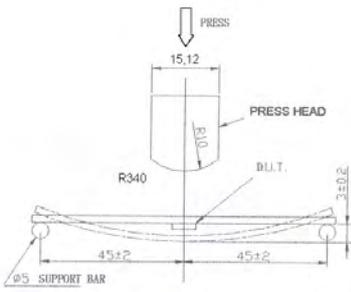
Appdarances: smooth surface and clear mark. No visible damage and dirt.

Dimensions: According to Figure 1.



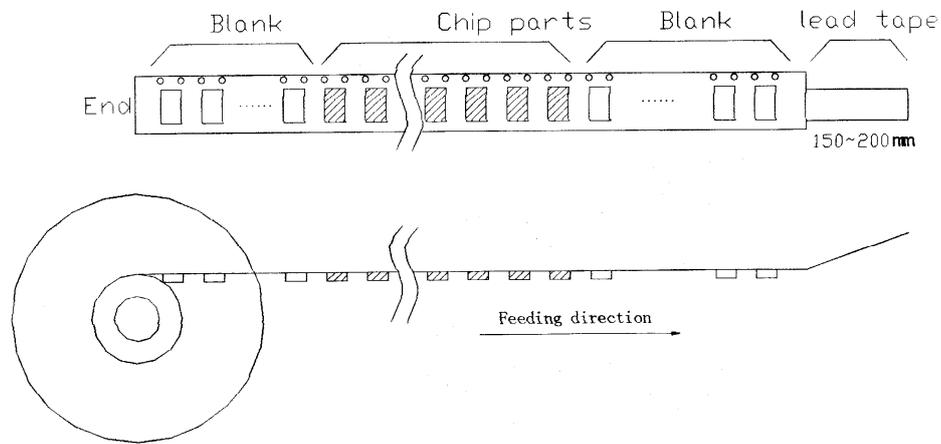


### 6. Reliability Specifications

	Item	Test Condition	Spec						
6.1	LowTemp Storage	Stored in $-40\pm 3^{\circ}\text{C}$ for 96 hours, and left at room temp. for 1 hour before measurement.	Meet Table 1						
6.2	High Temp Storage	Stored in $85\pm 2^{\circ}\text{C}$ for 96 hours, and left at room temp. for 1 hour before measurement.	Meet Table 1						
6.3	Humidity Test	Stored at $40\pm 2$ , in $90\sim 95\%$ R.H. for 96 hours, and left at room temp. for 1 hour before measurement.	Meet Table 1						
6.4	Thermal Shock	After temp. cycling of $-40^{\circ}\text{C}$ (30 minutes) to $+85^{\circ}\text{C}$ (30 minutes) was performed 5 times, filter shall be measured after being placed in natural condition for 1 hour.	Meet Table 1						
6.5	Soldering Test	Passed through the reflow oven under the following condition for 2 times, and left at room temp. for 24 hours before measurement. <table border="1" data-bbox="528 947 1107 1122" style="margin-left: auto; margin-right: auto;"> <thead> <tr> <th>Temp. at the surface Of the substate</th> <th>Time</th> </tr> </thead> <tbody> <tr> <td>Preheat <math>150\pm 5^{\circ}\text{C}</math></td> <td>60~100sec</td> </tr> <tr> <td>Peak <math>235\pm 5^{\circ}\text{C}</math></td> <td>Less than 10 sec</td> </tr> </tbody> </table>	Temp. at the surface Of the substate	Time	Preheat $150\pm 5^{\circ}\text{C}$	60~100sec	Peak $235\pm 5^{\circ}\text{C}$	Less than 10 sec	Meet Table 1
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Preheat $150\pm 5^{\circ}\text{C}$	60~100sec								
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6.6	Solderability	Dipped in $35\pm 5^{\circ}\text{C}$ solder bath for $3\pm 0.5$ Seconds with rosin flrx	The terminals Shall be at least 95% covered by solder						
6.7	Drop test	Free drop to the wood plate from the height of 70 cm for 3 times.	Meet Table 1						
6.8	Vibration	Apply the vibration of weep frequency 10 to 55Hz/minutes, amplitude 1.5mm, duration 2 hours in each direction of 3 planes.	Meet Table 1						
6.9	Board Bending	Mount on a glass-epoxy board (width=50mm, thickness=1.6mm) then bend it to 1mm displacement (velocity 1mm/sec) and keep it for 5 seconds <div style="text-align: center;">  </div>	Mechanical damage such as break shall not occur						



### 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 special occasion.