

SPECIFICATION

1. Application:

This Specification is applied to LT10.7MHY Ceramic Filter.

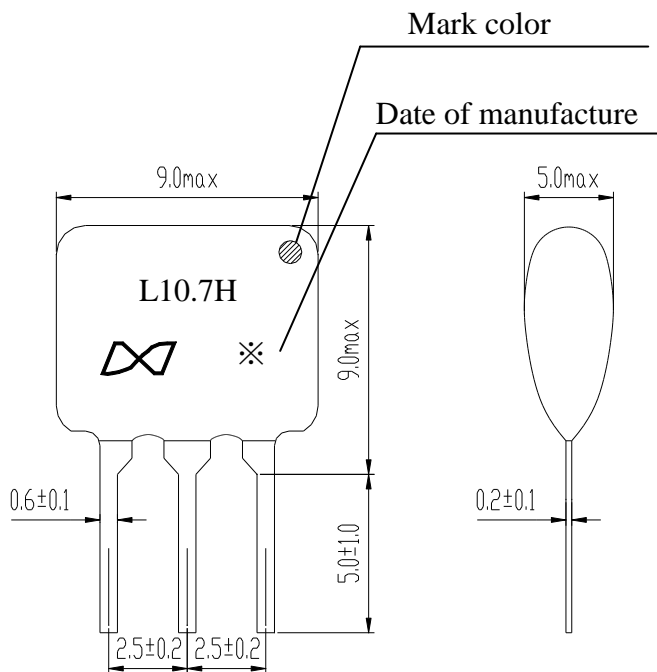
2. Model Name:

Model name	Customer's part number	Customer's spec. No.
LT10.7MHY-A		

3. Outside dimension:

3.1 Appearance: The mark is clear, the appearance is smooth, non-dirty & non-damage.

3.2 Outside dimension:



3.3 Constructure: single resin package.

4. Electrical characteristics:

No.	Item	Characteristics
4-1	Center frequency (kHz)	10700±30
4-2	-3dB bandwidth (kHz)	110 ± 30
4-3	Insertion loss (dB)	7 ± 2

4-4	-20dB bandwidth (kHz) max	350
4-5	Parasitic loss (dB) min (9~12MHz)	30
4-6	Insulate resistance (MΩ) min	100

5. Physical and environmental characteristics:

No.	Item	Condition	Result
5.1	Terminal Strength	Force of 1kg is applied to each lead in axial direction, keep for 5 sec. then force of 0.5kg is applied to each lead in aerial direction.the lead shall be bend 90 degree in one direction, then in the opposite direction and return to normal.	Non-evident damage.
5.2	Resistance to soldering heat	lead terminals are immersed up to 2.0mm of body in a solder bath (260±5℃),for 5±0.5sec,return to normal temp. for 24±2 hrs.	Non-evident damage, and meet table-1.
5.3	Thermal shock	Temp:-55~+85℃, 5 cycles, keep for 30 mins, return to normal temp. for 24±2 hrs.	Non-evident damage, and meet table-1.
	Vibration	vibration frequency: 10~55Hz, Amplitude: 1.5mm in 3 directions (X.Y.Z) each for 1 hr.	
	Shock	Shock:1000, times ,Va:390m/s ² ,pulse time:6ms.	
5.4	High temperature	Temp.:+85℃, keep for 16 hrs.	Non-breakthrough, or arc ,and meet table-1.
	Damp & heat (cyclic)	Trial Db, first circle.	
	Low temperature	Temp.: -55℃, keep for 2 hrs.	
	Low air pressure	Air pressure: 8.5kPa, keep for 2 hrs.	
	Damp & heat (cyclic)	Trial Db, the rest cycles, return to normal for 24±2hrs.	
5.5	Damp & heat (steady state)	Temp: 40±2℃, humidity: 90~95%, keep for 500 hrs. Return to normal temp.for 24±2hrs.	Meet table-1.
5.6	Life test	Temp.: +85℃, keep for 1000 hrs. Return to normal temp. for 24±2hrs.	Meet table-1.
5.7	Temp. Characteristics of center frequency	within -20~+80℃	Within ±0.5%.

Table 1

Test item	The value can be changed
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Center frequency	Within $\pm 30\text{kHz}$
-3dB bandwidth	Within $\pm 20\text{kHz}$
-20dB bandwidth	Within $\pm 30\text{kHz}$
Insert loss	Within $\pm 2\text{dB}$

6. Test circuit:

