

1. SCOPE

The specification is applied to the ceramic filter used for SIF unit.

2. PART NO. : LTS6.0MCB

3. ELECTRICAL CHARACTERISTICS

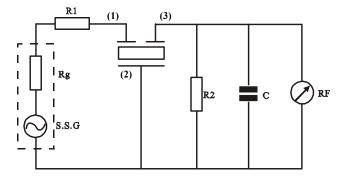
No.	Item	Requirements
3.1	Nominal Center Frequency (fn)	6.0MHz
3.2	3dB Bandwidth (from5.8MHz)	±60KHz min.
3.3	20dB Bandwidth	600KHz max.
3.4	Insertion Loss (at minimum loss point)	6.0dB max. E1
		Calculation 20 · log() 2·E2
3.5	Spurious Response	
	0.0MHz—5.8MHz	30dB min.
	5.8MHz—7.0MHz	15dB min.
	7.0MHz—10.0MHz	30dB min.
3.6	Withstanding Voltage	DC 50V, 1 min.
3.7	Insulation Resistance	100MΩ min. (DC 100V)
3.8	Operation Temperature	-20□to +80□
3.9	Input / Output Impedance	470Ω

4. MEASUREMENT

4.1 Measurement Condition

Parts shall be measured under a condition (Temp:5~35°C, Humi:45~85%) unless any necessary to measure under a standard condition (Temp.: 20±2°C. Humi: 65±5%) is occurred.

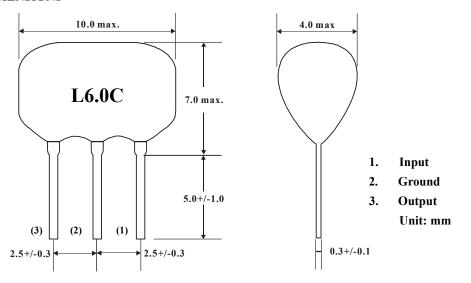
5. MEASUREMENT CIRCUIT



Rg+R1=R2=Input/Output Impedance C=10pF (Including Stray capacitance and input capacitance of RF voltmeter)



6. DIMENSIONS



7. PHYSICAL AND ENVIRONMENT CHARACTERISTICS

No.	Item	Condition of Test	Performance
			Requirement
7.1	Humidity	Subject the filter at +40±2°C and 90%-95% R.H. for	It shall fulfill the
		500 hours, filter shall be measured after being placed	specification in
		in natural condition for 1 hour.	Table 1.
7.2	High	Subject the filter to +85°C ±5°C for 500 hours, filter	It shall fulfill the
	Temperature	shall be measured after being placed in natural	specification in
	Exposure	condition for 1 hour.	Table 1.
7.3	Low	Subject the filter to -25°C ±5°C for 500 hours, filter	It shall fulfill the
	Temperature	shall be measured after being placed in natural	specification in
	Exposure	condition for 1 hour.	Table 1.
7.4	Temperature	Subject the filter to -25°C for 30 min. followed by a	It shall fulfill the
	Cycling	high temperature of +85°C for 30 min. Cycling shall	specification in
		be repeated 5 times. Filter shall be measured after	Table 1.
		being placed in natural conditions for 1 hour.	
7.5	Vibration	Subject the filter to vibration for 2 hours each in X,Y	It shall fulfill the
		and Z axis with the amplitude of 1.5mm, the frequency	specification in
		shall be varied uniformly between the limits of 10Hz-	Table 1.
		55Hz.	
7.6	Mechanical	Filter shall be measured after 3 times random	It shall fulfill the
	Shock	dropping from the height of 100cm on concrete floor	specification in
			Table 1.
7.7	Resistance to	Lead terminals are immersed up to 2 mm from filter's	It shall fulfill the
	Solder Heat	body in soldering bath of 260±5°C for 5±1 seconds and	specification in
		then filter shall be measured after being placed in	Table 1.
		natural conditions for 1 hour.	
7.8	Solder-	Lead terminals are immersed up to 2mmfrom filter's	More than 95% of
	ability	body in soldering bath of 235±5°C for 2±0.5sec.	the surface of the
			resonator
			terminal shall be
			covered with fresh
			solder.



7.9 LEAD FATIGUE

No.	Item	Condition of Test	Performance
			Requirement
7.9	Lead Fatigue		
7.9.1		Force of 5N is applied to each lead in axial direction for 10±1 sec.	The filter shall show no evidence of damage and shall fulfill all the initial
7.9.2		When force of 5N is applied to each lead in axial direction , the lead shall folded up	electric characteristics.
		90°C from the axial direction	

Table 1.

ITEM	SPECIFICATION
3dB Band Width	25KHz max.
20dB Band Width	40KHz max.
Insertion Loss	2.0dB max.

8. REVIEW OF SPECIFICATION

When something gets doubtful with this specification, we shall jointly work to get an agreement.