SPECIFICATION

1.SCOPE

This specification shall cover the characteristics of SAW filter with used for remote-control security.

2. ELECTRICAL SPECIFICATION

DC Voltage VDC	10V			
AC Voltage Vpp	10V50Hz/60Hz			
Storage temperature	-45 to +850			
RF Power Dissipation	0dBm			

Electronic Characteristics

2-1.Type frequency response



2-2.Electrical characteristics

	Characteristics	Sym	Notes	Min.	Typical	Max.	Units
Center	Absolute Frequency	Fc	1.2	417.925	418.000	418.000	M Hz
Frequency	tolerance from Nomina	l fo			+/-75		KHz
Insertion Loss		IL	1		3.5	5.0	dB
3dB Band	lwidth	BW	3 1.2		600		KHz
Rejection	At fo-21.4MHz (Image)		1	40	50		dB
	At fo-10.7 MHz (LO)			15	30		
	Ultimate				80		
Temperat	ure Operating case ten	ър. Т	c 3.4	-35		+85	C
characteri	stics Tumover temp.	Т	0	15	25	35	С
	Tumover Frequency	fo			fc+2.7		MHz
	Freq.temp.coe fficien	t FT	С		0.032		ppm/C
Frequen	cy aging		5		<+/-10		ppm/y

3. TEST CIRCUIT



4. DIMENSION



5. ENVIRONMENTAL CHARACTERISTICS

5-1 High temperature exposure

Subject the filter to +80C for 96 hours. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in table 1.

5-2 Moisture

Keep the filter at 40C and 95% rh for 96 hours. then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in table 1.

5-3 Low temperature exposure

Subject the filter to -20C for 96 hours. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall fulfill the specifications in table 1.

5-4 Temperature cycling

Subject the filter to a low temperature of -55C for 30 minutes. Following by a high temperature of +85C for 30 Minutes. Then release the filter into the room conditions for 1 to 2 hours prior to the measurement. It shall meet the specifications in table

1.

5-5 Resistance to solder heat

Dip the filter terminals no closer than 1.5mm into the solder bath at $27C \pm 10C$ for 10 ± 10 for 10\pm 10 for 10 the release the Filter into the room conditions for 1 to 2 hours. The Filter shall meet the specifications in table 1.

5-6 Mechanical shock

Drop the filter randomly onto the concrete floor from the height of 30cm 3 times. the filter shall fulfill the specifications in table 1.

5-7 Vibration

Subject the filter to the vibration for 1 hour each in x,y and z axes with the amplitude of 1.5 mm at 10 to 55 hz. The filter shall fulfill fulfill specifications in table 1.

- 5-8 Lead fatigue
 - 5-8-1 Pulling test

Weight along with the direction of lead without an shock 3 kg. The filter shall satisfy all the initial Characteristics.

5-8-2 Bending test

Lead shall be subject to withstand against 90C bending in the direction of thickness. This operation shall be done toward both direction. The filter shall show no evidence of damage and shall satisfy all the initial electrical characteristics.

6. REMARK

6.1 Static voltage

Static voltage between signal load & ground may cause deterioration & destruction of the component. Please avoid static voltage.

6.2 Ultrasonic cleaning

Ultrasonic vibration may cause deterioration & destruction of the component. Please avoid ultrasonic cleaning

6.3 Soldering

Only leads of component may be soldered. Please avoid soldering another part of component.