

SPECIFICATION

TO:STE

Model Name: SAW FILTER

PART NO: SSF480W01TO39

CUSTOMER PART NO.:

Approval sheet:

Approved	Yes
	No.
Customer's comments are welcomed here.	
Pls return this copy as a certificate of your approval by email.	
Approved By	Date: _____

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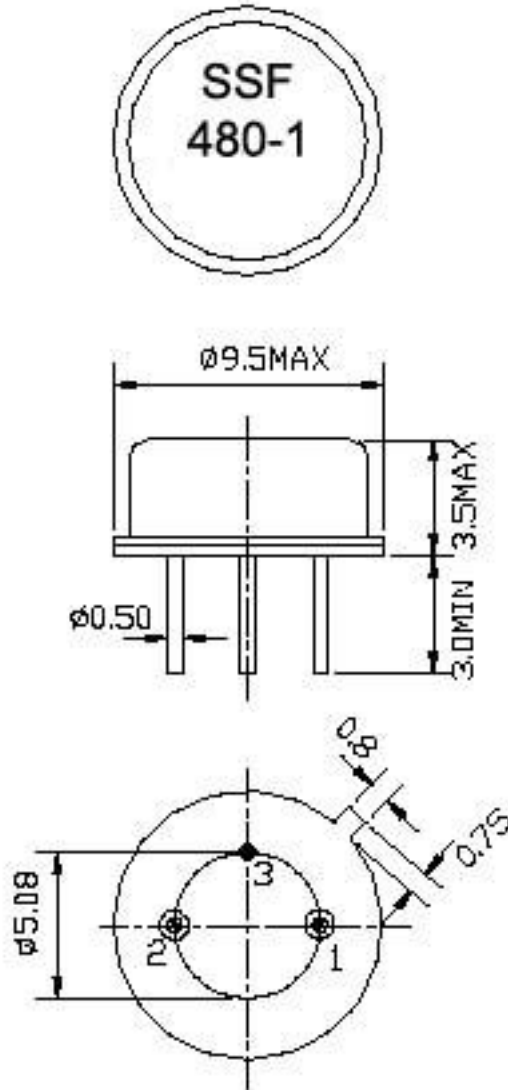
History Record

Date	Part No.	SPEC No.	Description.	Remarks.
	ISO9001:2000 ISO14001:2004	Approved by	Check by	Design by
		June-2-2003	June-2-2002	May-31-2001
Reversions	Total Page	<i>Xu gang dong</i>	<i>Liu jun</i>	<i>Wang hon</i>

1. Package Dimension

(TO-39B)

Unit: mm



NO.	Function
1	Input/Output
2	Input/Output
3	GND

2. Marking

SSF
480-1

1. Black Ink Marking
2. SSF: Manufacture's log
3. 480MHz: Center frequency
4. W01: Series code

3. Performance

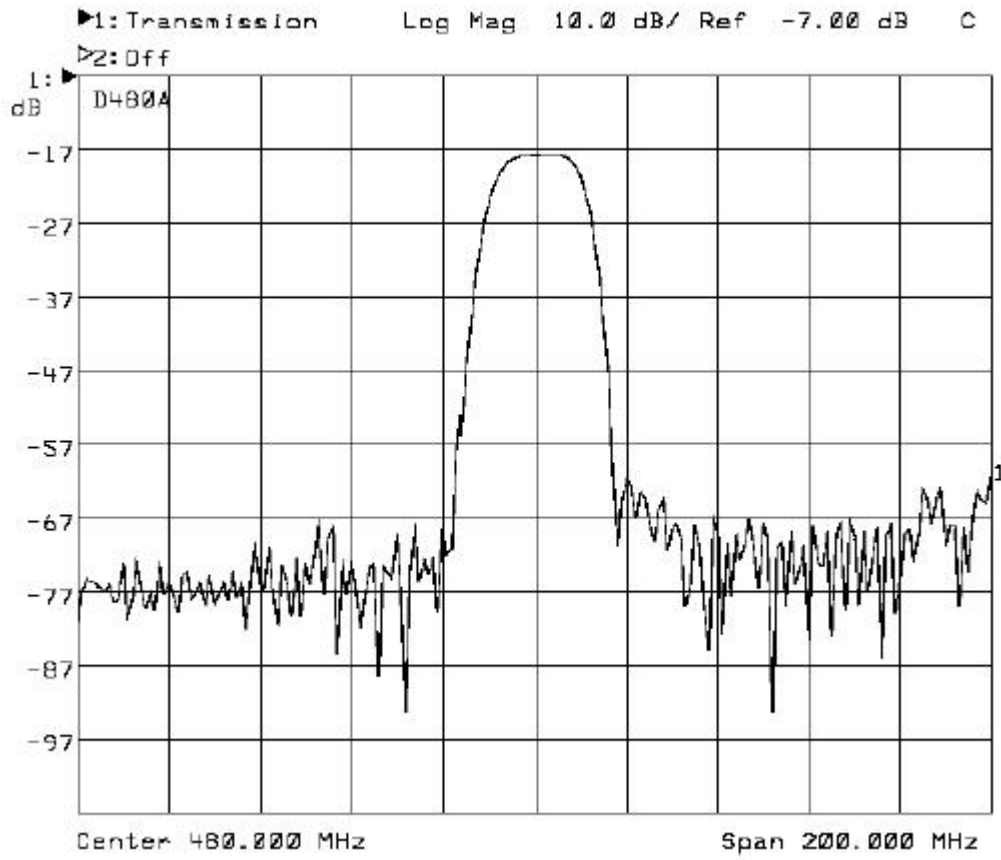
3.1 Maximum Rating

Item	Value
Operation Temperature Range	-40°C to +80°C
Storage Temperature Range	-40°C to +85°C
DC Voltage	0V (between any terminals)
AC Voltage	5V (between any terminals)

3.2 Electronic Characteristics

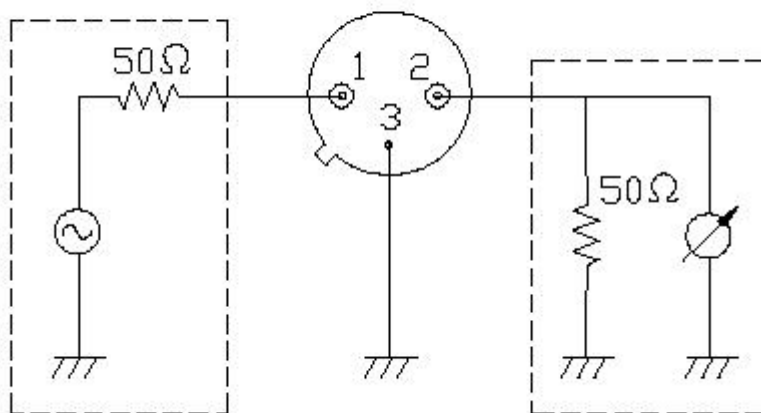
Item	Units	Minimum	Typical	Maximum
Center frequency fc	MHz	479.0	480.0	481.0
Insertion attenuation 480.0MHz	dB	--	19.5	21.0
Pass Band Width	MHz	16.60	17.60	18.60
Relative attention 471.0MHz	dB	--	3.4	5.4
489.0MHz	dB	--	3.0	5.4
Lower sidelobe 430.0~461.0MHz	dB	38.0	50.0	--
Upper sidelobe 499.0~530.0MHz	dB	38.0	45.0	--
Reflected wave signal suppression 0.13us~2.0us after main pulse	dB	40.0	46.0	--
Amplitude ripple 476.0~484.0MHz	dB	--	0.3	0.6
Group Delay 480.0MHz	ns	--	281.0	
Group Delay Ripple 471.5~488.5MHz	ns	--	11.5	18.0
Impedance at 480.0MHz Input: Zin = Rin // Cin	Ω//pF	--	70 // 3.7	--
Output: Zout = Rout // Cout	Ω//pF	--	280 // 2.5	--
DC Resistance Input: Rin	Ω	--	500	
Output: Rout	Ω	--	500	
Temperature coefficient of frequency	ppm/k	--	-86	--

3.3 Frequency Characteristics



3.4

Test Circuit



4. Reliability

4.1 Resistance to Soldering heat:

4.1.1 The components shall remain within the electrical specifications after it soldered on the 1mm-thickness PCB board and dipped in the solder at $260^{\circ}\text{C}\pm 5^{\circ}\text{C}$ for 10 ± 1 seconds.

4.1.2 The components shall remain within the electrical specifications after it soldered by electric iron, solder at $350^{\circ}\text{C}\pm 10^{\circ}\text{C}$ for 3~4 seconds, recovery time : $2\text{h}\pm 0.5\text{h}$.

4.2 Thermal Shock:

The components shall remain within the electrical specifications after being kept at the condition of heat cycle conditions: $T_A=-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$, $T_B=85^{\circ}\text{C}\pm 2^{\circ}\text{C}$, $t_1=t_2=30\text{min}$, switch time $\leq 3\text{min}$ & cycle time : 100 times, recovery time : $2\text{h}\pm 0.5\text{h}$.

4.3 The Temperature Storage:

4.3.1 High Temperature Storage: The components shall remain within the electrical specifications after being kept at the $85^{\circ}\text{C}\pm 2^{\circ}\text{C}$ for 500 hours, recovery time : $2\text{h}\pm 0.5\text{h}$.

4.3.2 Low Temperature Storage: The components shall remain within the electrical specifications after being kept at the $-40^{\circ}\text{C}\pm 3^{\circ}\text{C}$ for 500 hours, recovery time : $2\text{h}\pm 0.5\text{h}$.

4.4 Humidity test:

The components shall remain within the electrical specifications after being kept at the condition of ambient temperature $60^{\circ}\text{C}\pm 2^{\circ}\text{C}$, and 90~95% RH for 500 hours.

4.5 Drop test:

The components shall remain within the electrical specifications after random free drops 10 times from height of 1.0 meter onto concrete floor, and the specimens shall meet the electrical specifications in table 5, external visual inspection.

4.6 Solderability test:

at the condition of temperature $245^{\circ}\text{C}\pm 5^{\circ}\text{C}$ Depth: DIP 2/3 , SMD 1/5, time: 3.0s-5.0s, 80% or more of the immersed surface shall be covered with solder and well-proportioned.

4.7 Vibration Fatigue:

The components shall remain within the electrical specifications after loaded vibration at 10~55Hz, amplitude 1.5mm, X, Y, Z, direction, for 2 hours.

4.8 Terminal strength:

The force 10 ± 1 seconds of 19.6N is applied to each terminal, and 45° in the same direction 2 times with 2N bending force (Exception: SMD)

4.9 Mechanical Shock:

The components shall remain within the electrical specifications after 1000 shocks, acceleration 392 m/s^2 , duration 6ms.

Note: As a result of the particularity of inner structure of SAW products, it easy to be breakdown by electrostatic, so we should pay attention to ESD protect in the test.

5. Remarks

5.1 Static voltage

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

5.2 Ultrasonic cleaning

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

5.3 Soldering

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

单击下面可查看定价，库存，交付和生命周期等信息

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