TAI-SAW TECHNOLOGY CO., LTD.
No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Taoyuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

Product Specifications Approval Sheet

Product Name: 70MHz SAW IF Filter (BW=20MHz)

TST Parts No.: TB0186A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Kazuma Lee Kazuma Lee

Approval by: Andy Yu Andy Yu

Date: 2018/08/09

1. Customer signed back is required before TST can proceed with sample build and receive orders.
2. Orders received without customer signed back will be regarded as agreement on the specifications.
3. Any specifications changes must be approved upon by both parties and a new revision of specifications shall be released to reflect the changes

TAI-SAW TECHNOLOGY CO., LTD.
No.3, Industrial 2nd Rd., Ping-Chen Industrial District, Taoyuan, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales3@mail.taisaw.com Web: www.taisaw.com

70 MHz SAW Filter (SMD 13.3x6.5 mm)
Model No.: TB0186A Rev. No.:4

RoHS Compliant
Lead free
Lead-free soldering

A. Maximum Rating:

1. Input Power Level: +20 dB_m
2. Operating Temperature: 0°C to +70°C
3. Storage Temperature: -40°C to +85°C
4. Moisture Sensitive Level (MSL): Level 1

B. Electrical Characteristics:

Parameter	Unit	Min.	Typ.	Max.
Center frequency, **Fc**	MHz	69.8	70	70.2
Insertion Loss, **IL**	dB	-	16	17.5
1 dB Bandwidth	MHz	20	20.9	-
3 dB Bandwidth	dB	21.5	22.2	-
40 dB Bandwidth	MHz	-	27.3	28.2
Amplitude ripple (61.76MHz~78.24MHz)	dB	-	0.6	1
Phase Linearity (61.2MHz~78.8MHz) (rms)	deg	-	1.5	5
Group Delay ripple (61.2MHz~78.8MHz)	nsec	-	60	100
Absolute Delay	μsec	-	0.72	-
Attenuation (Reference level from 0 dB)				
0 ~ 56MHz	dB	45	52	-
84~140MHz	dB	45	52	-
Substrate Material	-	-	LN-YZ	-
Temperature Coefficient	ppm/ °C	-	-94	-
Ambient Temperature	°C	-	25	-

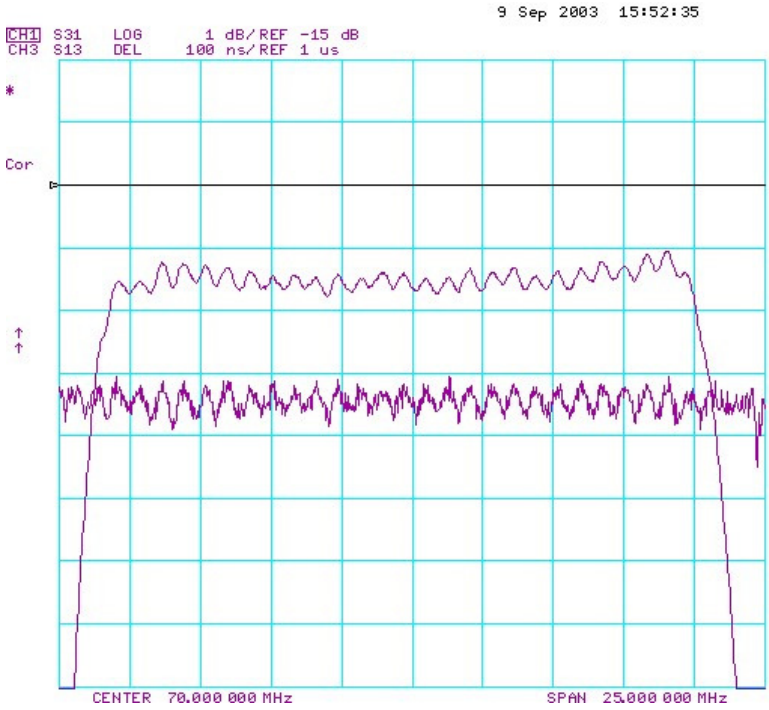
C. Frequency Characteristics:

(1) S21 Response:

Horizontal: 10 MHz/Div

Vertical: 10 dB/Div

(2) Group Delay and Ripple



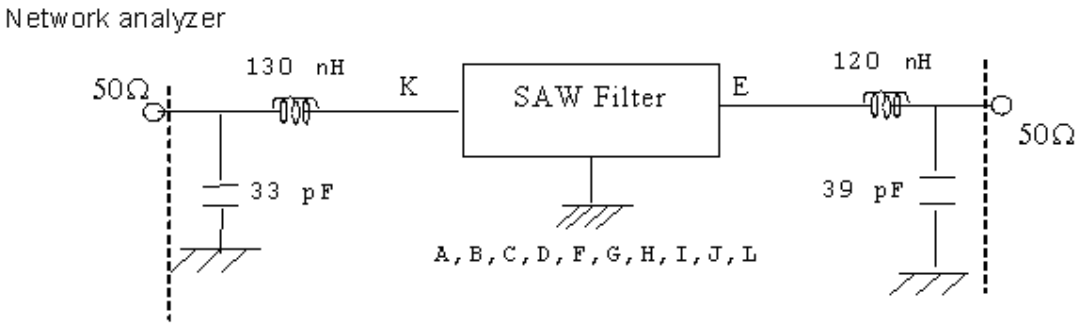
Horizontal: 2.5 MHz/Div

CH1 Vertical 1: 1 dB/Div

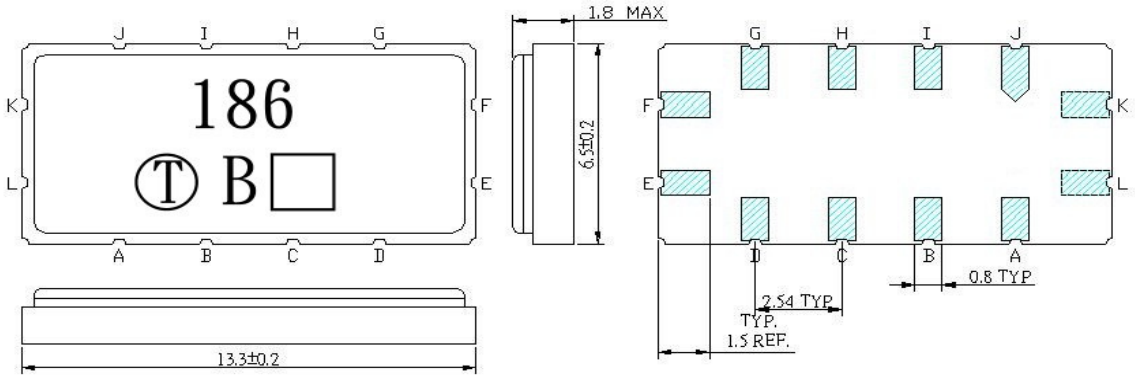
CH2 Vertical 2: 100 nsec/Div

D. Measurement Circuit:

For 50 ohm Unbalanced Input and Output



E. Outline Drawing:



Unit: mm

Pin K: RF Input

Pin E: RF Output

Pin L: Input Ground

Pin F: Output Ground

Pin A, B, C, D, G, H, I, J: To be Ground

□: Date code