



TAI-SAW TECHNOLOGY CO., LTD.

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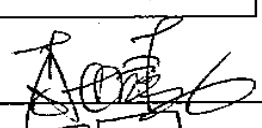
Product Specifications Approval Sheet

Product Name: SAW IF Filter 70 MHz (package 13.3mm x6.5 mm)

TST Parts No.: TB0202A

Customer Parts No.: _____

Customer signature required
Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: _____ Kazuma Lee 

Approval by: _____ Francis Chen 

Date: _____ 11 / 12 / 2010

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.



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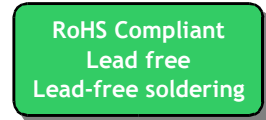
Low-Loss 70 MHz IF SAW Filter (SMD 13.3x6.5 mm)

Model No.: TB0202A

Rev. No.:4

A. Maximum Rating:

1. Input Power Level: +10 dB_m
2. Operating Temperature: -30°C to +80°C
3. Storage Temperature: -40°C to +85°C

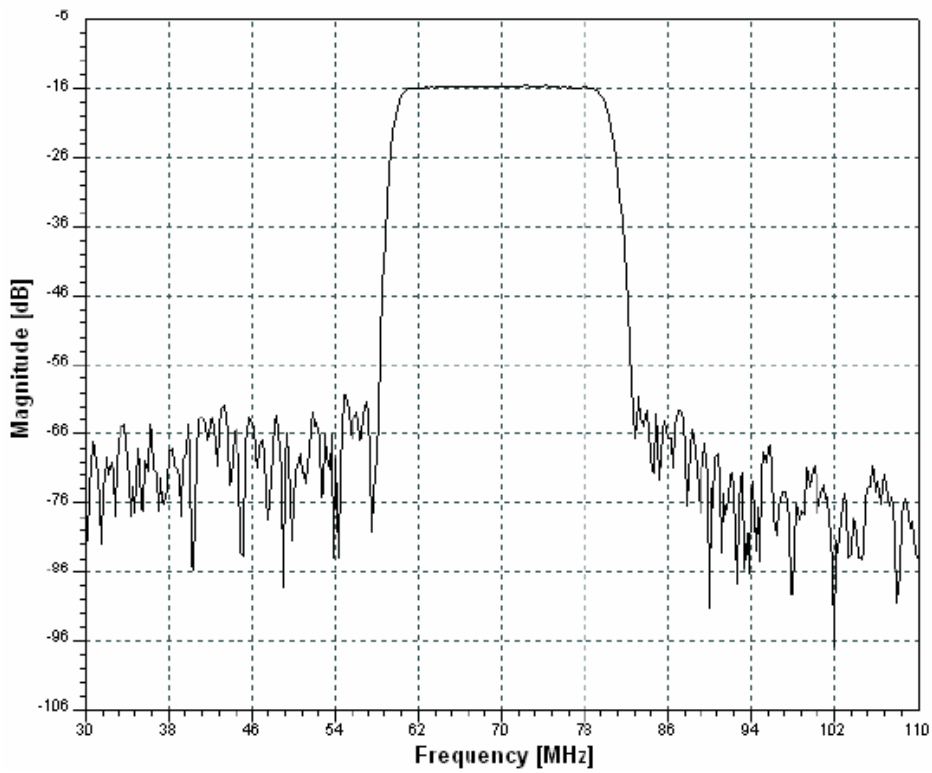


B. Electrical Characteristics:

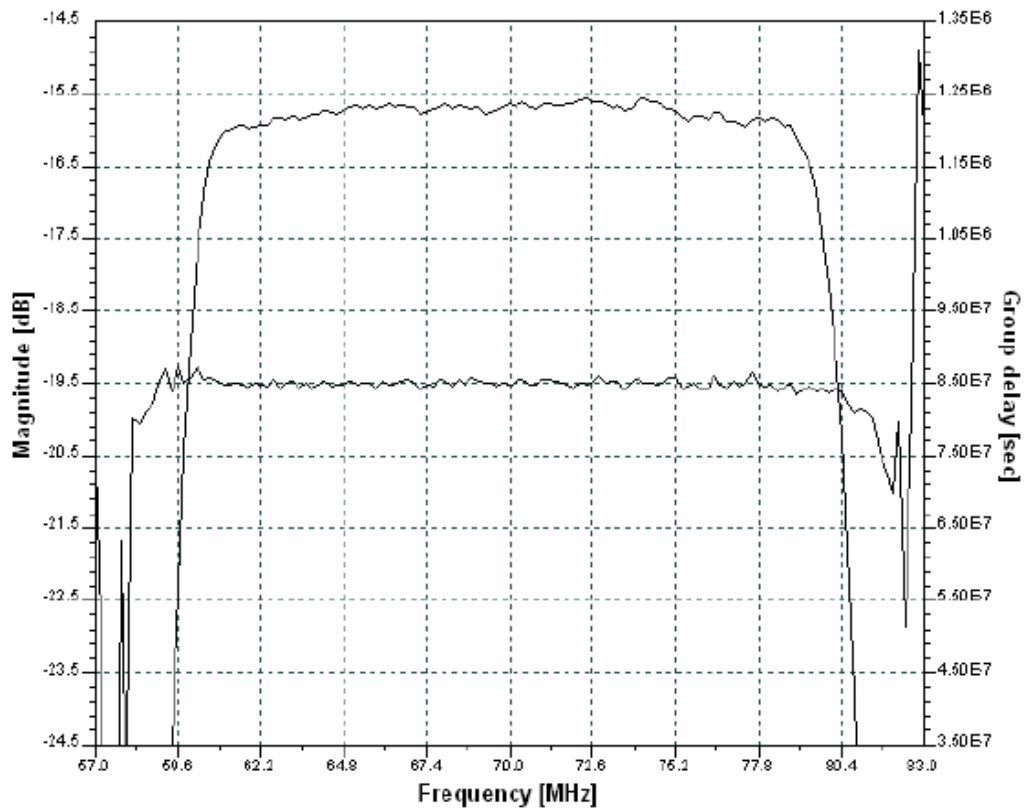
Parameters	Unit	Min.	Typical	Max.
Center frequency, F_c	MHz	69.8	70	70.2
Insertion Loss, IL	dB	-	15.5	16.5
1 dB Bandwidth	MHz	18.70	18.99	-
3 dB Bandwidth	MHz	19.70	20.05	-
40 dB Bandwidth	MHz	-	24.08	25.50
Relative Attenuation:				
10 to 57 MHz	dB	40	45	-
83 to 140 MHz	dB	40	45	-
Amplitude ripple within $F_c \pm 8.2$ MHz	dB	-	0.5	1.0
Group Delay ripple within $F_c \pm 8.2$ MHz	nsec	-	25	50
Absolute Group Delay at F_c	usec	-	0.85	-
Substrate Material	-	-	YZ-LN	-
Temperature Coefficient of frequency	ppm/ °C	-	-94	-

C. Frequency Characteristics:

(1) Frequency Response



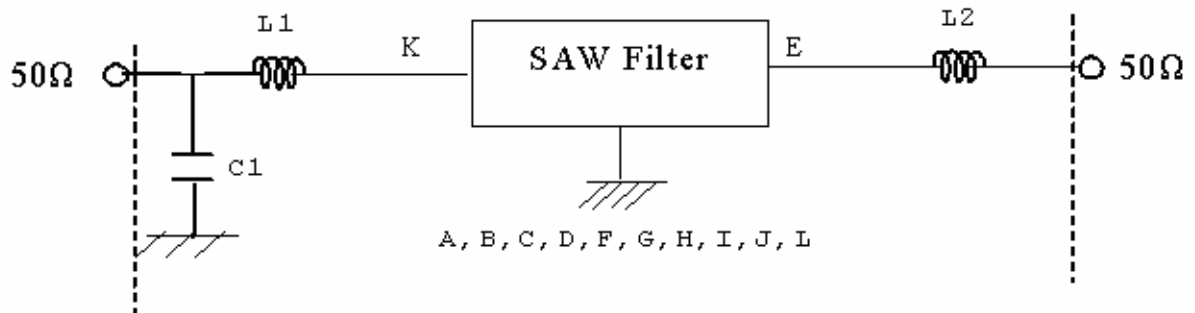
(2) Passband response and Group Delay Variation



D. Measurement Circuit:

Source and load impedance: 50 Ω

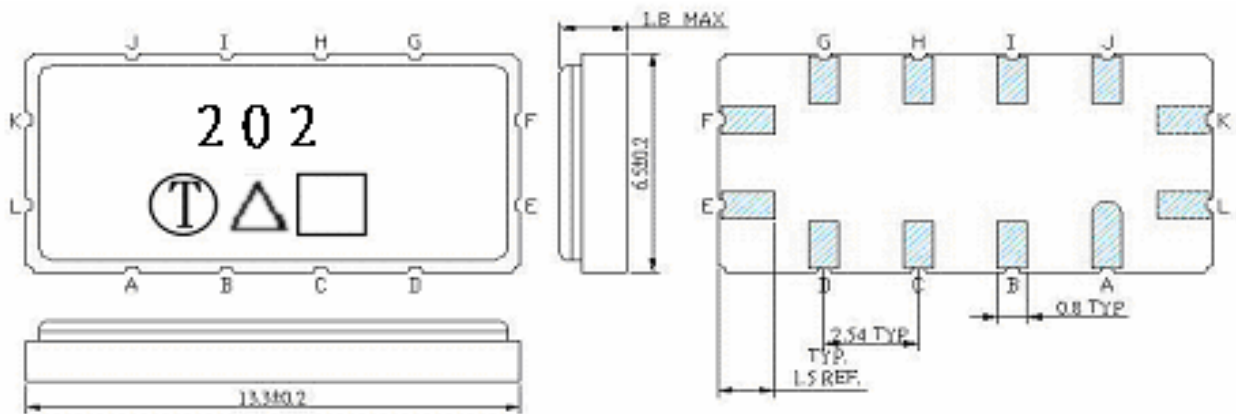
Network analyzer



Input: L1=100+39 nH, Q>40; C1=47 pF

Output: L2=220+22 nH, Q>40

E. Outline Drawing:



Unit: mm

Pin K=L: RF input

Pin E=F: RF output

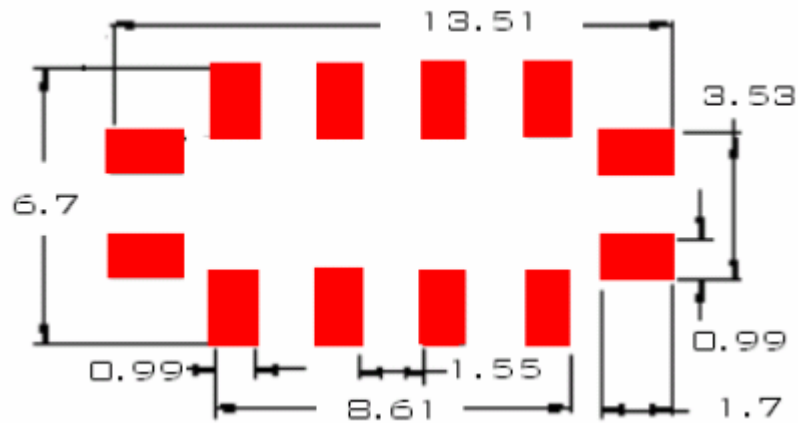
□ : Week Code (Follow the table from planner each year)

Unit : mm

△ : Product / Year Code

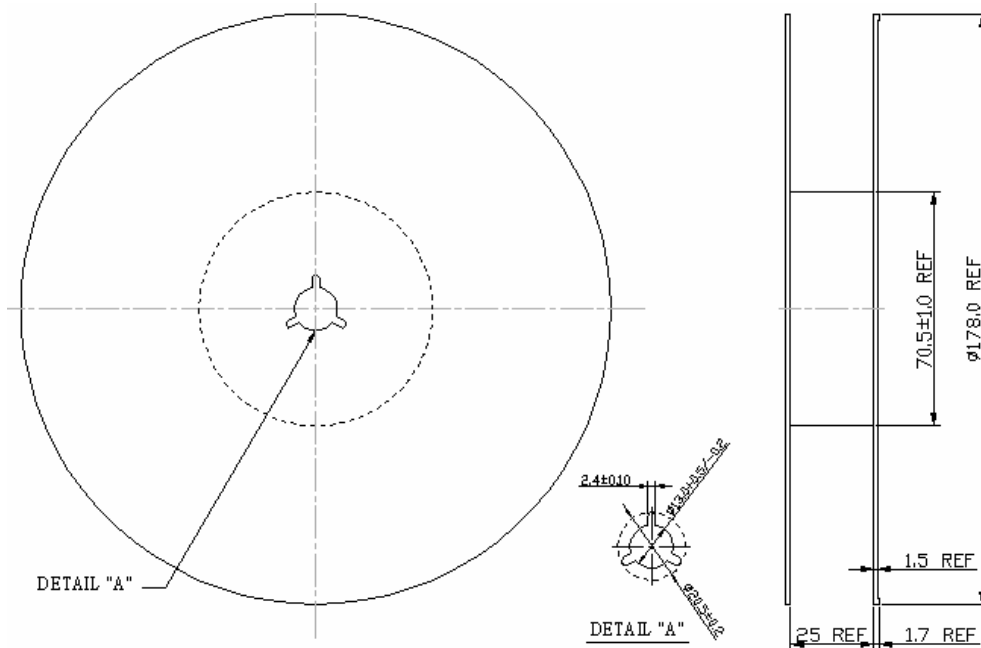
Year	2009 2013	2010 2014	2011 2015	2012 2016
Product Code	B	b	<u>B</u>	<u>b</u>

F. PCB Footprint:

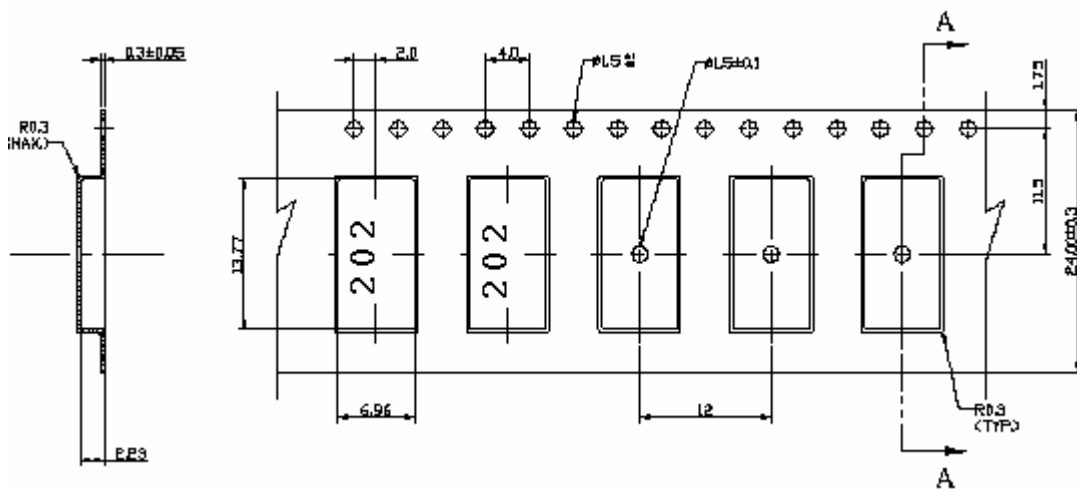


F. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



G. Recommended Reflow Profile:

