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
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Product Specifications Approval Sheet

Issued Date:

Product Name: SAW IF Filter 190 MHz

TST Parts No.: TB0190A (package 3.8mm x 3.8 mm)

Customer Parts No.:_____

Customer signature required

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by:_____ Kazuma Lee _____

Approval by:_____ Francis Chen _____

Date:_____ 04 / 30 / 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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190 MHz IF SAW Filter (SMD 3.8x3.8mm)
Model No.: TB0190A Rev. No.:5

RoHS Compliant
Lead free
Lead-free soldering

A. Maximum Rating:

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

B. Electrical Characteristics:

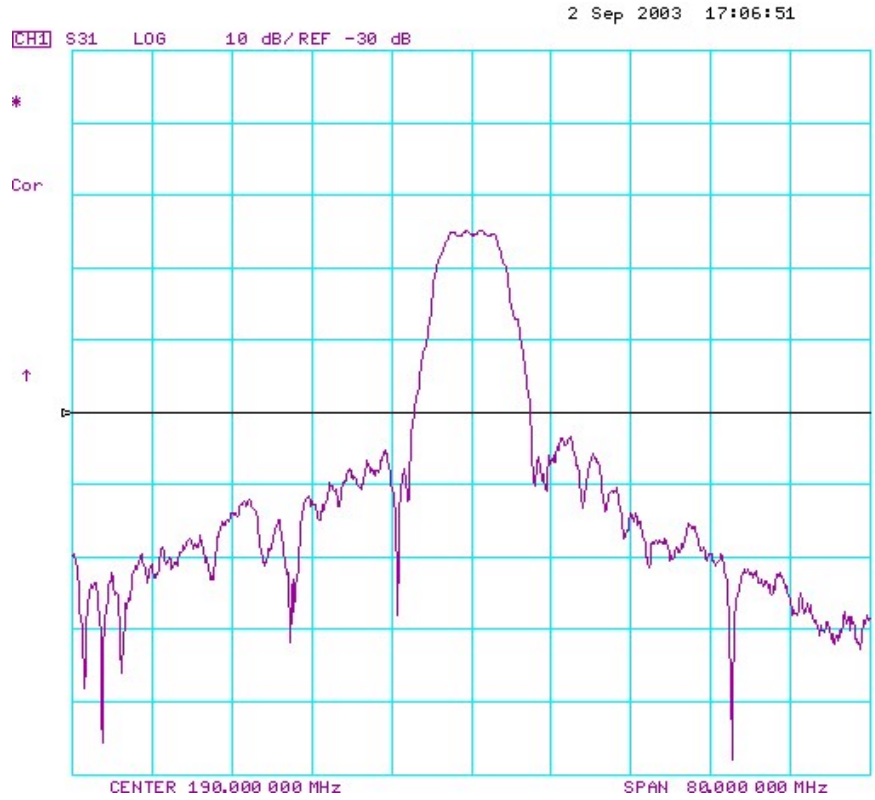
Parameter	Unit	Min.	Typ.	Max.	Note
Center frequency, **Fc**	MHz	189.9	190	190.1	-
Insertion Loss, **IL**	dB	-	4.7	7	1
3dB Bandwidth	MHz	4.6	6	-	-
Amplitude Ripple within ±2MHz	dB	-	0.9	2.0	-
Group Delay Ripple within ±2MHz	nsec	-	70	100	-
Rejection (Reference level from 0 dB)					
from ±5.0 MHz to ±7.5 MHz	dB	10	19	-	-
from ±7.5 MHz to ±12.5 MHz	dB	25	33	-	-
from ±12.5 MHz to ±15 MHz	dB	35	37	-	-
from ±15 MHz to ±100 MHz	dB	40	43	-	-

Notes:

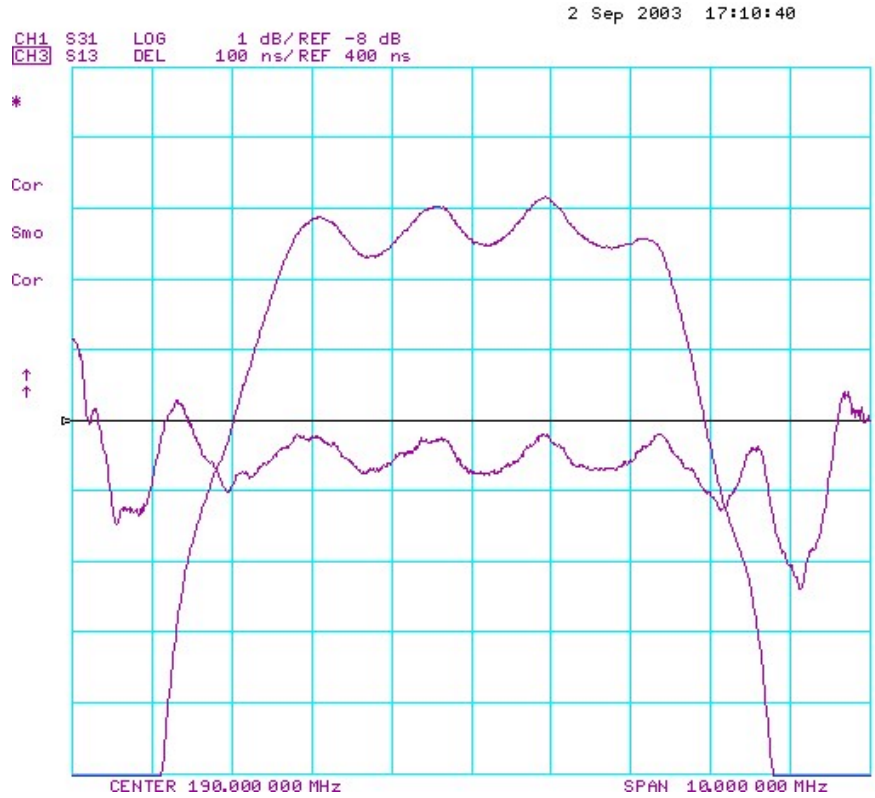
1.For the Insertion Loss measurements, we excludes losses in matching circuit.

C. Frequency Characteristics:

(1) S21 Response:

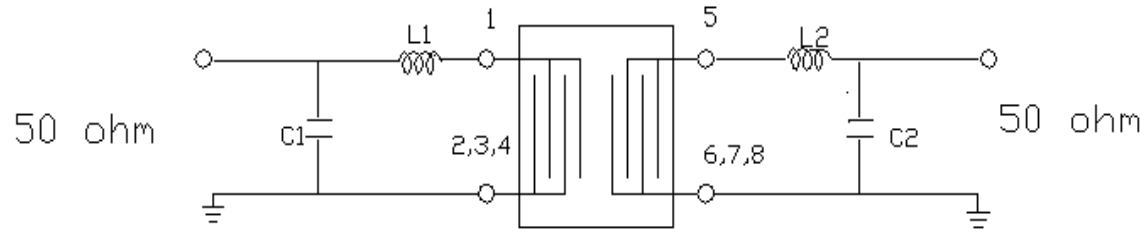


(2) Amplitude Ripple and Group Delay



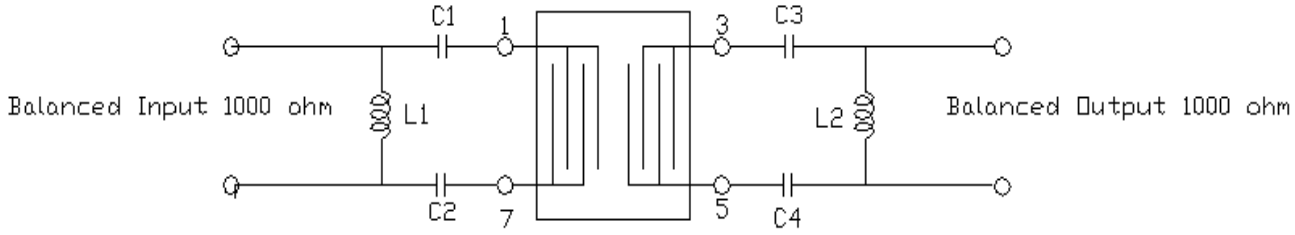
D. Measurement Circuit:

1.For 50 ohm Unbalanced Input and Output



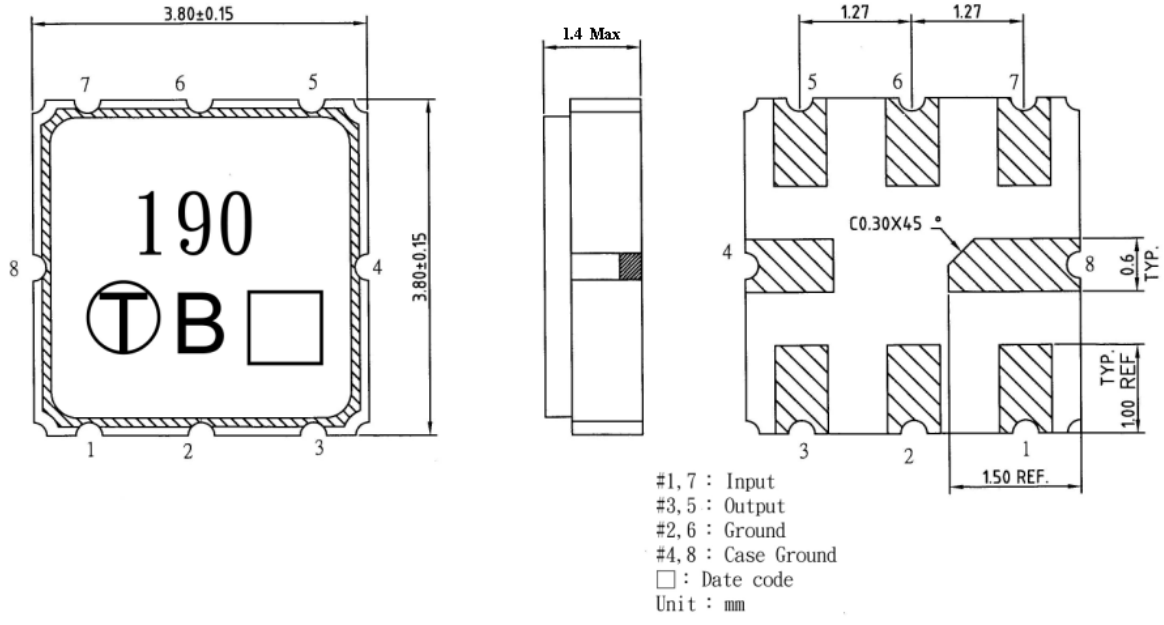
L1=100nH C1=27pF L2=100nH C2=27pF

2.For 1000 ohm Balanced Input and Output



C1=C2=68pF L1=100nH
C3=C4=56pF L2=120nH

E. Outline Drawing:



F. <u>Packing:</u>

Tape and Reel dimension