TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,
Tao-Yuan, 324, Taiwan, R.O.C.
TEL: 886-3-4690038 FAX: 886-3-4697532
E-mail: tstsales@mail.taisaw.com Web: www.taisaw.com

Approval Sheet for Product Specification

Issued Date:

Product Name: 248.45 MHz PHS IF SAW Filter (SMD 3.5×3.5 mm)

TST Parts No.: TB0251A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Lee

Approval by: Francis Chen

Date: 2006,9,28

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248.45 MHz PHS IF SAW Filter (SMD 3.5×3.5 mm)
Model No.: TB0251A Rev. No.:4

RoHS Compliant
Lead free
Lead-free soldering

A. Maximum Rating:

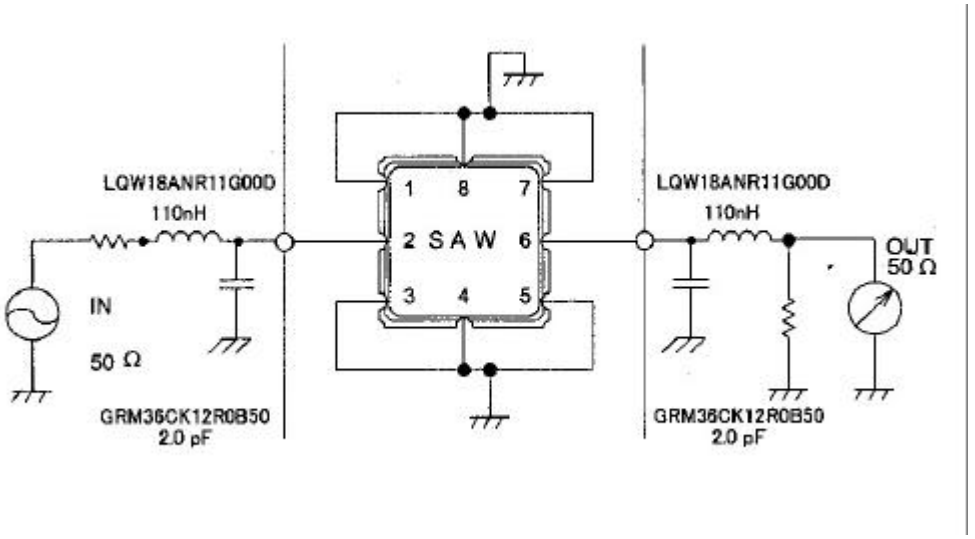
1. Input Power Level: +5 dB_m
2. Operating Temperature: -10°C to +60°C
3. Storage Temperature: -40°C to +85°C

B. Electrical Characteristics:

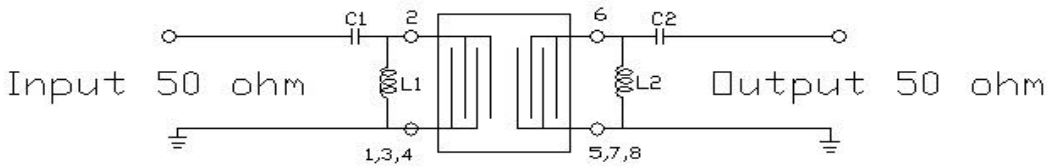
Parameters	Unit	Min.	Typical	Max.
Nominal Center frequency, Fo	MHz	-	248.45	-
Insertion Loss at Fo	dB	-	4.0	4.5
3 dB Bandwidth	MHz	-	0.56	-
Amplitude ripple, Fo±100 KHz	dB		0.55	1.0
Group delay ripple, Fo±100 KHz	μsec	-	0.55	1.0
Attenuation:				
Fo±600 KHz	dB	25	27	-
Fo±10.7 MHz	dB	40	60	-
Fo±21.4 MHz	dB	60	65	-

C. Measurement Circuit:

Matching circuit (1)



Matching circuit (2)



L1=75nH C1=3.3pF L2=68nH C2=5pF

D. Frequency Characteristics:

1. S21 Response

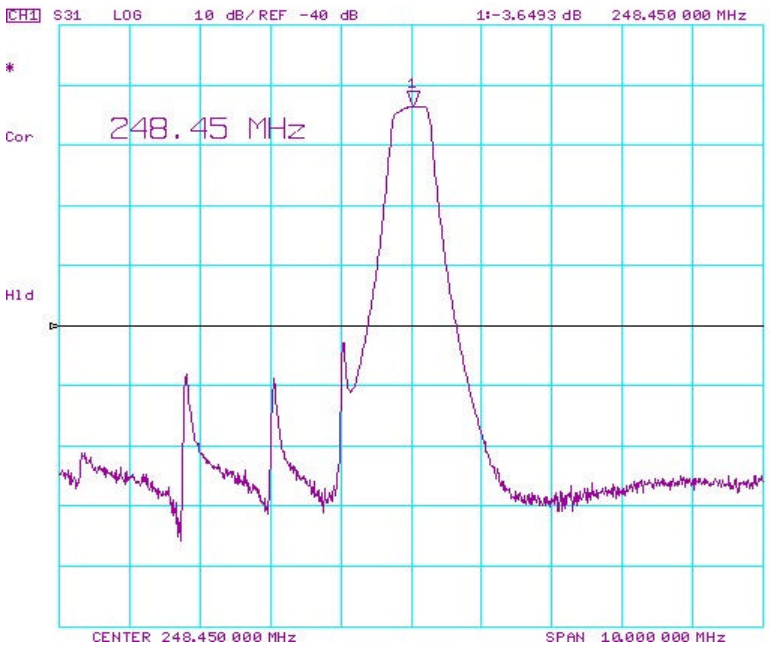


Fig1. Horizontal: 1MHz/Div Vertical: 10dB/Div

2. S21 Response (Passband group delay and Passband ripple)

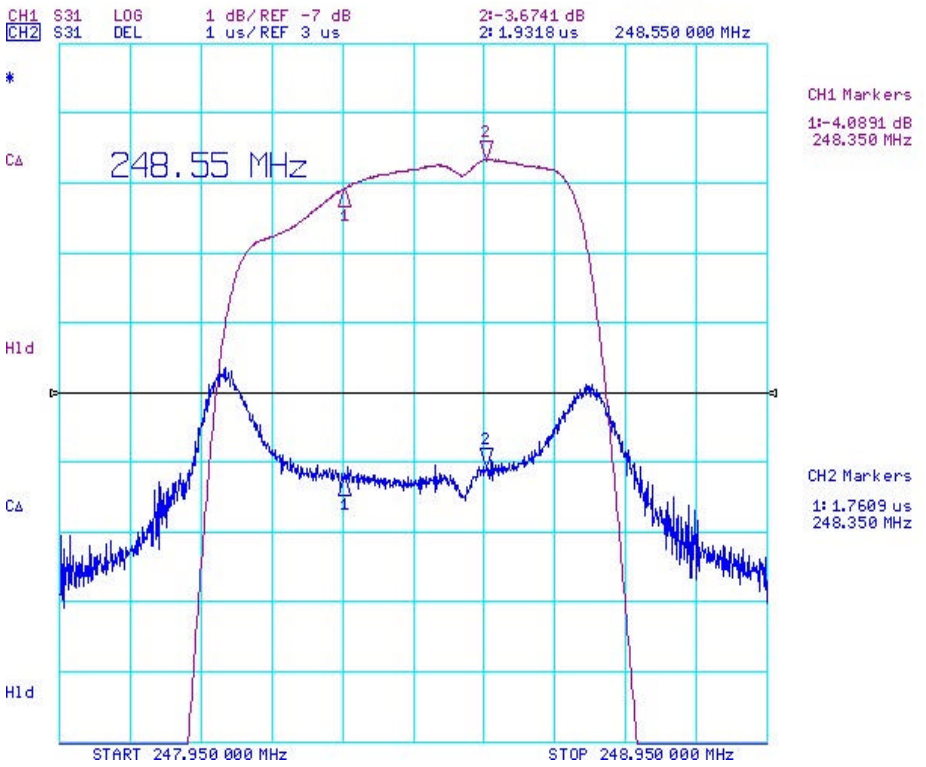
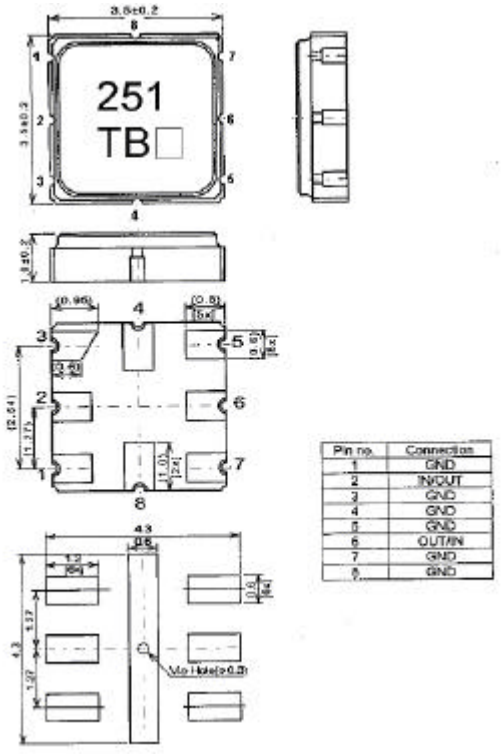


Fig2. Horizontal: 0.1MHz/Div Vertical: 1dB/Div 1μS/div

E. Outline Drawing:

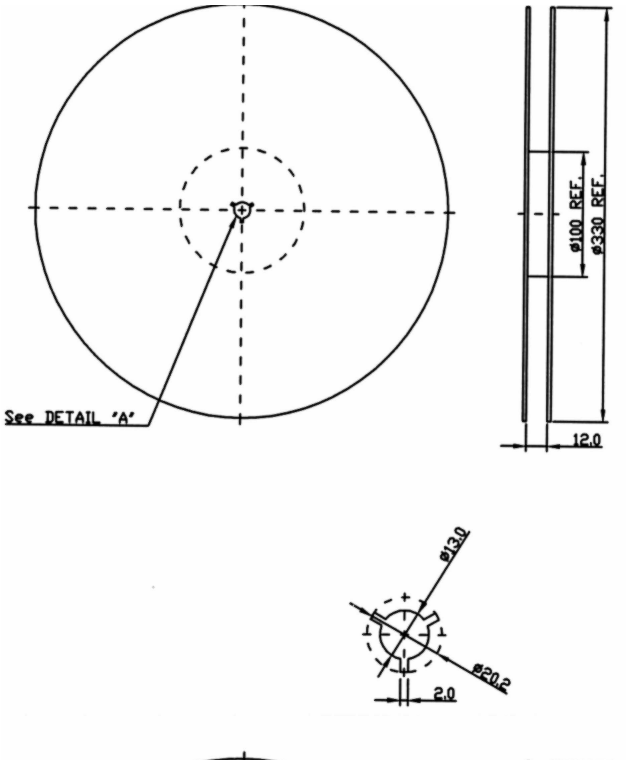


Pin no.	Connection
1	GND
2	IN/OUT
3	GND
4	GND
5	GND
6	OUT/IN
7	GND
8	GND

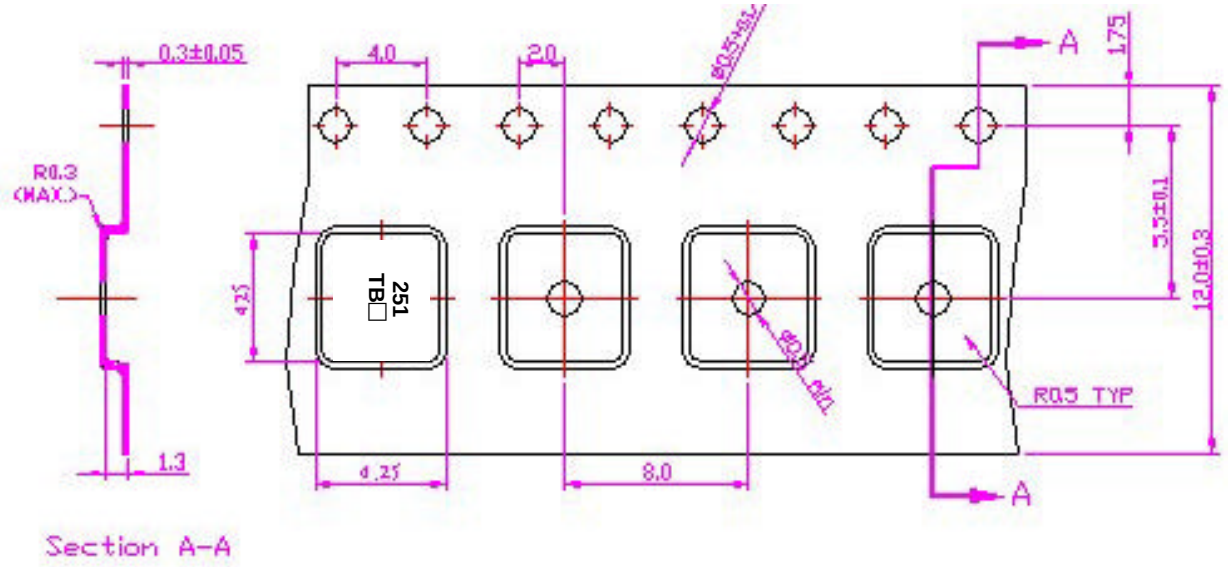
?: Date code

G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION



Direction of Feed