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

Approval Sheet For Product Specification

Issued Date:

Product Name: SAW IF Filter 403.5MHz (SMD 3.8×3.8 mm)

TST Parts No.: TB0261A

Customer Parts No.:_____

Company:_____

Division:_____

Approved by :_____

Date:_____

Checked by: Andy Lee

Approval by: Francis Chen

Date: 10,8 ,2004

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SAW Filter 403.5MHz (SMD 3.8×3.8 mm)
MODEL NO.: TB0261A REV. NO.: 1

RoHS Compliant
Lead free
Lead-free soldering

A. MAXIMUM RATING:

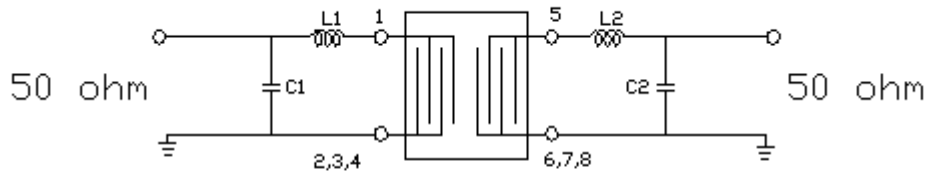
1.Input Power Level: 10 dBm
2.Operating Temperature: -10°C to 60°C
3.Storage Temperature: -40°C to 85°C

B. ELECTRICAL CHARACTERISTICS:

Characteristics	Value			
	Min.	Typ.	Max.	Note
Center frequency F_C MHz	-	403.5	-	-
1dB Bandwidth MHz	3	3.9	-	-
Minimum insertion loss. dB	-	4.7	5.5	-
Ripple (402MHz……405MHz) dB	-	0.8	1.5	-
Phase linearity (402 MHz……405 MHz) (rms)°	-	1.6	-	-
Return Loss (Input and Output) dB	-	9	-	-
Attenuation:(Reference level from Minimum insertion loss)				
(1) 303.5MHz~384MHz	25	35	-	-
(2) 384MHz~399MHz	20	26	-	-
(3) 408MHz~423MHz	20	25	-	-
(4) 423MHz~503.5MHz	25	31	-	-

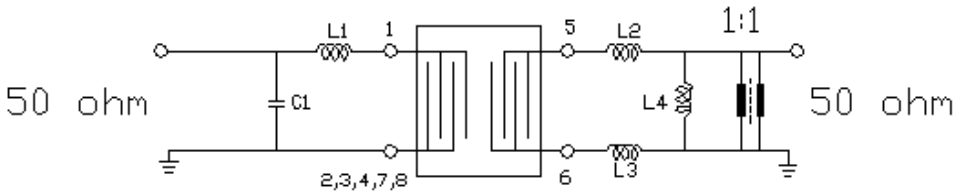
C. MEASUREMENT CIRCUIT:

1. Single Input to Single Output



L1=12nH C1=15pF L2=47nH C2=9pF

2. Single Input to Balanced Output

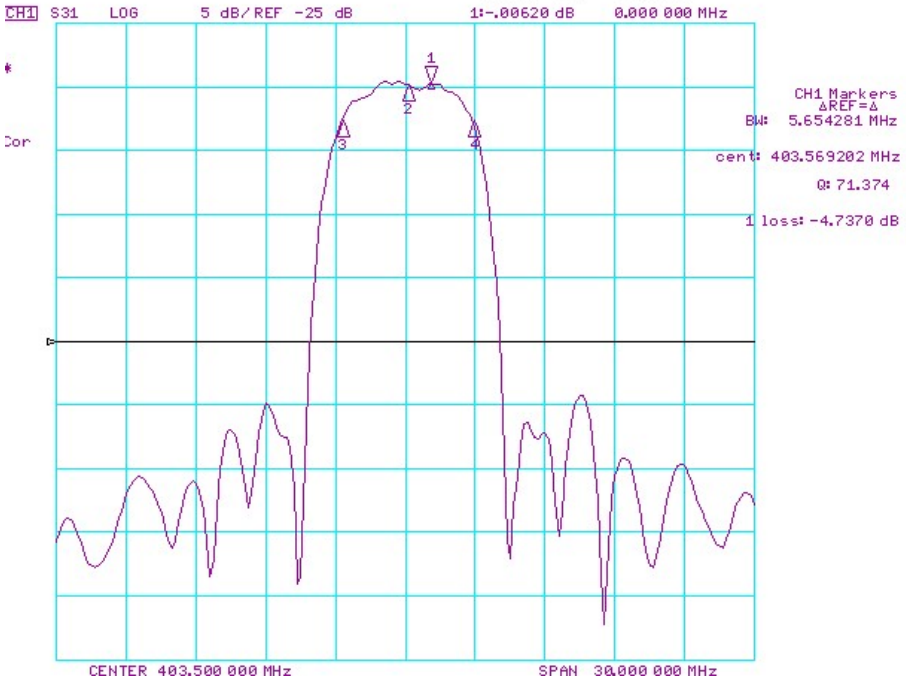


L1=12nH C1=15pF L2=L3=12nH L4=33nH

Note: The device balun can offer about 0.6dB loss additionally.

D.FREQUENCY CHRACTERISTICS:

1. Response of S21:

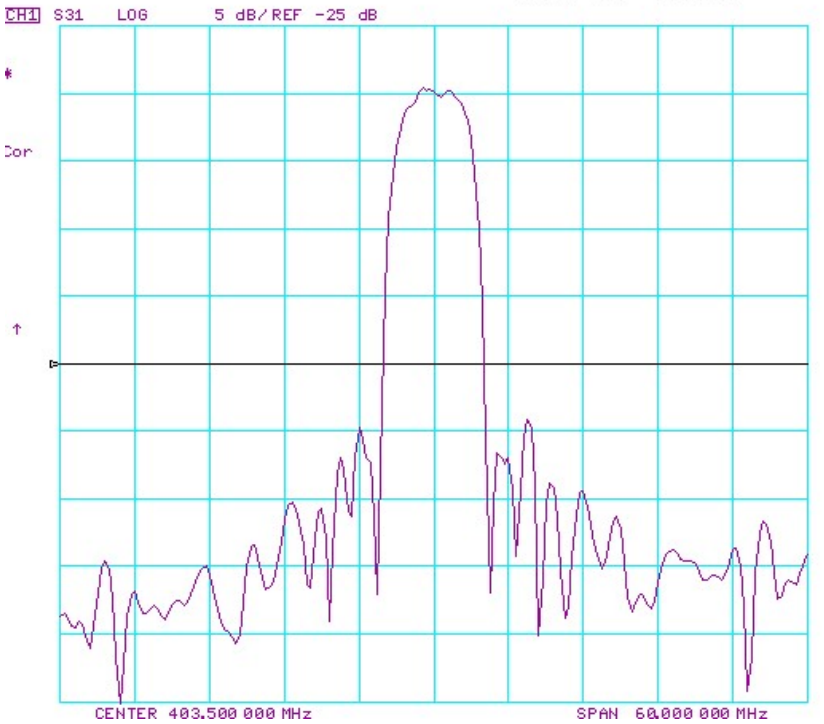


Horizontal: 3MHz/Div Vertical: 5dB/Div Reference: -25dB

(2) Passband of Response:

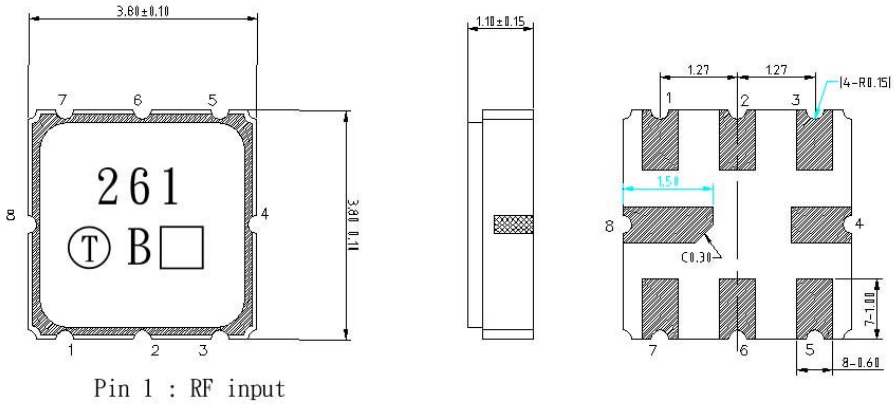
Group Delay and Ripple, Horizontal:1 MHz/Div
Vertical 1: 1 dB/Div Vertical 2: 100 nS/Div

(3) Wide band of Response:



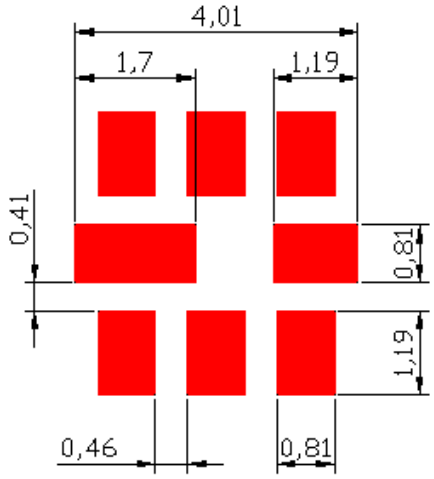
Horizontal: 6MHz/Div Vertical: 5dB/Div Reference: -25dB

E.OUTLINE DRAWING:



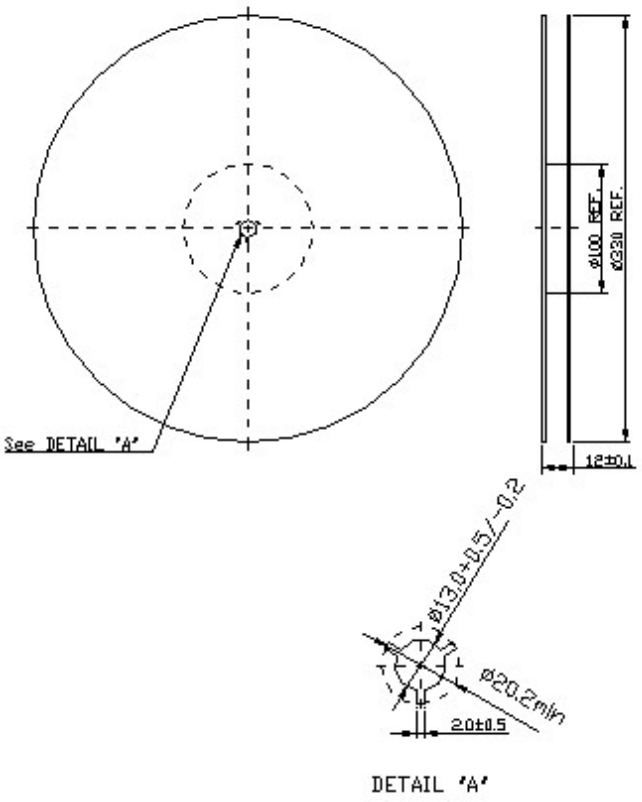
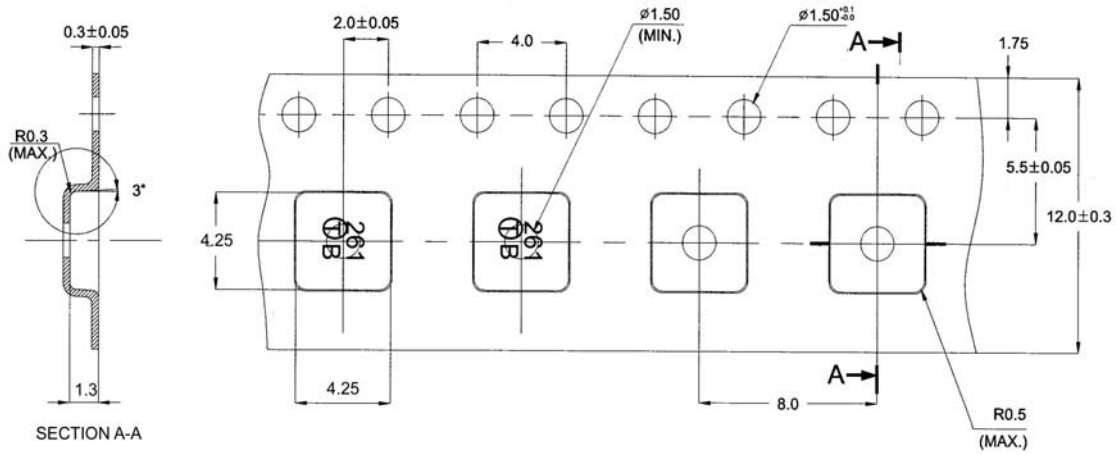
Pin 1 : RF input
Pin 5 : RF output or balanced output
Pin 6 : RF output ground or balance output
Pin 2, 3, 4, 7, 8 : To be Ground
□ : Date code
Unit : mm

F. PCB FOOTPRINT



G. PACKING:

1.REEL DIMENSION



2. TAPE DIMENSION