



TAI-SAW TECHNOLOGY CO., LTD.

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Approval Sheet For Product Specification

Issued Date: May, 11, 2005

Product Name: SAW Filter 1542.5 MHz SMD 2.5X2.0 mm

TST Parts No.: TA0425A

Customer Parts No.: _____

Company: _____

Division: _____

Approved by : _____

Date: _____

Checked by: _____ Bob Chau

Approval by: _____ Francis Chen

Date: _____ 5,11,2005



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SAW Filter 1542.5 MHz

MODEL NO.: TA0425A

REV. NO.:1

A1. MAXIMUM RATING:

1. Input Power Level: 5 dBm
2. DC Voltage: 5V
3. Operating Temperature: +25°C
4. Storage Temperature: -40°C ~ +85°C

RoHS Compliant
Lead free
Lead-free soldering

B1. ELECTRICAL CHARACTERISTICS :

Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \ \Omega$

Terminating load impedance : $Z_L = 150 \ \Omega // 33 \text{ nH}$

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c (MHz)	-	1542.5	-	-
Insertion loss (1525~1560 MHz) I.L. (dB)	-	3.1	4.0	-
Amplitude Ripple (1525~1560 MHz) (dB)	-	0.4	2.0	-
Attenuation: (Reference level from 0 dB)				
DC ~ 1480 MHz (dB)	21	44	-	-
1630 ~ 1660 MHz (dB)	26	34	-	-
1660 ~ 2050 MHz (dB)	30	35	-	-
2050 ~ 3500 MHz (dB)	25	50	-	-

A2. MAXIMUM RATING:

1. Input Power Level: 5 dBm
2. DC Voltage: 5V
3. Operating Temperature: -10°C ~ +75°C
4. Storage Temperature: -40°C ~ +85°C

B2. ELECTRICAL CHARACTERISTICS :

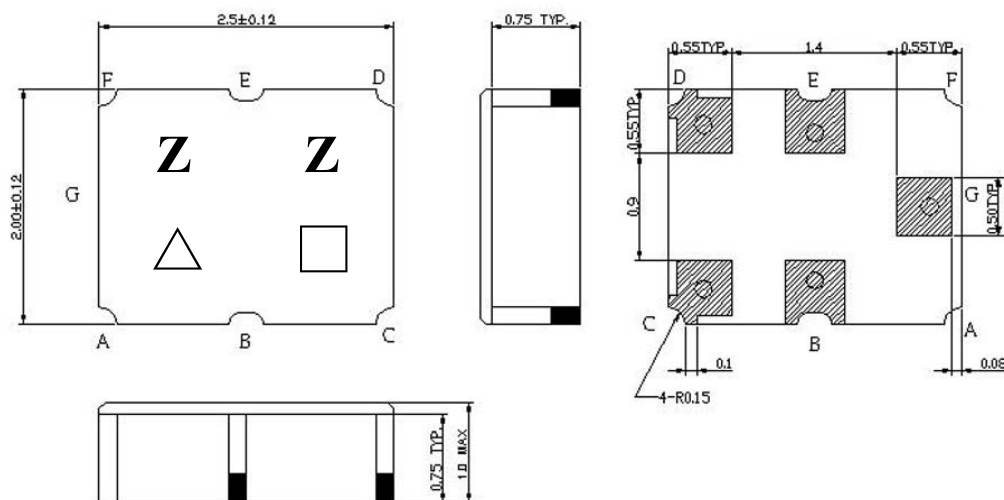
Singled to Balanced operation

Terminating source impedance : $Z_s = 50 \ \Omega$

Terminating load impedance : $Z_L = 150 \ \Omega // 33 \text{ nH}$

Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c (MHz)	-	1542.5	-	-
Insertion loss (1525~1560 MHz) I.L. (dB)	-	3.3	4.2	-
Amplitude Ripple (1525~1560 MHz) (dB)	-	0.7	2.0	-
Attenuation: (Reference level from 0 dB)				
DC ~ 1480 MHz (dB)	21	41	-	-
1630 ~ 1660 MHz (dB)	26	34	-	-
1660 ~ 2050 MHz (dB)	30	35	-	-
2050 ~ 3500 MHz (dB)	25	50	-	-

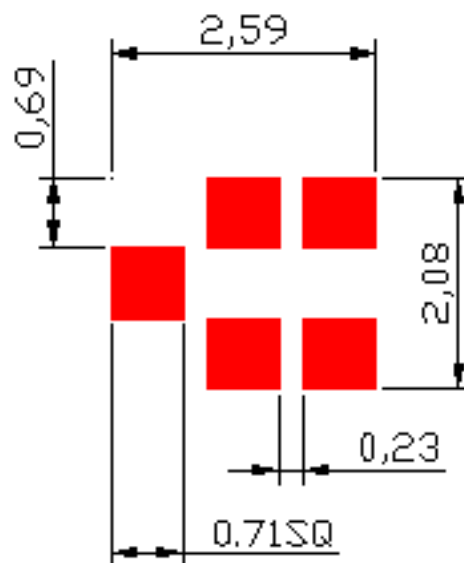
C. OUTLINE DRAWING:



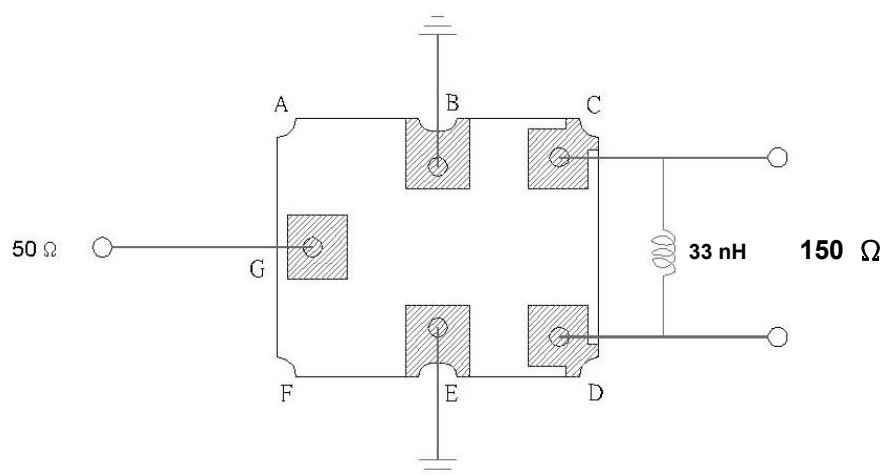
Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- △ : Year code
- : Date code
- Unit : mm

D. PCB Footprint:

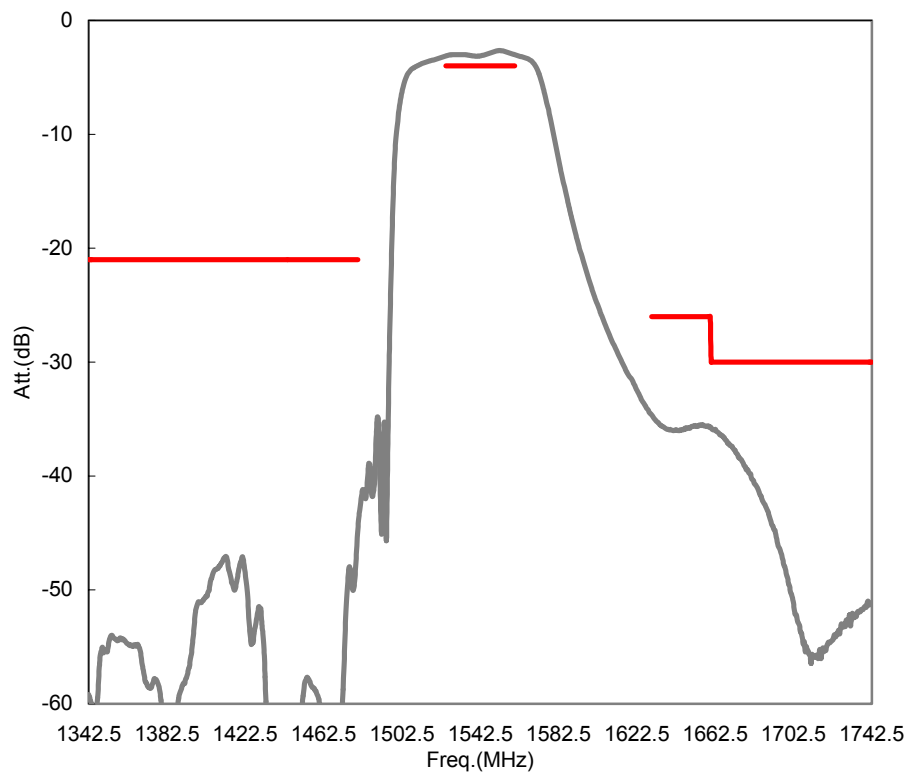
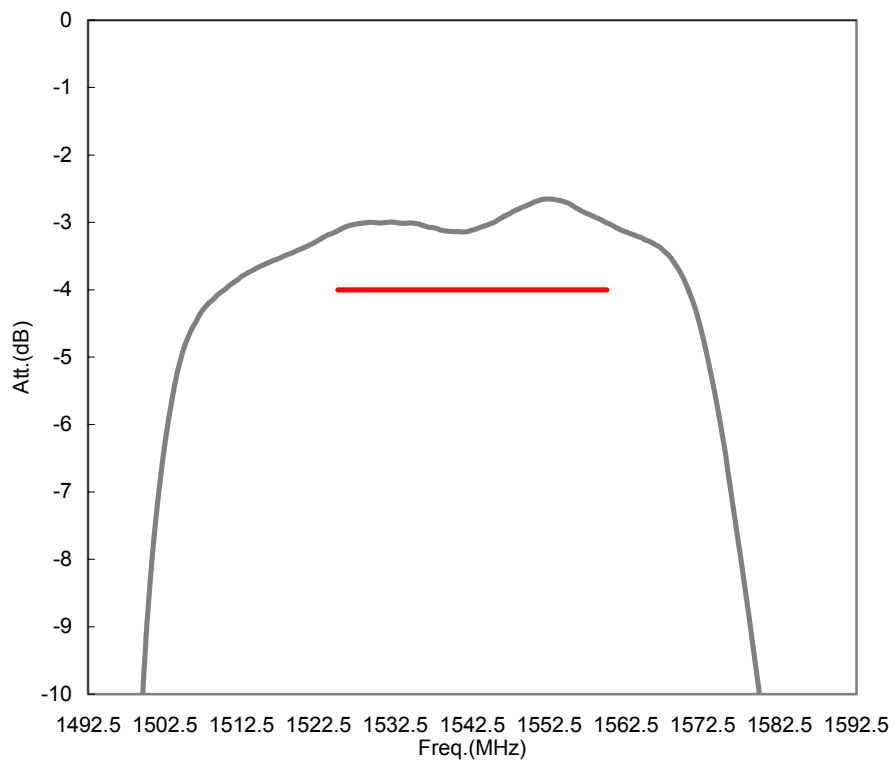


E. MEASUREMENT CIRCUIT:

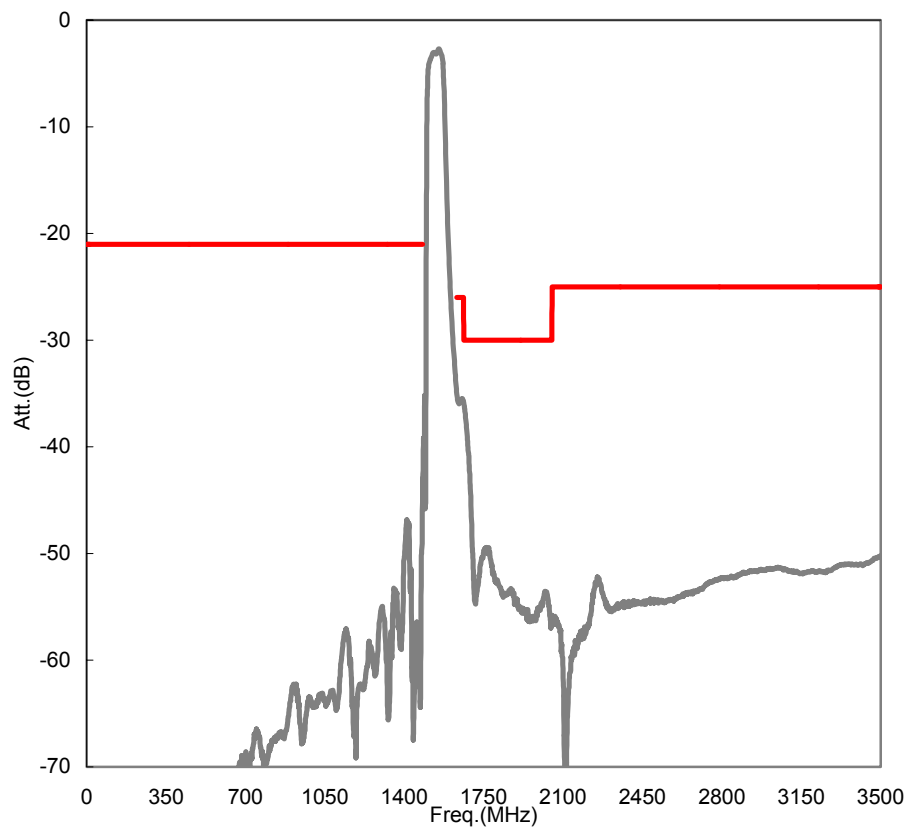


F. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

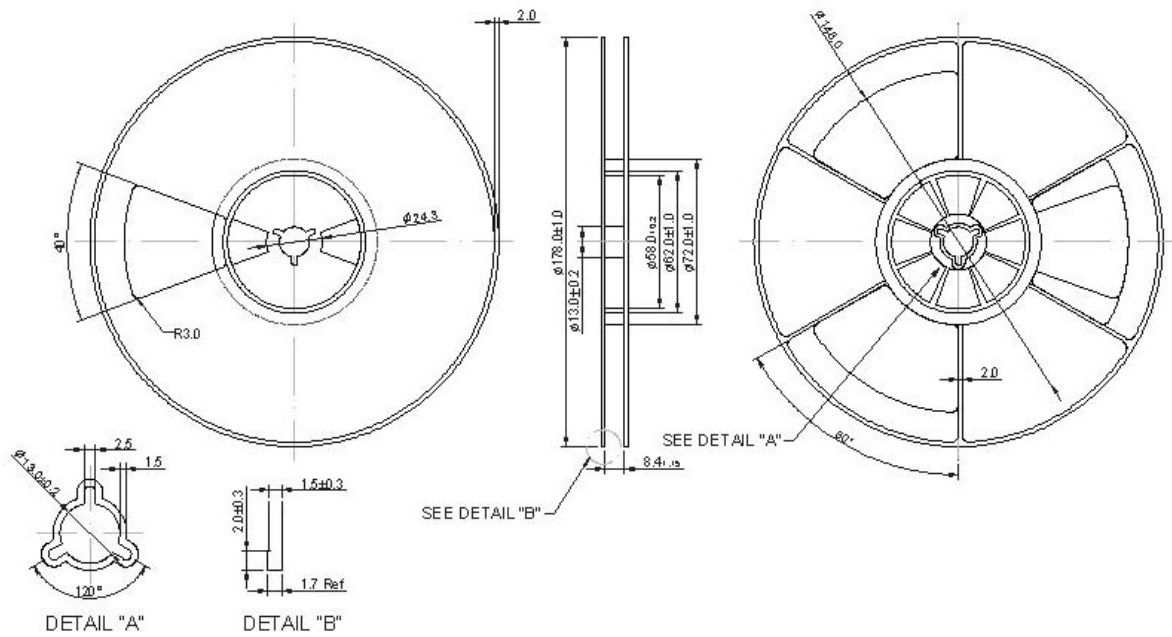


2. wideband



G. PACKING:

1. REEL DIMENSION



2. TAPE DIMENSION

