



# TAI-SAW TECHNOLOGY CO., LTD.

No. 3, Industrial 2nd Rd., Ping-Chen Industrial District,  
Taoyuan, 324, Taiwan, R.O.C.

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## Approval Sheet For Product Specification

Issued Date: 6/26/2003 (REV. NO: 1)

Product Name: SMD 5x7 45.15MHz Crystal Filter

TST Parts No.: TY0132A

Customer Parts No. : \_\_\_\_\_

Company: _____
Division: _____
Approved by : _____
Date: _____

Checked by: \_\_\_\_\_ CC Hsu

Approval by: \_\_\_\_\_ TF Yang

Date: \_\_\_\_\_ 6/26/2003



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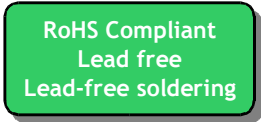
## SMD 5x7 45.15MHz Crystal Filter

MODEL NO.: TY0132A

REV. NO.: 1

### Features:

- Surface Mount Seam Weld Package
- 3-pole IF Filter
- High Reliability



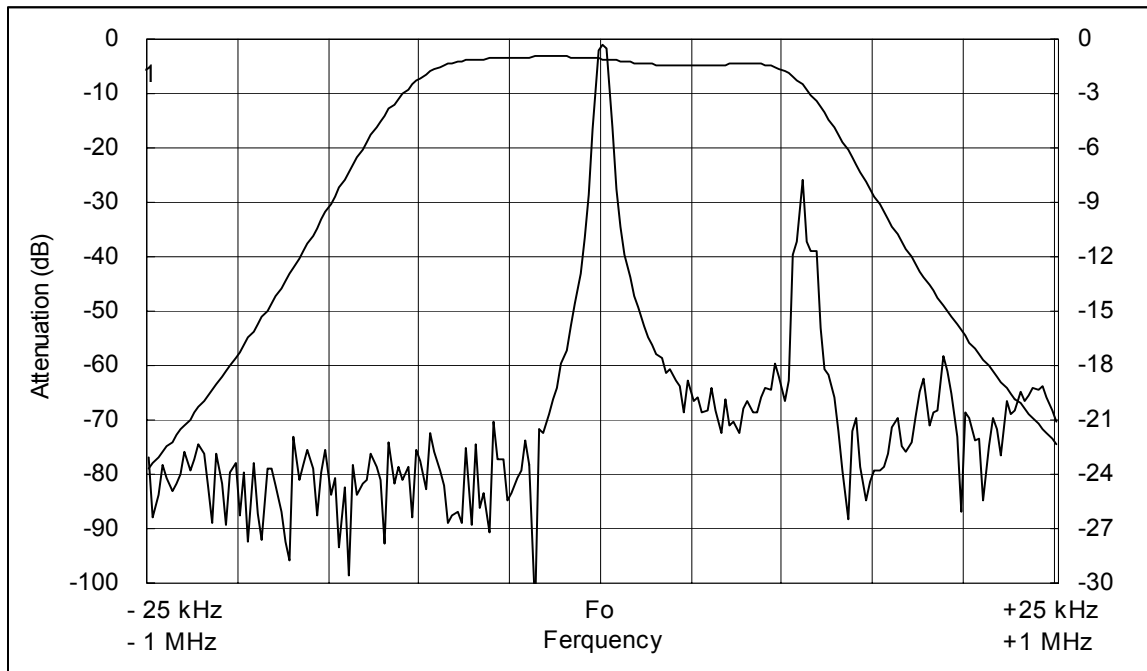
### Description and Applications:

Surface mount 5.0mmx7.0mm crystal filter for use in wireless telecommunication devices.

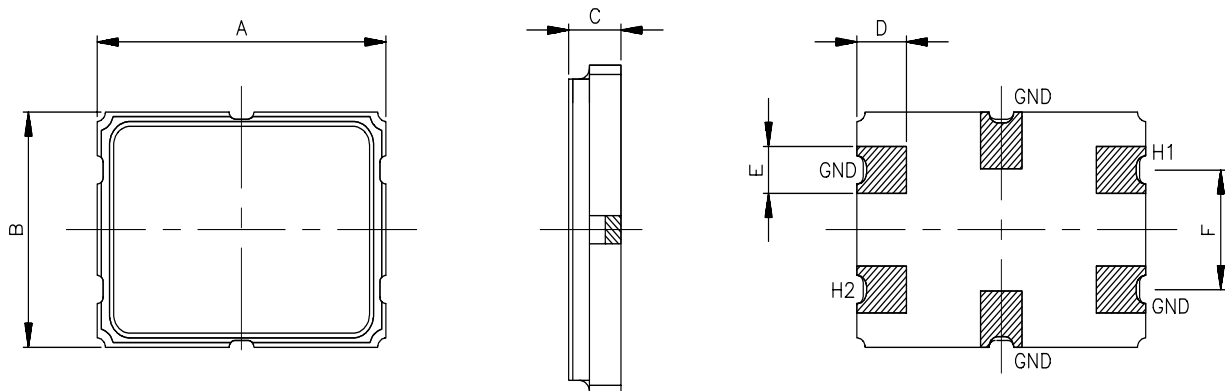
### Electrical Specifications:

TY0132A	Specification
Center Frequency Fo	45.15 MHz, Fundamental
Insertion Loss	3.0 dB max.
Ripple (@+/- 7.0 KHz)	1.0 dB max.
3 dB Passband	+/- 7.0 KHz
Stopband (@+/- 25 KHz)	15 dB min
Ultimate Attenuation @ Fo-910 KHz	70 dB min
Spurious	10 dB min
Terminating Impedance	600Ω// 3.0pF
Operating Temperature	-30°C ~ +70°C
Marking	Laser marking

## Frequency Response:



## Mechanical Dimensions (mm):

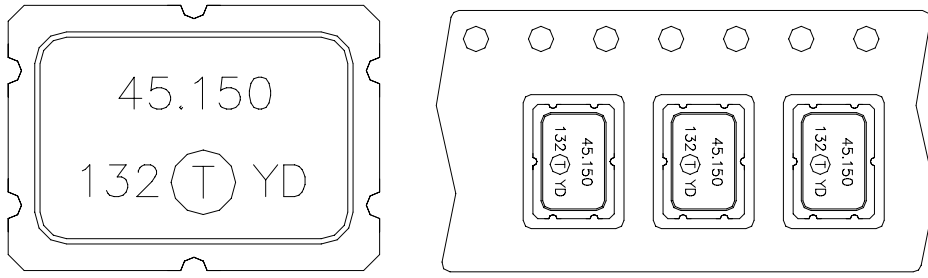


A	B	C	D	E	F
7.00 ±0.18	5.00 ±0.18	1.27 ±0.20	1.21 ±0.13	0.99 ±0.13	2.54 ±0.13

## Marking:

First Line: Customer Frequency (45.150)

Second Line: TST Part Number(132)+TST Logo+Crystal Filter Family+Date Code



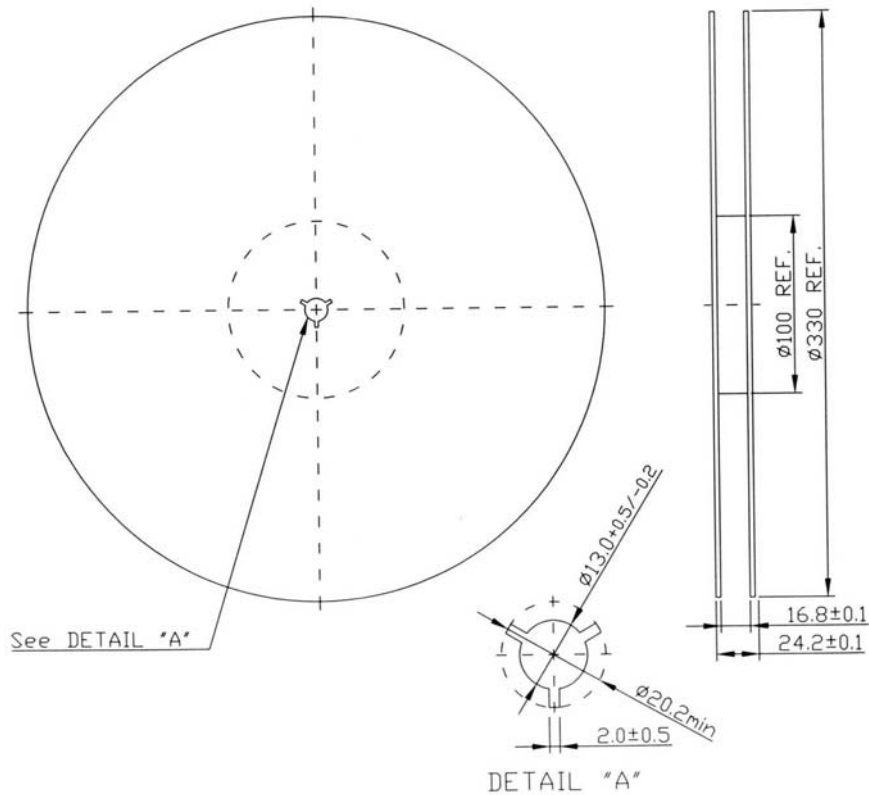
**Product Code Table**

Year	2001 2005	2002 2006	2003 2007	2004 2008
Product Code	Y	y	<u>Y</u>	<u>y</u>

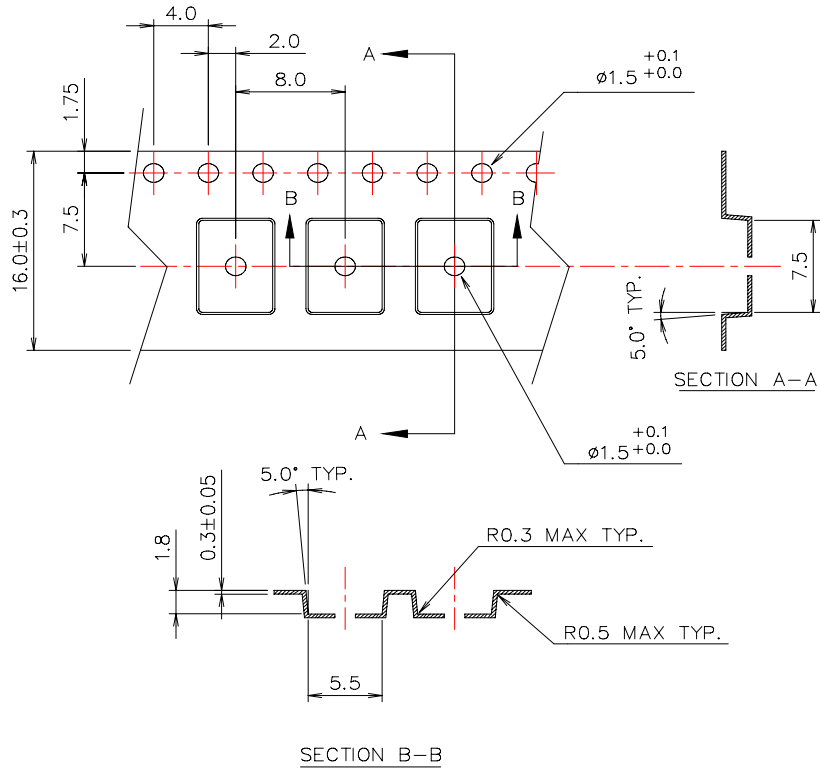
**Date Code Table**

WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45	WK46	WK47	WK48	WK49	WK50	WK51	WK52
n	o	p	q	r	s	t	u	v	w	x	y	z

**Reel Dimensions (mm):**



## Tape Dimensions (mm):



## Reflow Profile:

1. Preheating shall be fixed at  $140 \sim 160$  °C for  $60 \sim 90$  seconds.
2. Ascending time to preheating temperature  $150$  °C shall be  $30$  seconds min.
3. Heating shall be fixed at  $200$  °C for  $50 \sim 60$  seconds and at  $230 \pm 10$  °C peak.

