

# SAW Filter 1575.42 MHz

MODEL NO.: TA0440A

REV. NO.:4

RoHS Compliant  
Lead free  
Lead-free soldering

## A. MAXIMUM RATING:

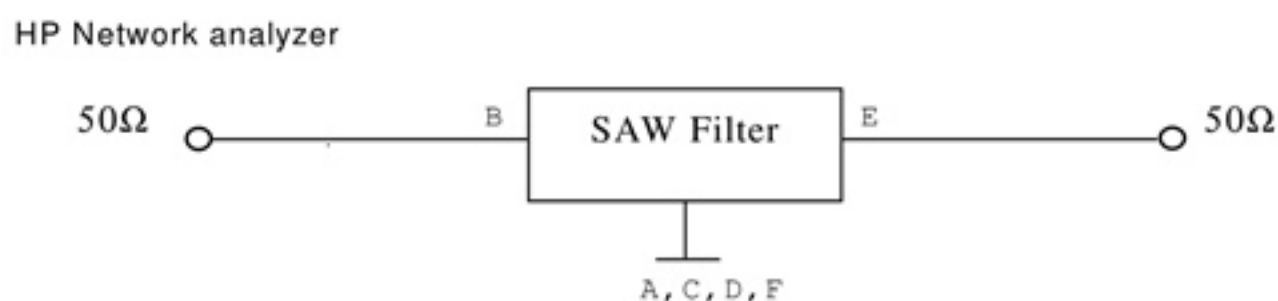
1. Input Power Level: 10 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -50°C to +100°C
5. Moisture Sensitivity Level: Level 1 (**MSL 1**)

## B. ELECTRICAL CHARACTERISTICS:

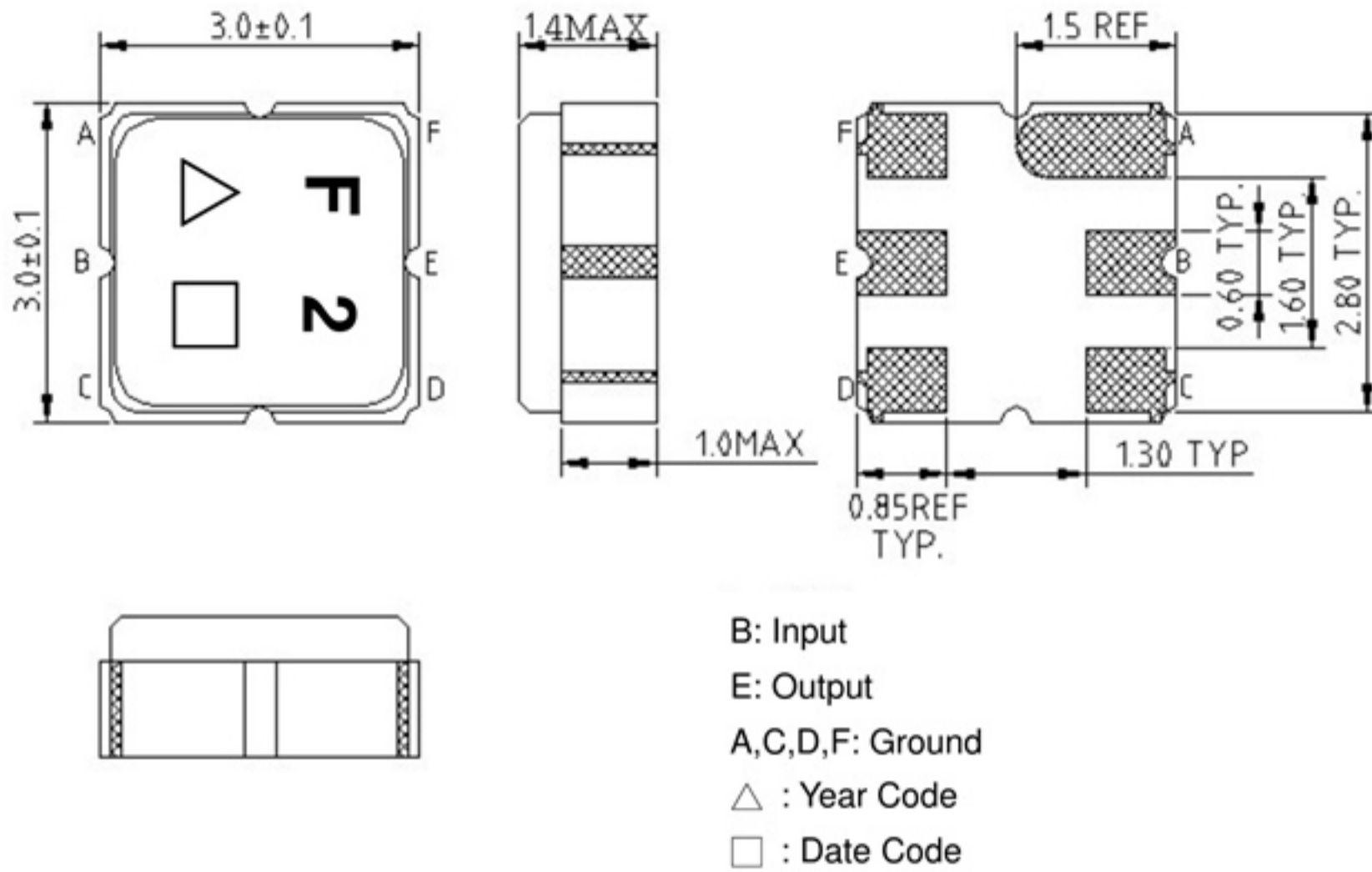
Item		Min.	Typ.	Max.	
<b>Center frequency</b>	<b>Fc</b> (dB)	-	1575.42	-	
<b>Insertion loss</b> (1574.42~1576.42 MHz)	<b>IL</b> (dB)	-	2.9	4.0	
<b>Amplitude ripple</b> (1574.42~1576.42 MHz)	(dB)	-	0.1	1.5	
<b>Attenuation</b> (Reference level from 0 dB)					
1 ~ 890	MHz	(dB)	40	60	-
890 ~ 1475	MHz	(dB)	36	55	-
1475.42	MHz	(dB)	36	50	-
1535.42	MHz	(dB)	29	50	-
1615.42	MHz	(dB)	25	42	-
1675.42	MHz	(dB)	40	55	-
1700 ~ 3000	MHz	(dB)	25	38	-
<b>Input/Output VSWR</b> (1574.42~1576.42 MHz)		-	1.55	2.5	
<b>Source impedance</b>	<b>Zs</b> (Ω)	-	50	-	
<b>Load impedance</b>	<b>ZL</b> (Ω)	-	50	-	

Note1. The standard definitions is in JIS C 6703

## C. MEASUREMENT CIRCUIT:



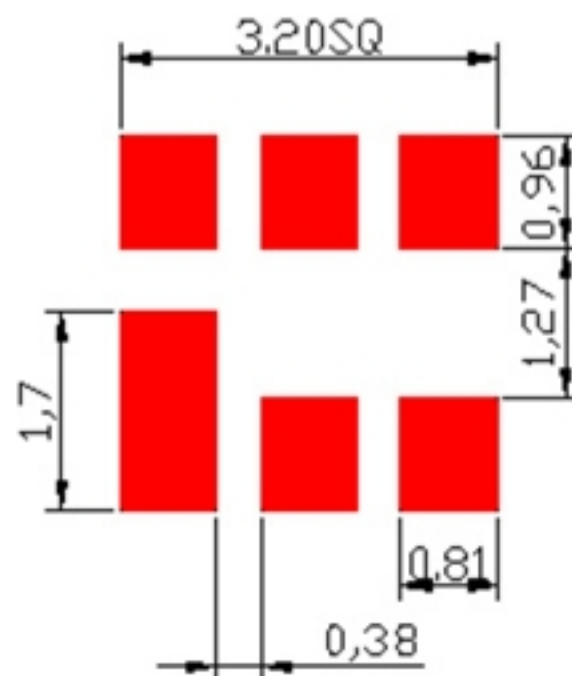
**D. OUTLINE DRAWING:**



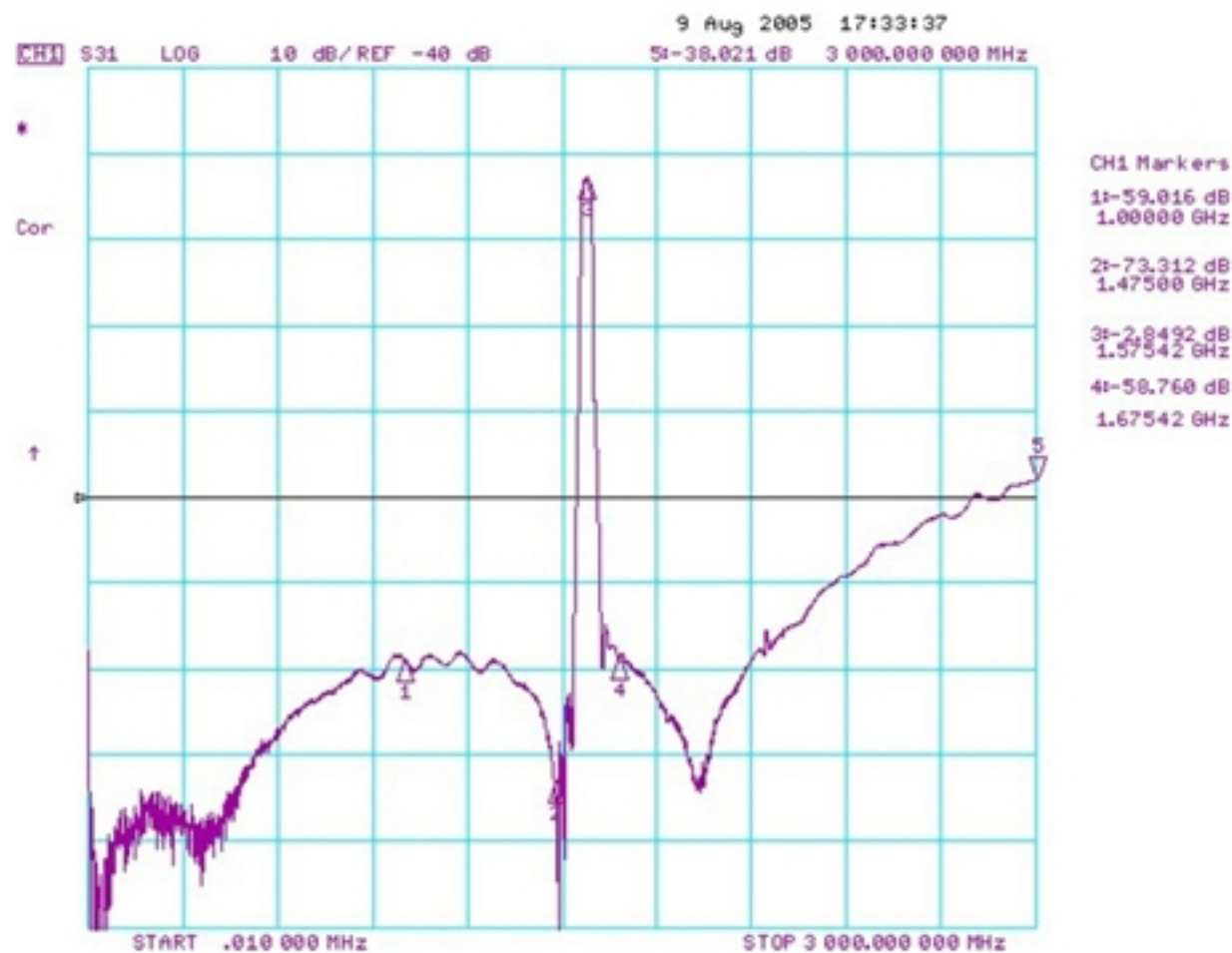
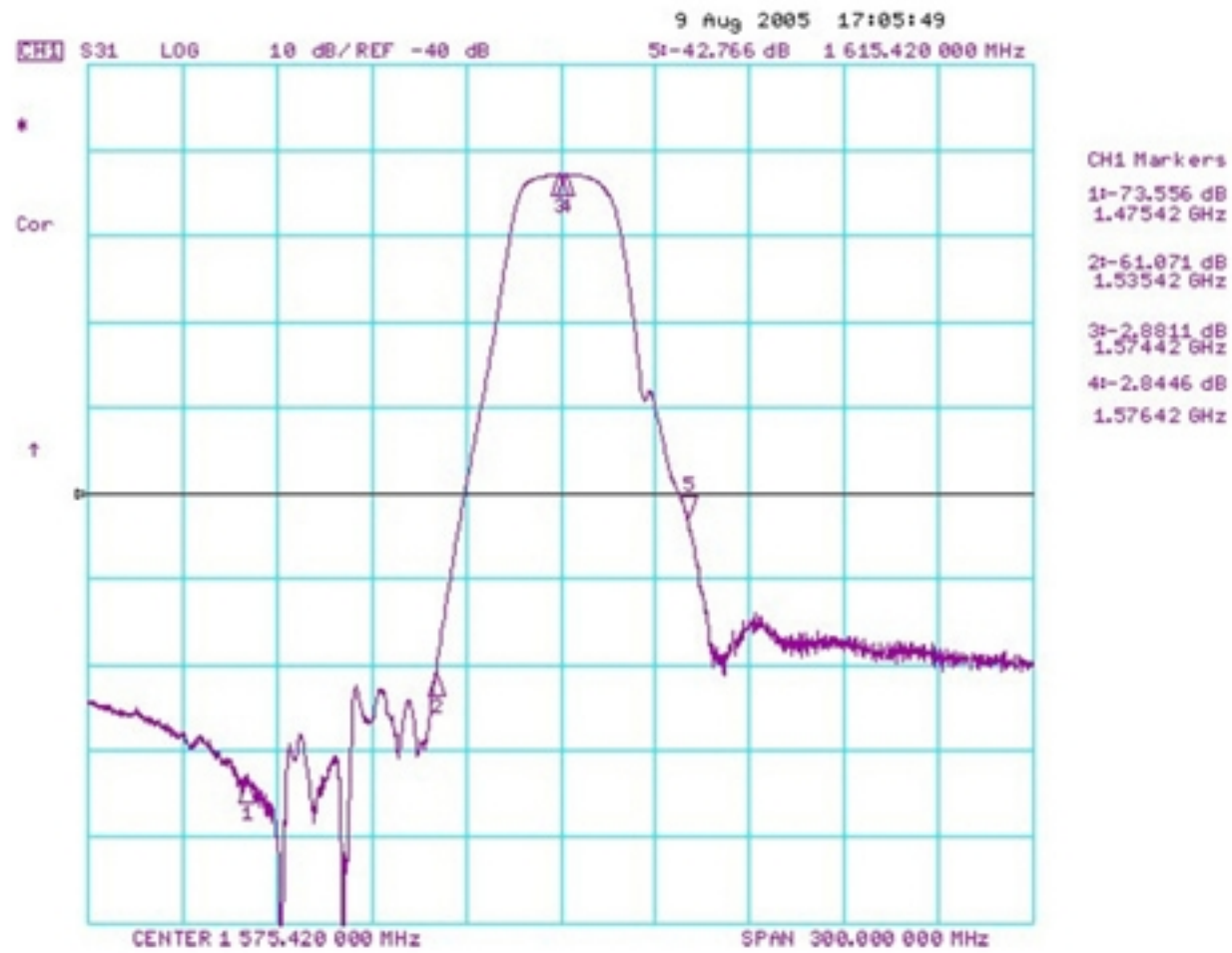
**Date Code Table:**

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

**E. PCB FOOTPRINT:**

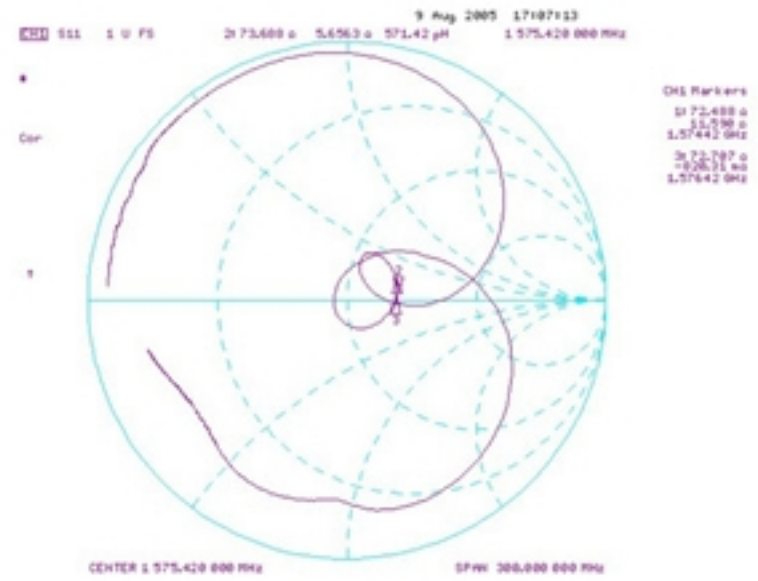
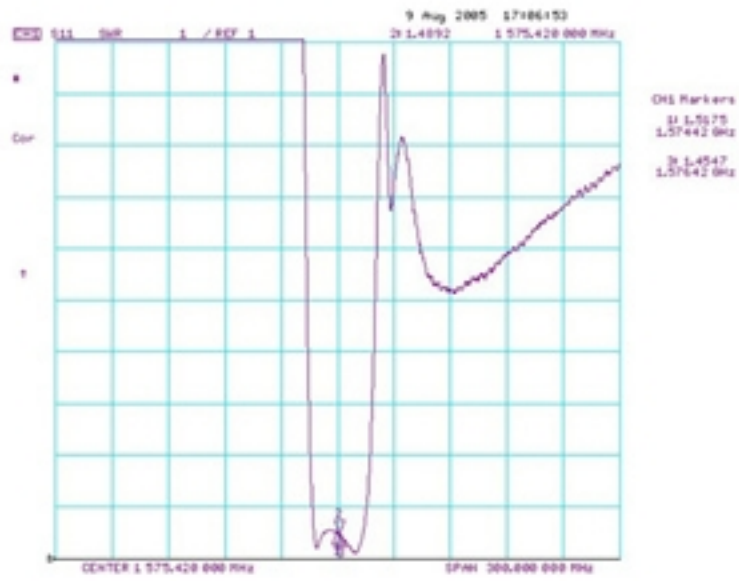


## F. FREQUENCY CHARACTERISTICS: Transfer function

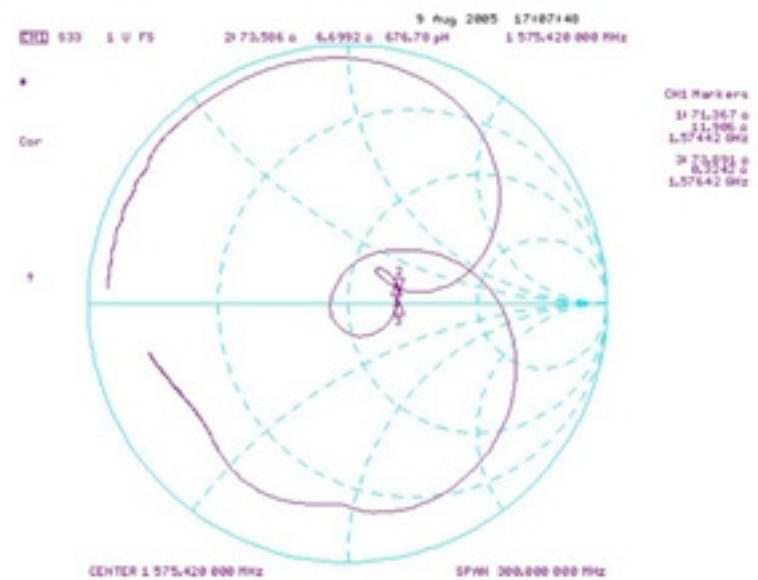
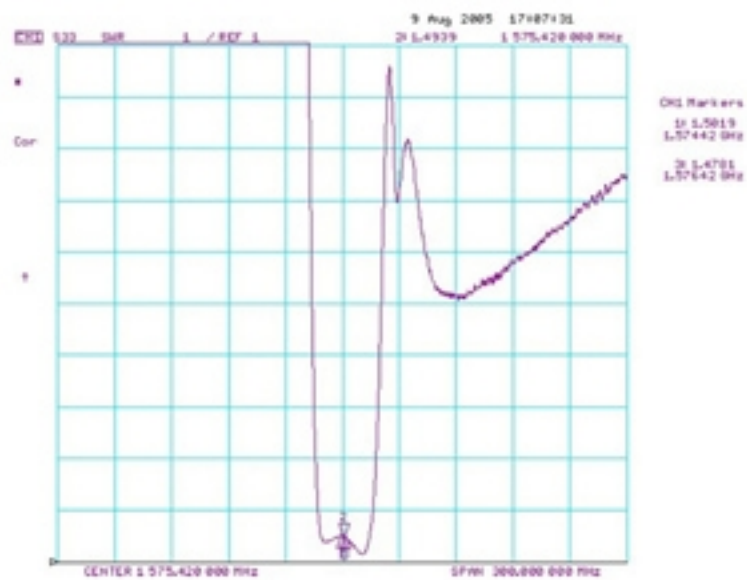


# Reflection Functions :

S11



S22

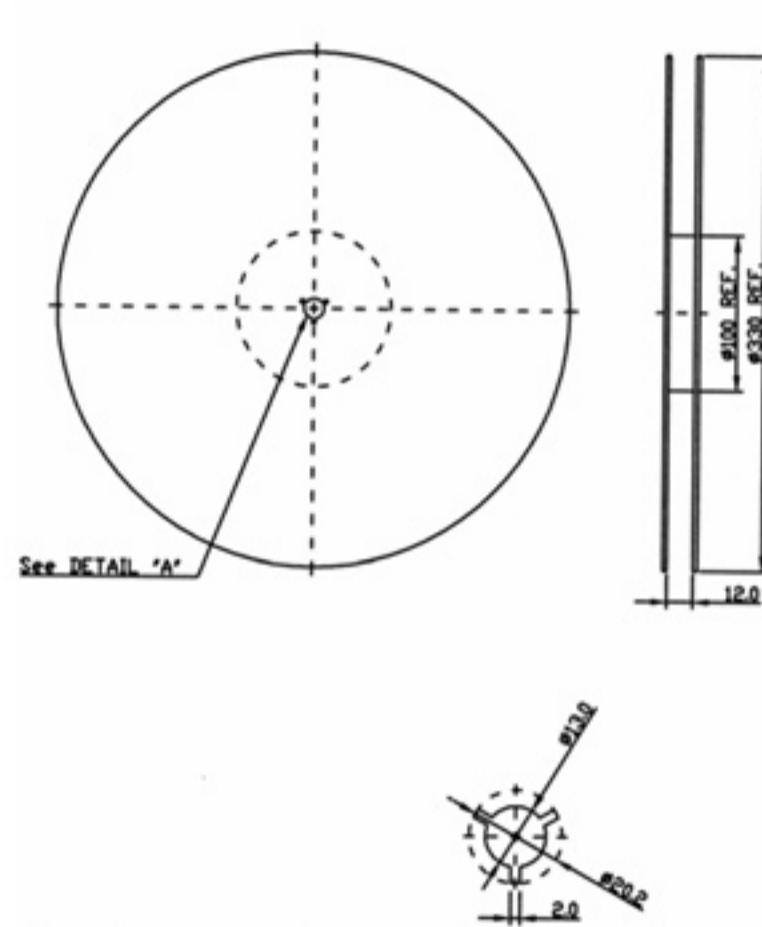




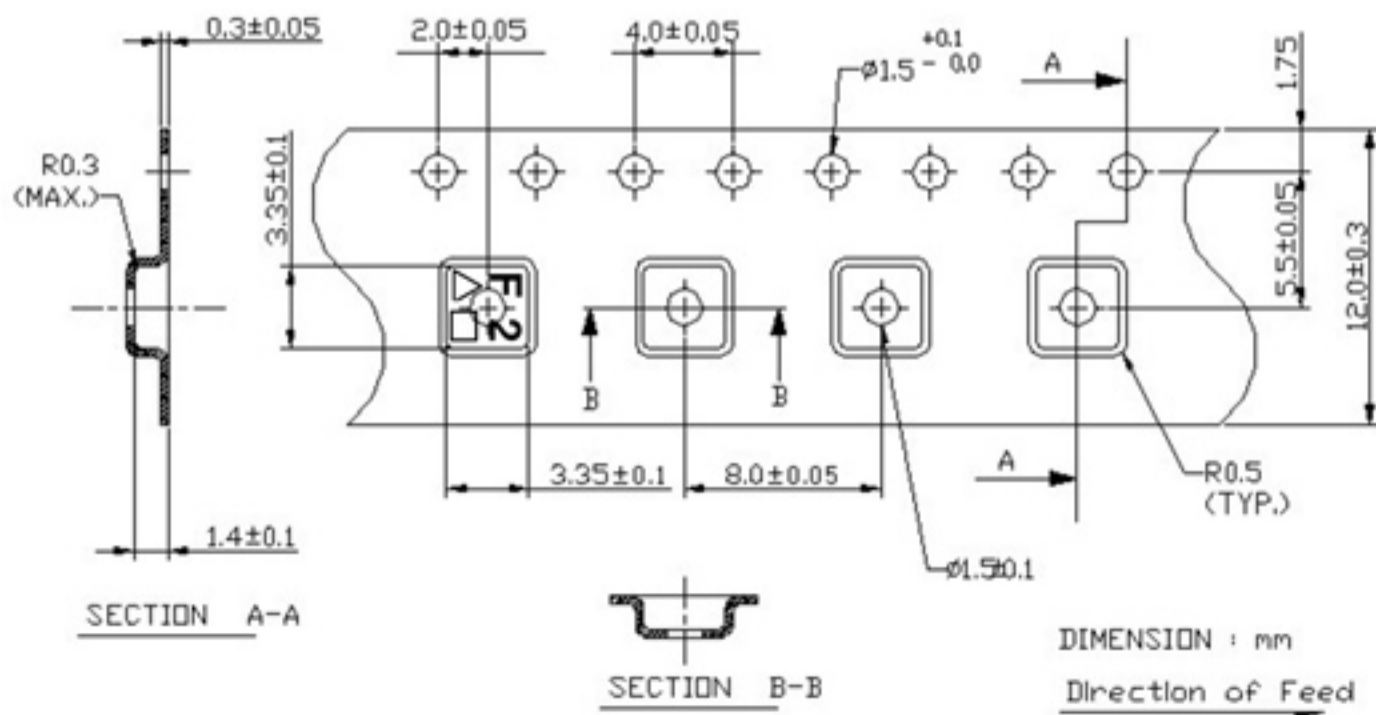
## G. PACKING:

### 1. REEL DIMENSION

(Please refer to FR-75D10 for packing quantity)



### 2. TAPE DIMENSION



## H. RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°C for 60~90 seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

