

# SAW Filter 800 MHz

MODEL NO.: TA0740B

REV. NO.:1

## A. MAXIMUM RATING:

1. Input Power Level: 5 dB<sub>m</sub>
2. DC voltage: 5 V
3. Operating Temperature: -40°C to 85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL 1)
6. ESD 100V(MM) 200V(HBM)

RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

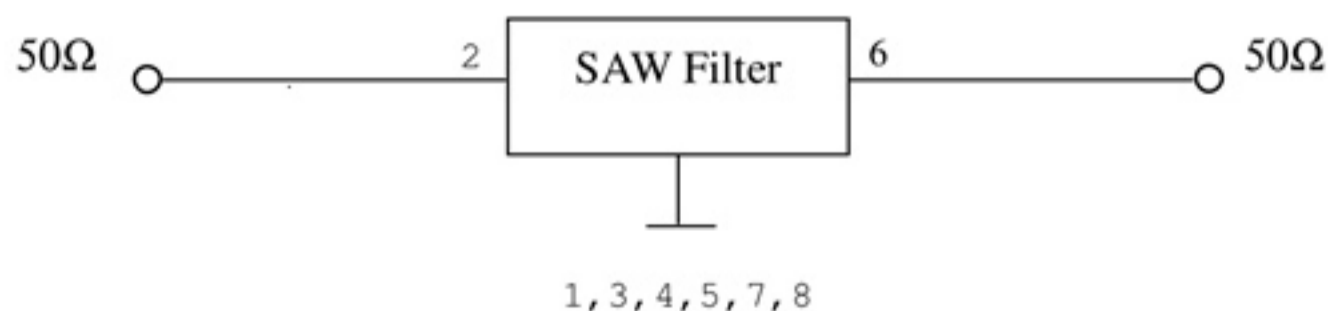
## B. CHARACTERISTICS:

Item				Min.	Typ.	Max.
Center frequency	F <sub>c</sub>	MHz		-	800	-
Insertion loss	790 ~ 810 MHz	IL	dB	-	2.4	3.8
Amplitude ripple	790 ~ 810 MHz		dB	-	0.8	2.0
<b>Attenuation (Reference level from 0dB)</b>						
600 ~ 700		MHz	dB	40	47	-
700 ~ 750		MHz	dB	30	45	-
860 ~ 900		MHz	dB	30	42	-
900 ~ 1000		MHz	dB	38	47	-
Source impedance		Z <sub>s</sub>	Ω	-	50	-
Load impedance		Z <sub>L</sub>	Ω	-	50	-

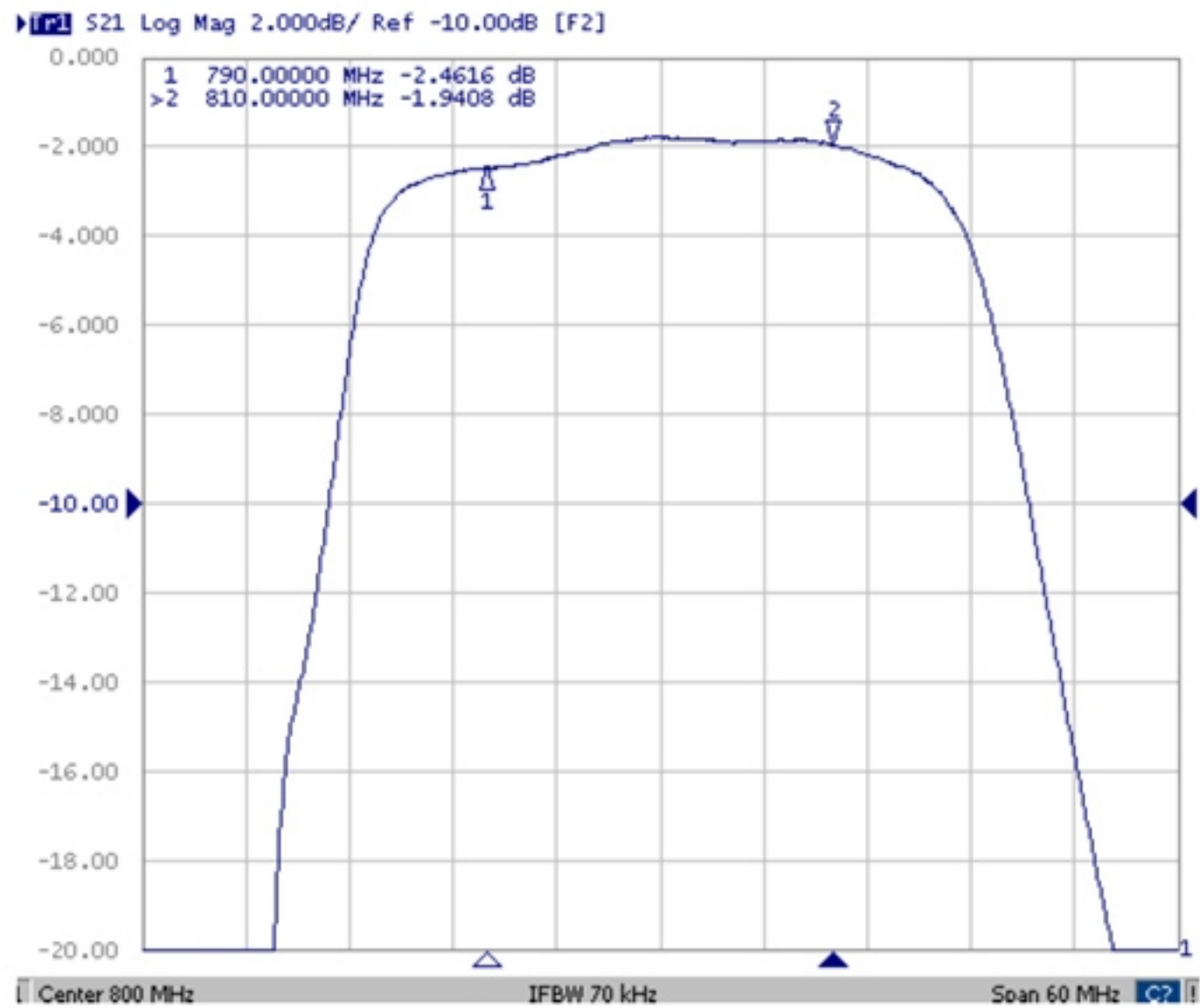
Note1. No matching network required for operation at 50Ω

## C. MEASUREMENT CIRCUIT:

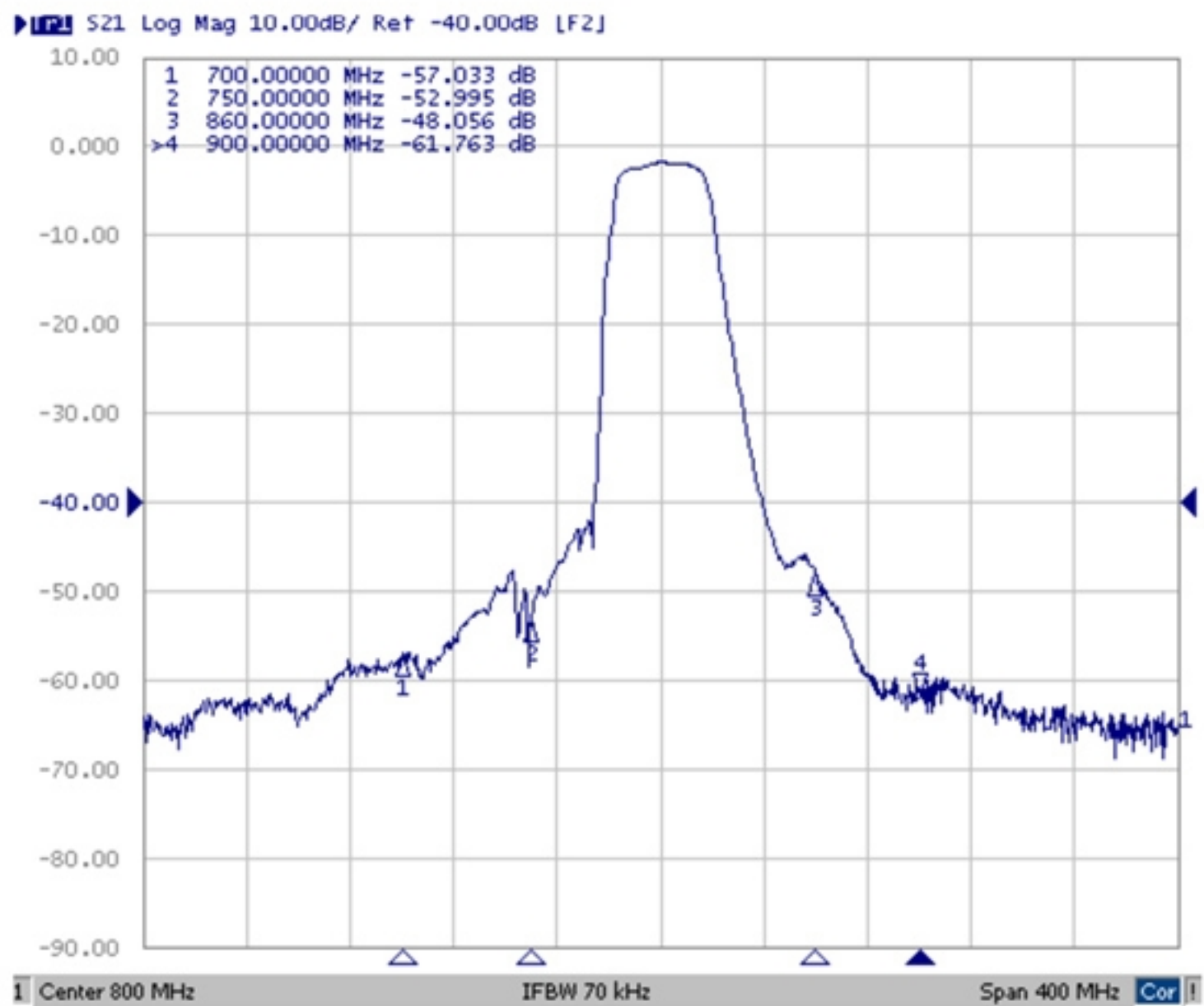
HP Network analyzer



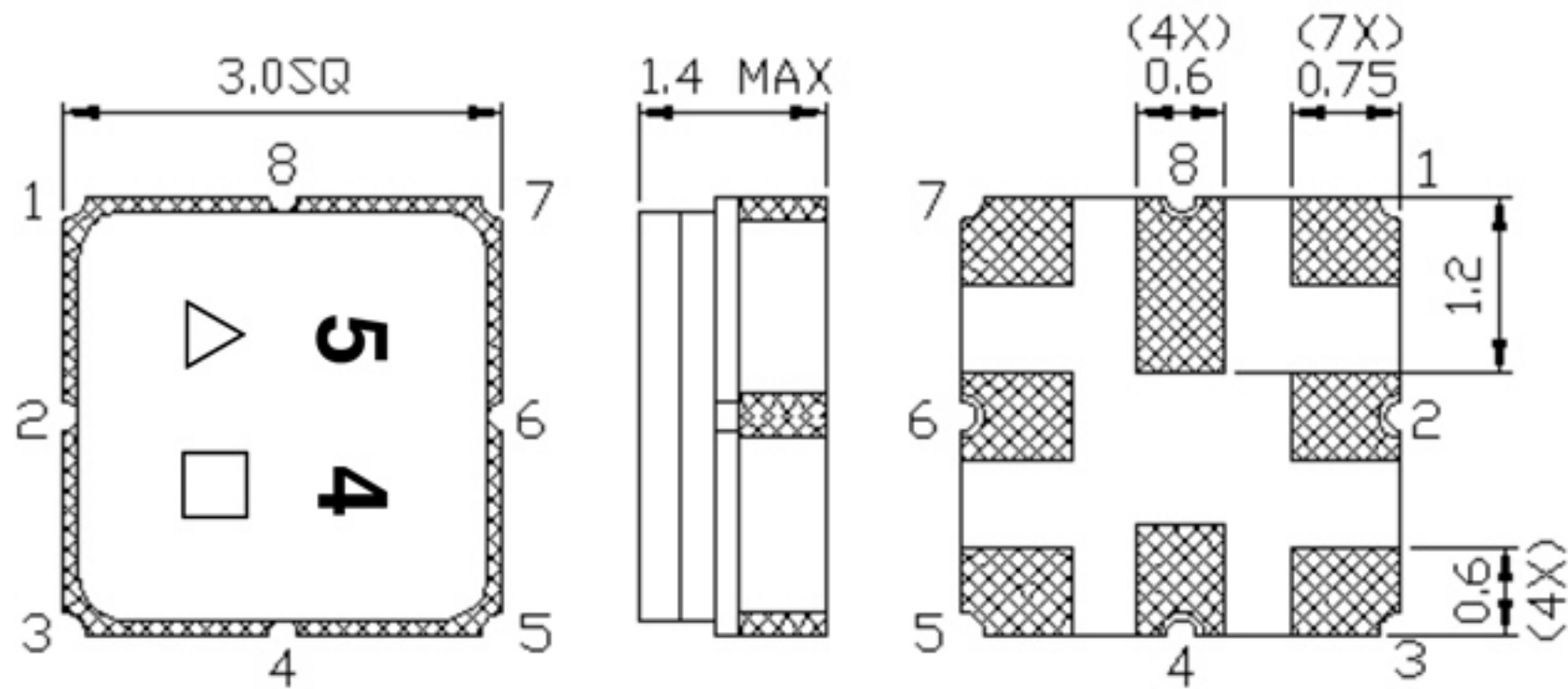
## D. Transfer Function :



## Wideband



**E. OUTLINE DRAWING:**



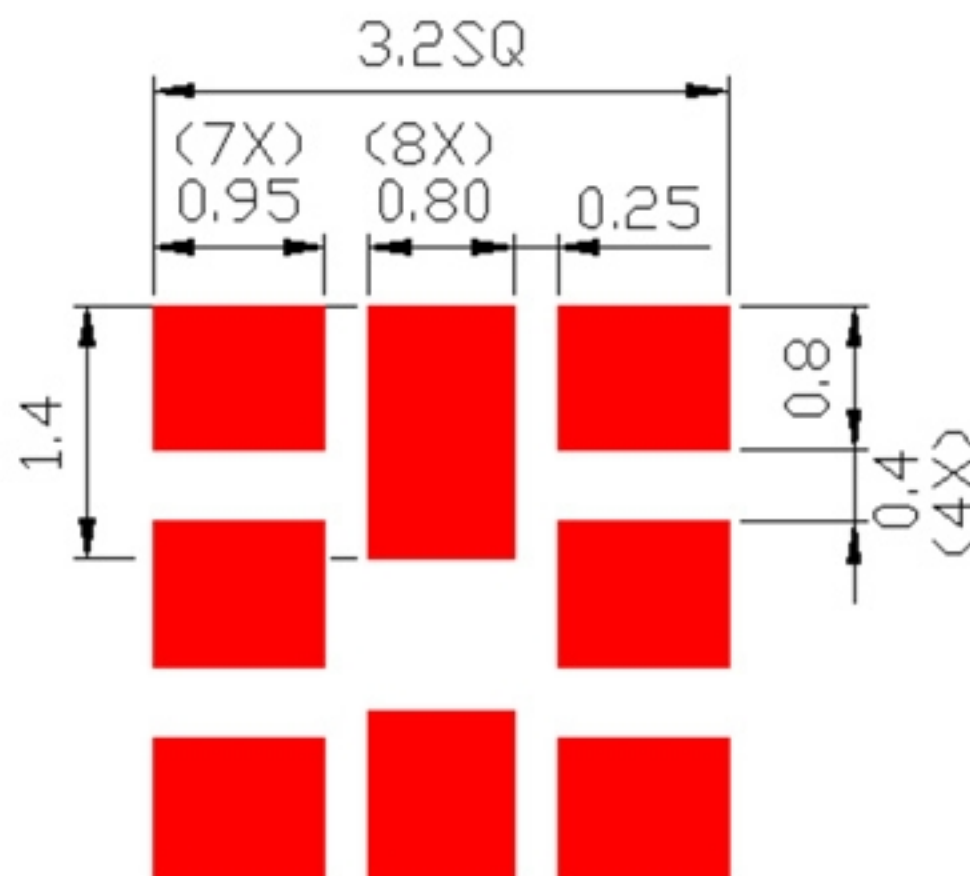
Not Specified Tolerance: +/-0.15mm  
 2: Input  
 6: Output  
 1,3,4,5,7,8: Ground  
 Unit: mm

△ : year code( 2019→9,2020→0, 2029→9.)  
 □ : Date Code (Follow the table from planner each year)

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

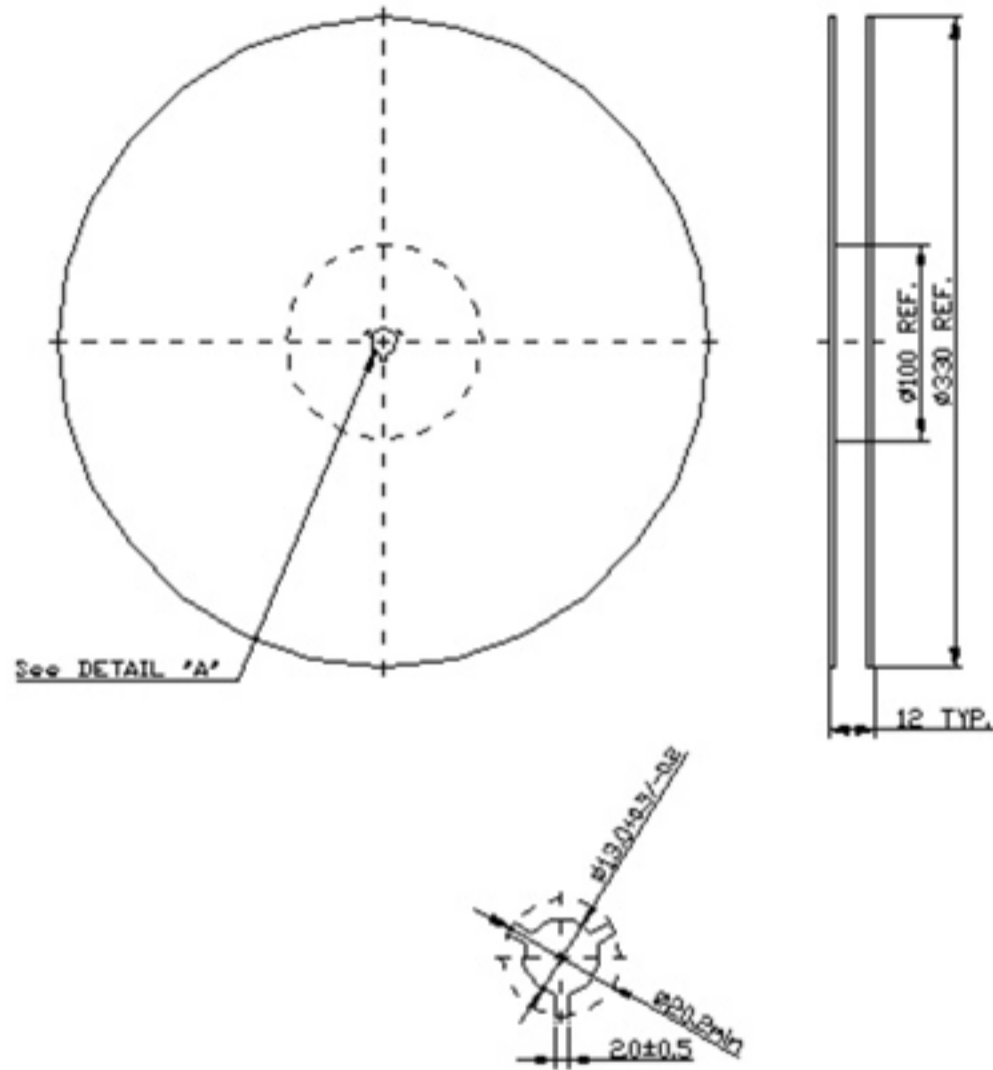
**F. PCB FOOTPRINT:**



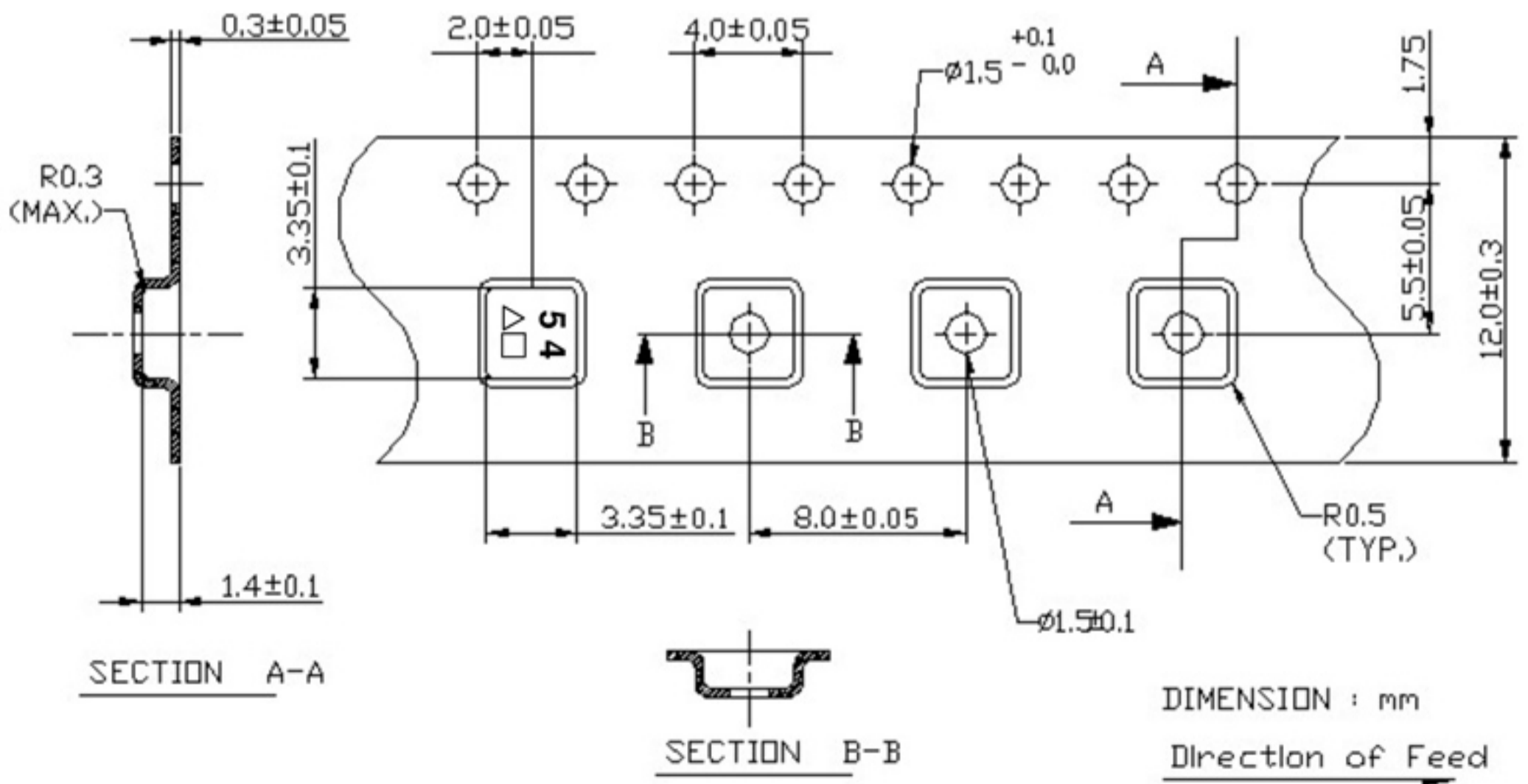
**G. PACKING:**

**1. REEL DIMENSION**

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



**2. TAPE DIMENSION**





## H . RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at  $150\sim 180^{\circ}\text{C}$  for 60~90 seconds.
2. Ascending time to preheating temperature  $150^{\circ}\text{C}$  shall be 30 seconds min.
3. Heating shall be fixed at  $220^{\circ}\text{C}$  for 50~80 seconds and at  $245\sim 260^{\circ}\text{C}$  peak (min. 10sec).
4. Time : 2 times.

