

SAW Filter 942.5 MHz for Mobile Communication

MODEL NO.: TA0218A

REV. NO.:5.0

A. MAXIMUM RATING:

1. Operating Temperature: -20°C ~ +85°C
2. Storage Temperature: -40°C ~ +85°C
3. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS :

Singled to Balanced operation

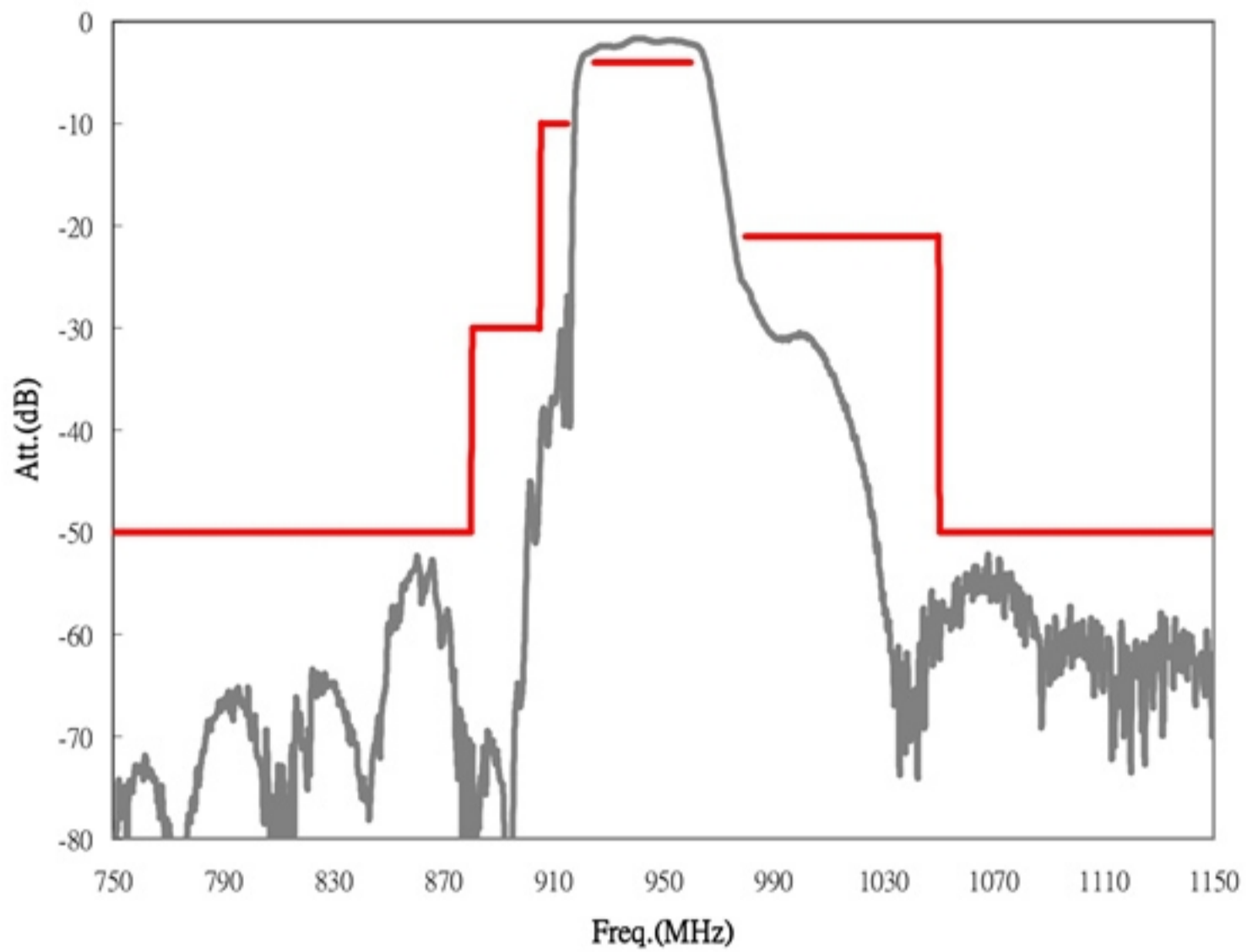
Terminating source impedance : $Z_s = 50 \Omega$

Terminating load impedance : $Z_L = 150 \Omega // 70 \text{ nH}$

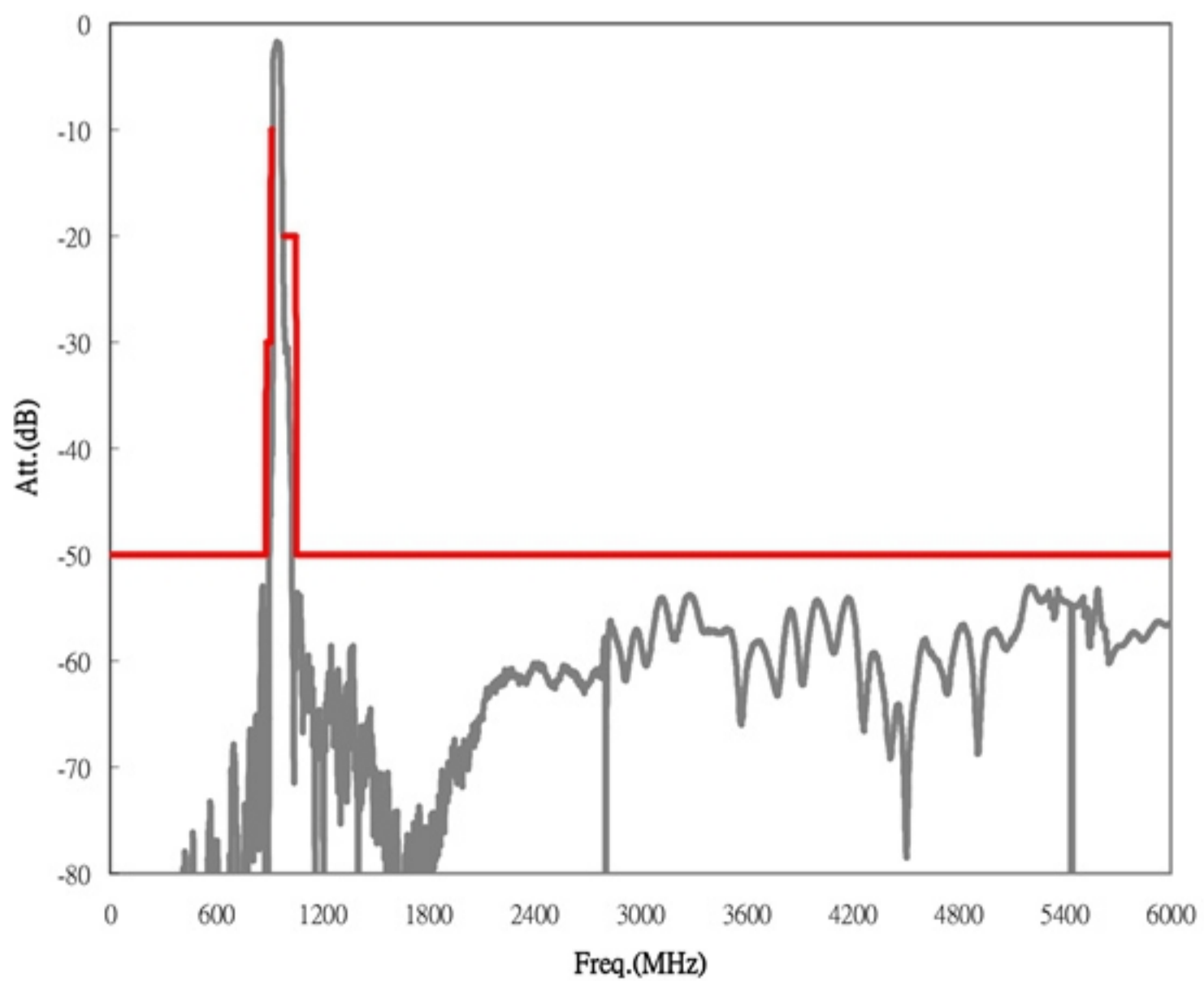
Item	Value			Note
	Min.	Typ.	Max.	
Center frequency F_c MHz	-	942.5	-	-
Insertion loss (925~960 MHz) I.L. (dB)	-	2.8	4.0	-
Ripple (925~960 MHz) (dB)	-	1.0	2.4	-
Input VSWR (925~960 MHz)	-	1.8	2.5	-
Output VSWR (925~960 MHz)	-	1.8	2.5	-
Attenuation: (Reference level from 0 dB)				
0 ~ 880 MHz (dB)	50	52	-	-
880 ~ 905 MHz (dB)	30	44	-	-
905 ~ 915 MHz (dB)	10	27	-	-
980 ~ 1050 MHz (dB)	21	27	-	-
1050 ~ 6000 MHz (dB)	50	54	-	-
Symmetry in band (referenced to the matched operating condition)				
Output amplitude balance ($ S_{31}/S_{21} $) (925~960 MHz) (dB)	-1.3	0	1.3	
Output phase balance ($\Phi(S_{31})-\Phi(S_{21})+180^\circ$) (925~960 MHz) degree	-10	0	10	

C. FREQUENCY CHARACTERISTICS:

1. Transfer function (25 °C)

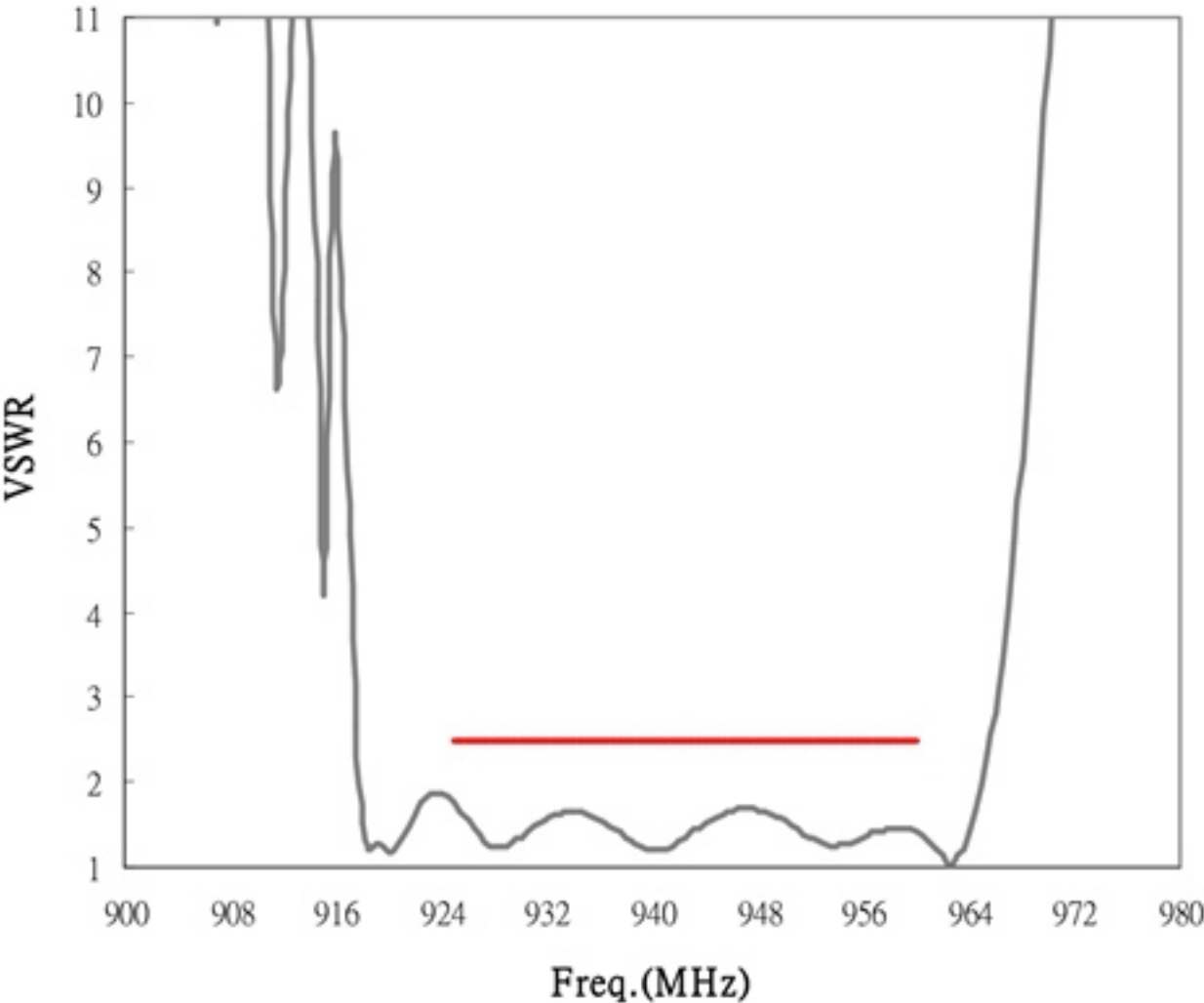


(wideband)

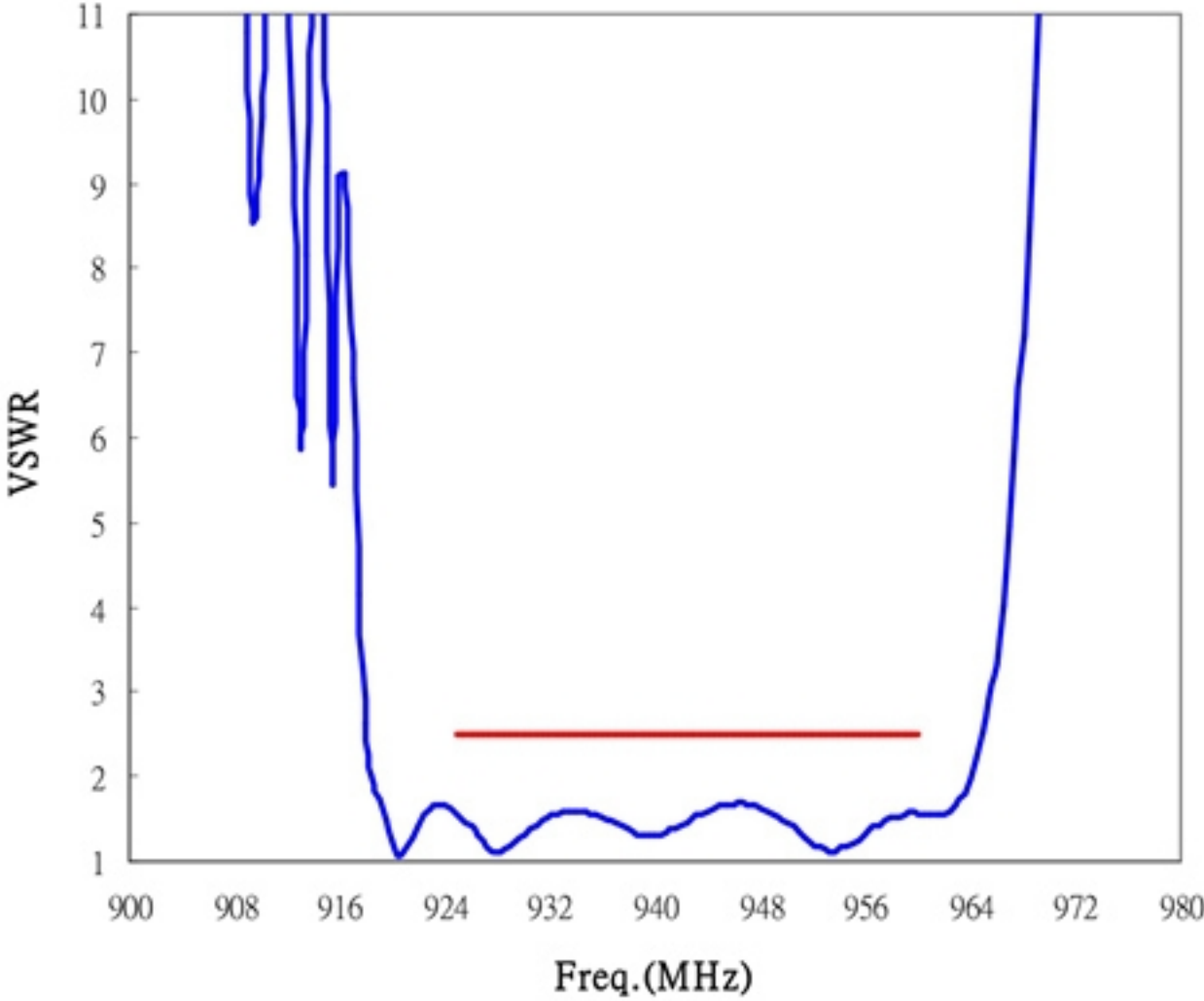


2. VSWR (25 °C)

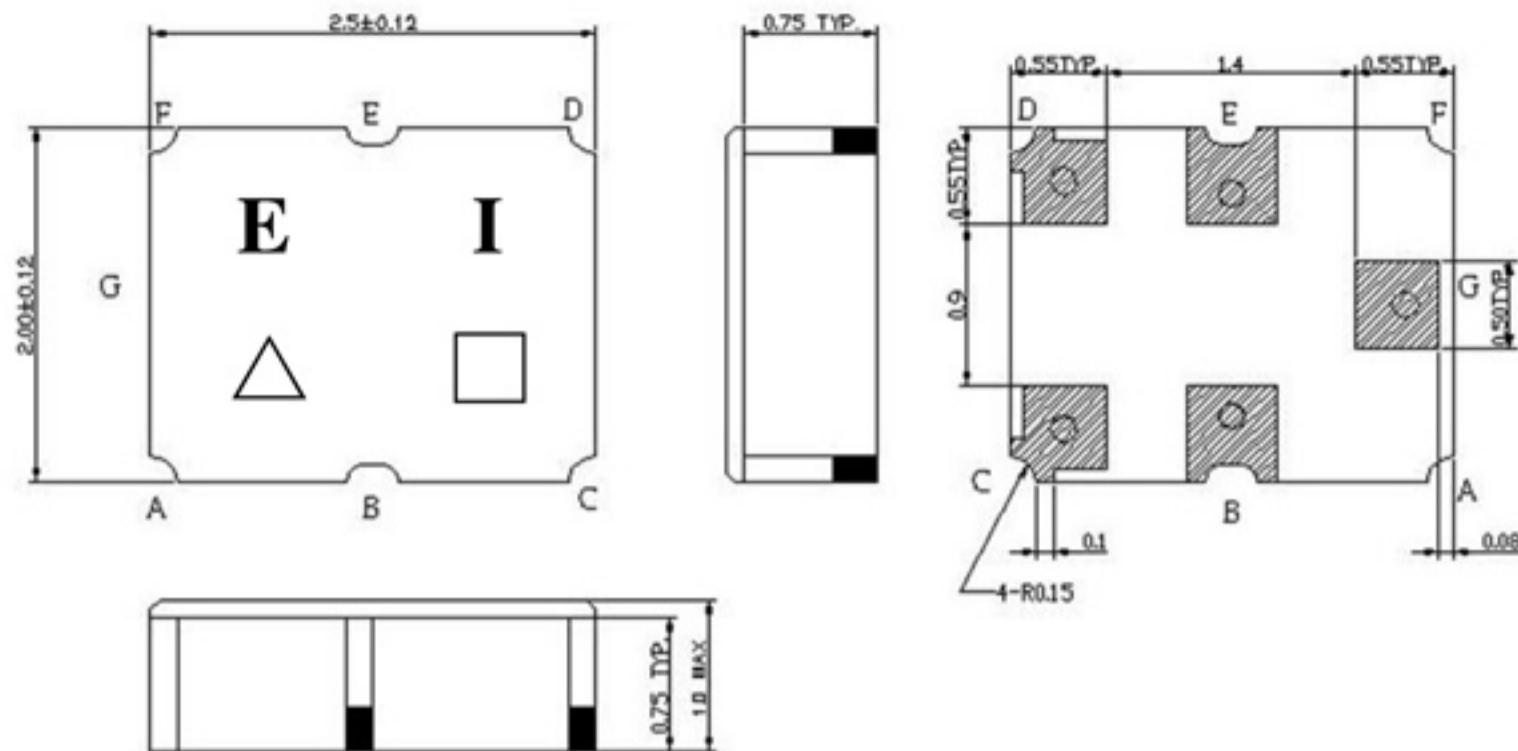
Unbalance Input



Balance Output



D. OUTLINE DRAWING:



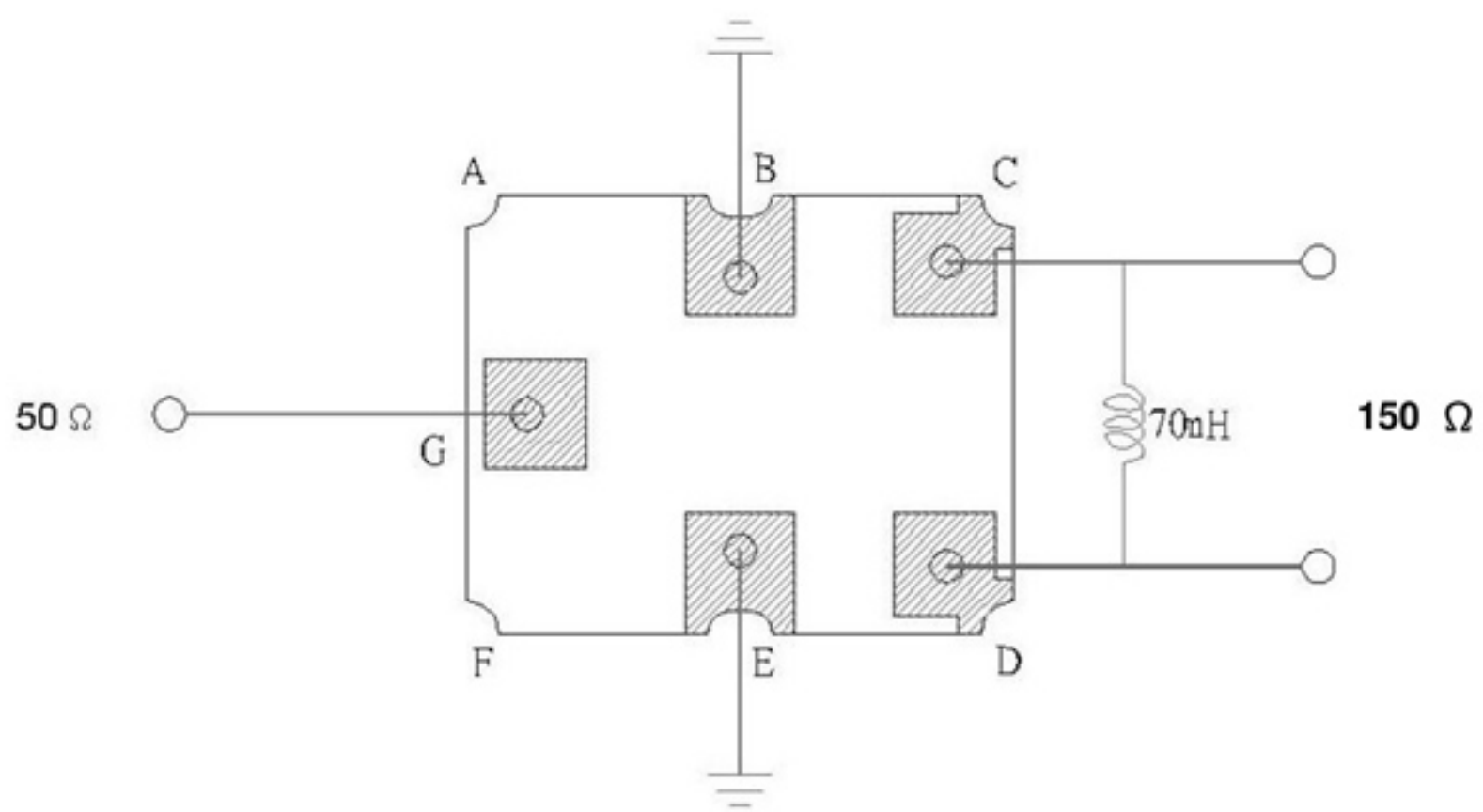
Pin configuration

- G : Unbalance input
- C,D : Balance output
- B,E : Ground
- △ : Year code(2019→9、2020→0...2029→9)
- : Date code
- Unit : mm

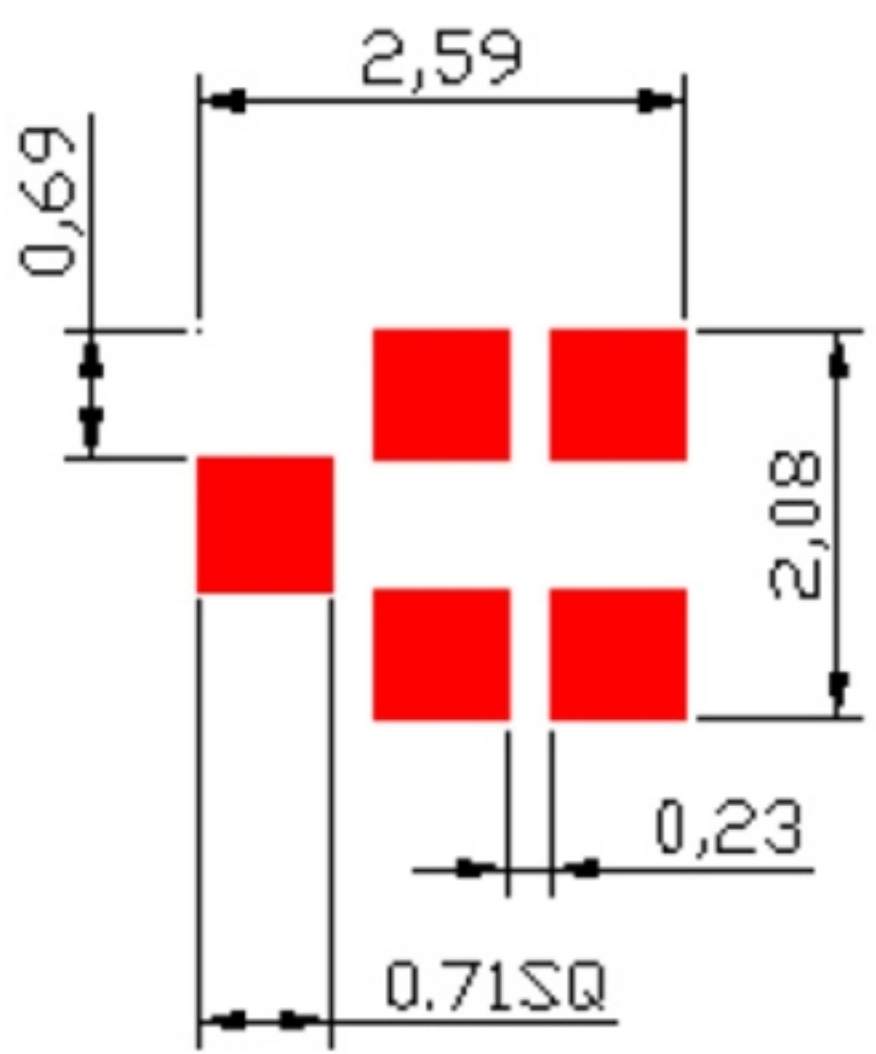
Week Code Table

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. MEASUREMENT CIRCUIT:

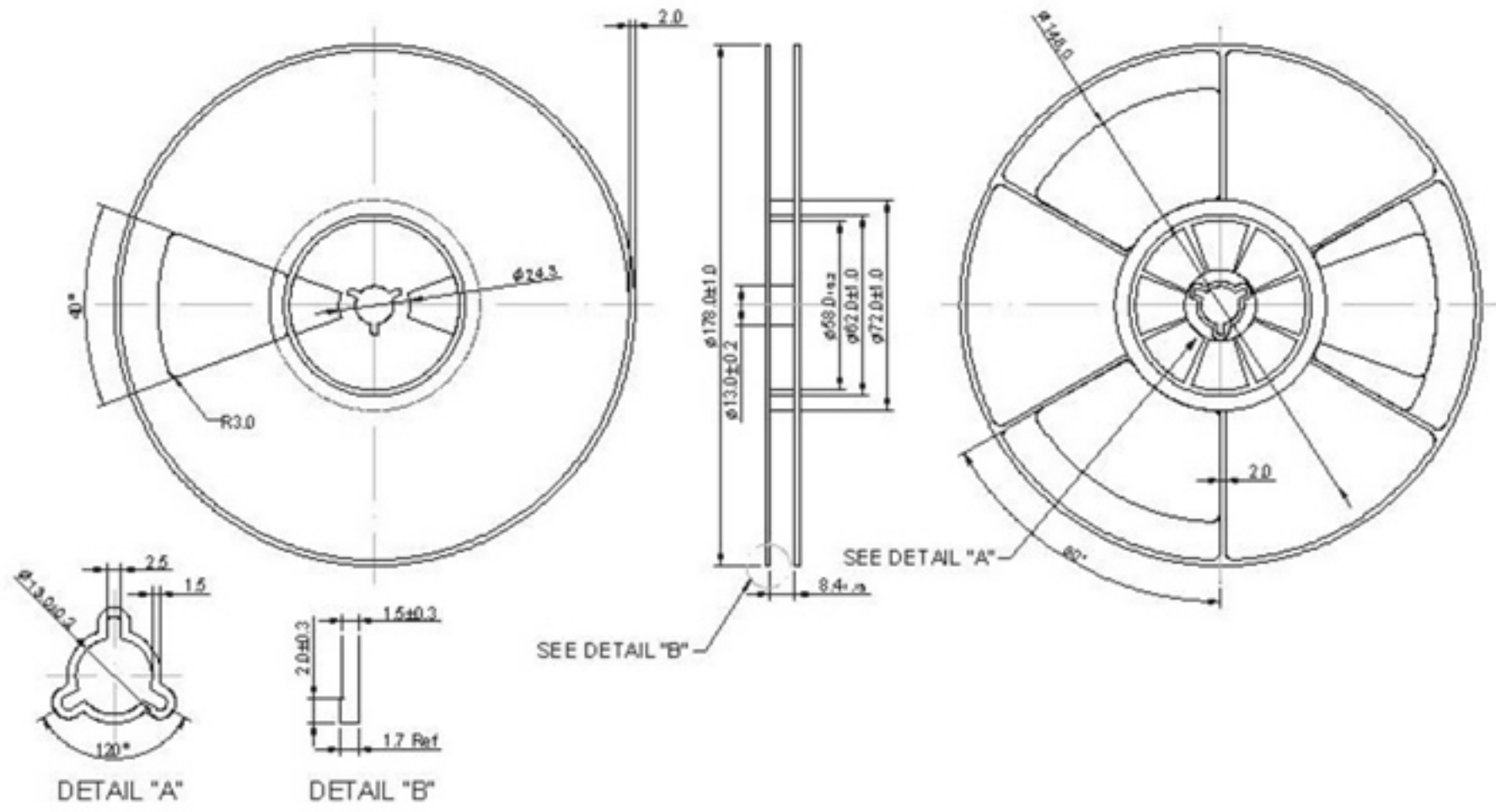


F. PCB FOOTPRINT:

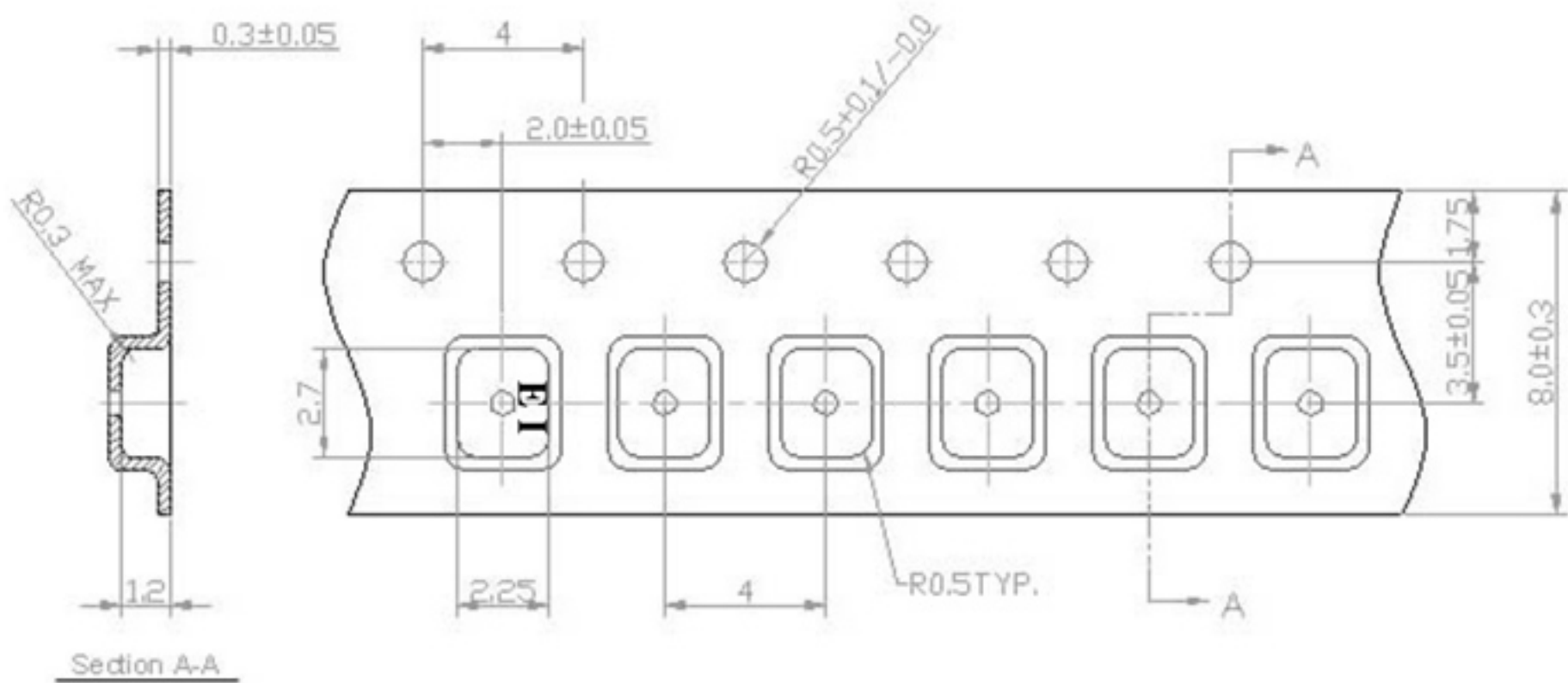


G. PACKING:

1. REEL DIMENSION



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.

