

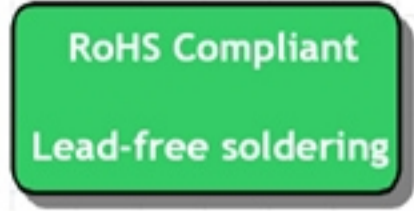
SAW Filter 868 MHz

MODEL NO.:TA1972A

REV. NO.:2

A. MAXIMUM RATING:

1. Input Power Level: +27 dBm
2. DC Voltage : 5 V
3. Operating Temperature: -40 °C to +95 °C
4. Storage Temperature: -40 °C to +105 °C
5. Moisture Sensitivity Level: Level 1(**MSL1**)



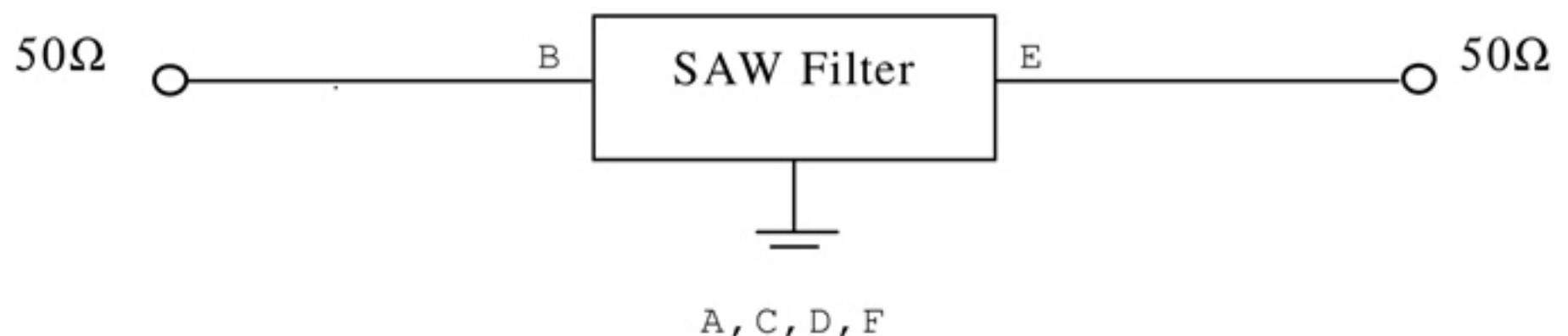
Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

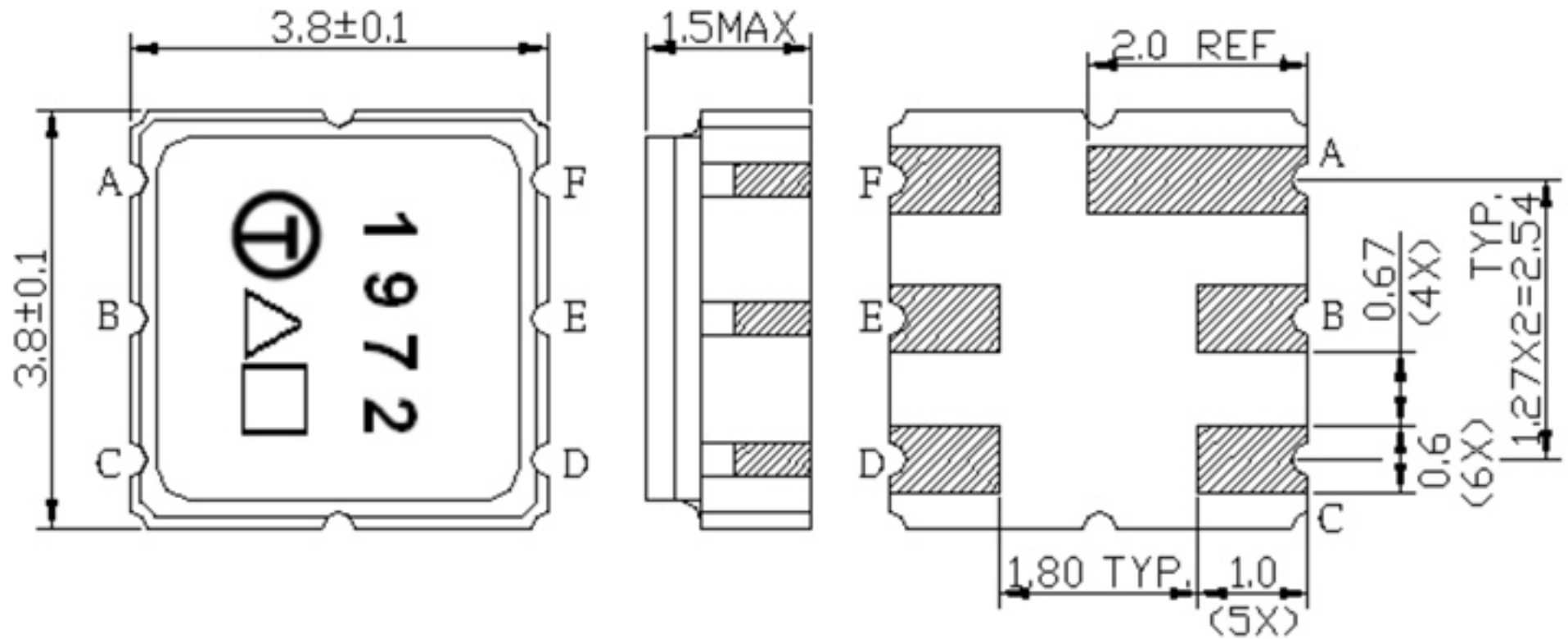
Item	Unit	Min.	Typ.	Max.	
Center frequency Fc	MHz	-	868	-	
Insertion loss (867~869 MHz) IL	dB	-	3.0	4.2	
Amplitude Ripple (867~869 MHz)	dB	-	0.1	1.5	
Group Delay Ripple (867~869 MHz)	ns	-	4	35	
Attenuation (Reference level from 0 dB)					
DC ~ 800 MHz	dB	37	43	-	
800 ~ 838 MHz	dB	35	42	-	
880 ~ 905 MHz	dB	10	31	-	
905 ~ 915 MHz	dB	35	57	-	
915 ~ 970 MHz	dB	38	54	-	
Temperature Coefficient of Frequency	ppm/°C	-	-36	-	

C. MEASUREMENT CIRCUIT:

HP Network analyzer



D. OUTLINE DRAWING:



B: Input

E: Output

A, C, D, F: Ground

Unit: mm

△: Year Code

□: Date Code

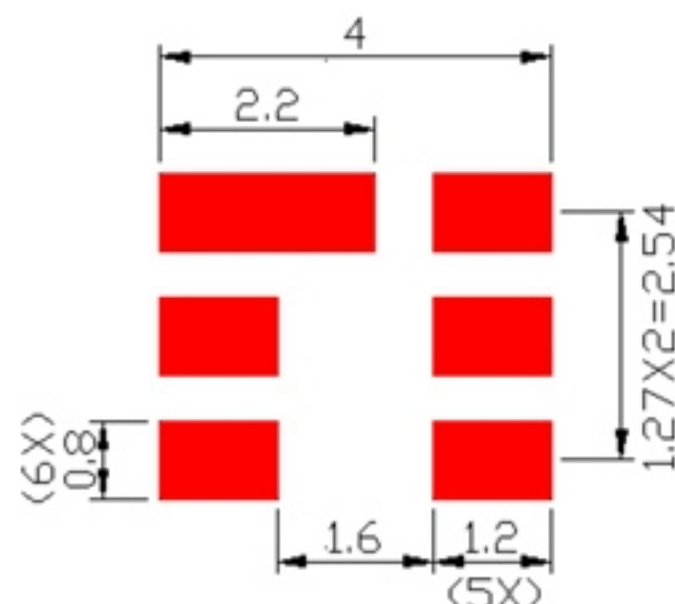
Product Year Code

Year	2019	2020
	2021	2022
	2023	2024
	2025	2026
	Product Code	A

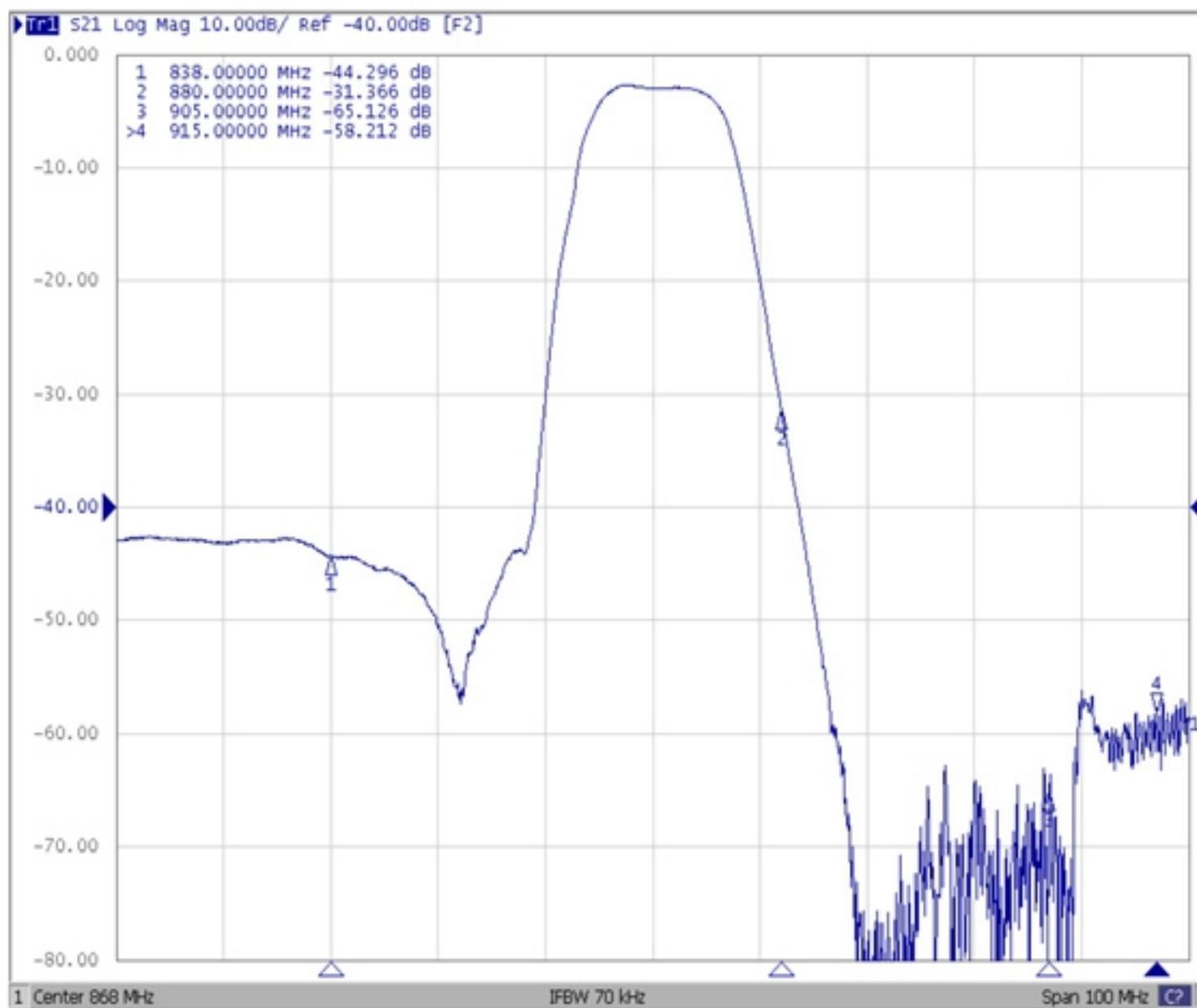
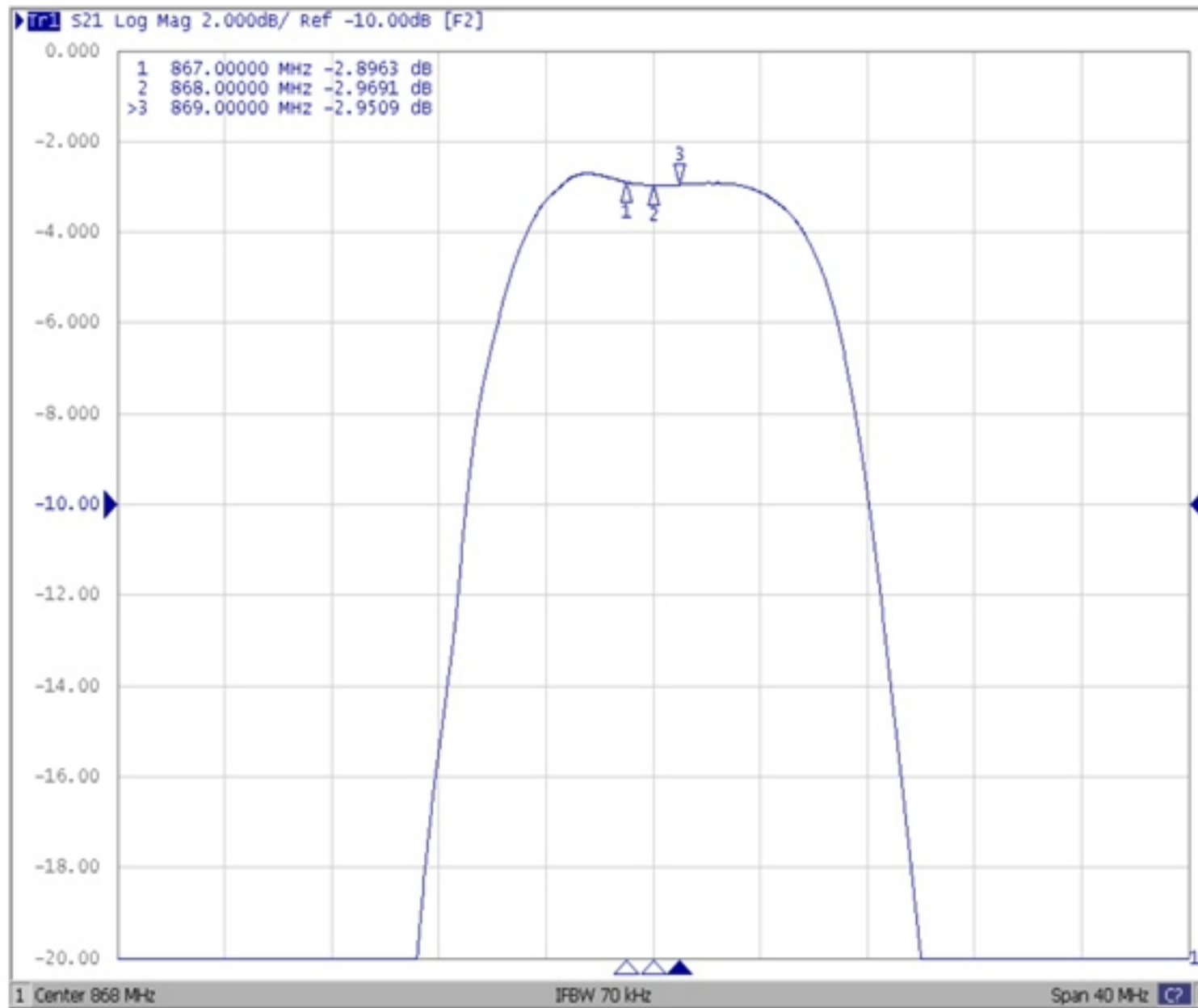
Date Code Table:

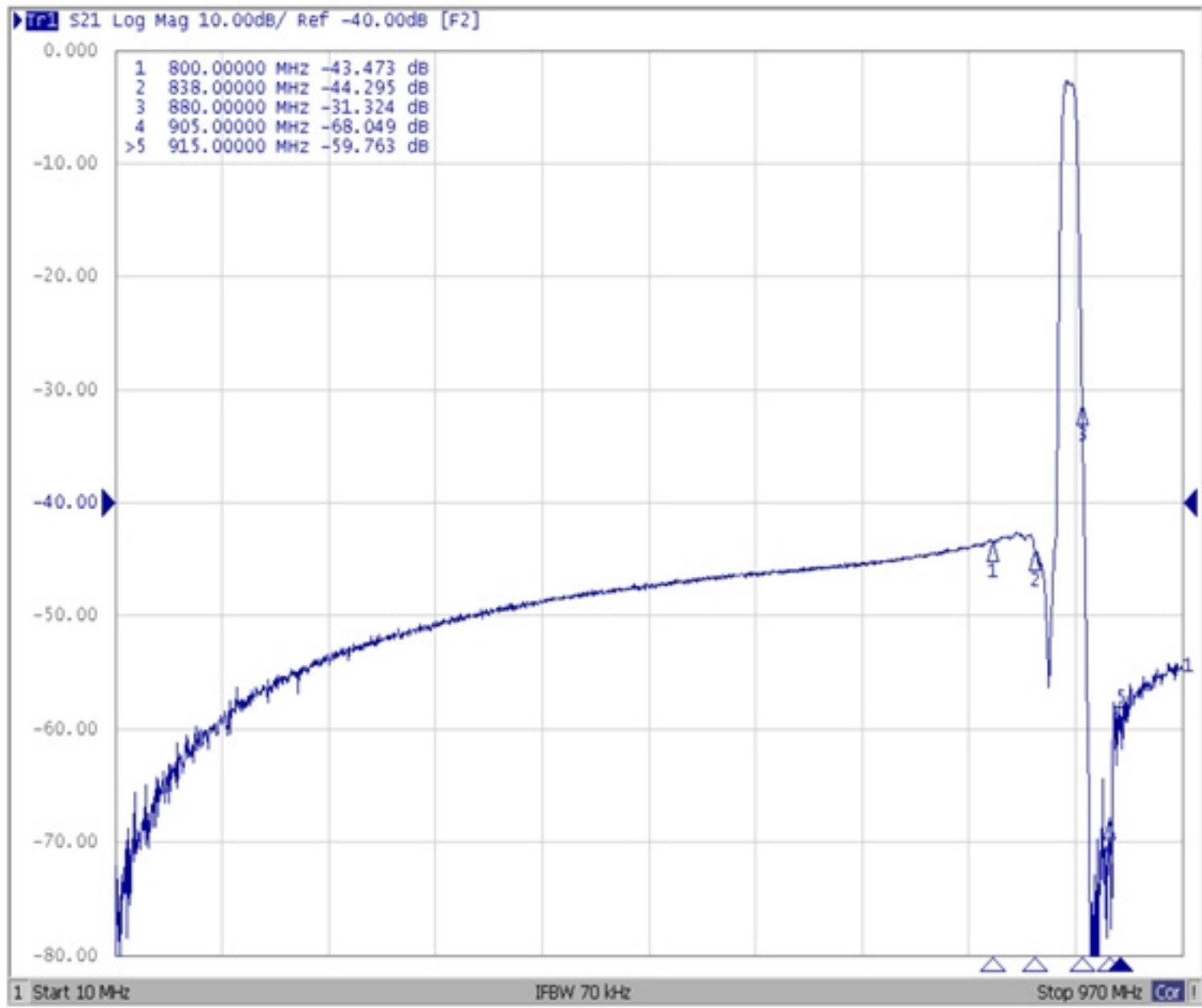
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

E. PCB Footprint

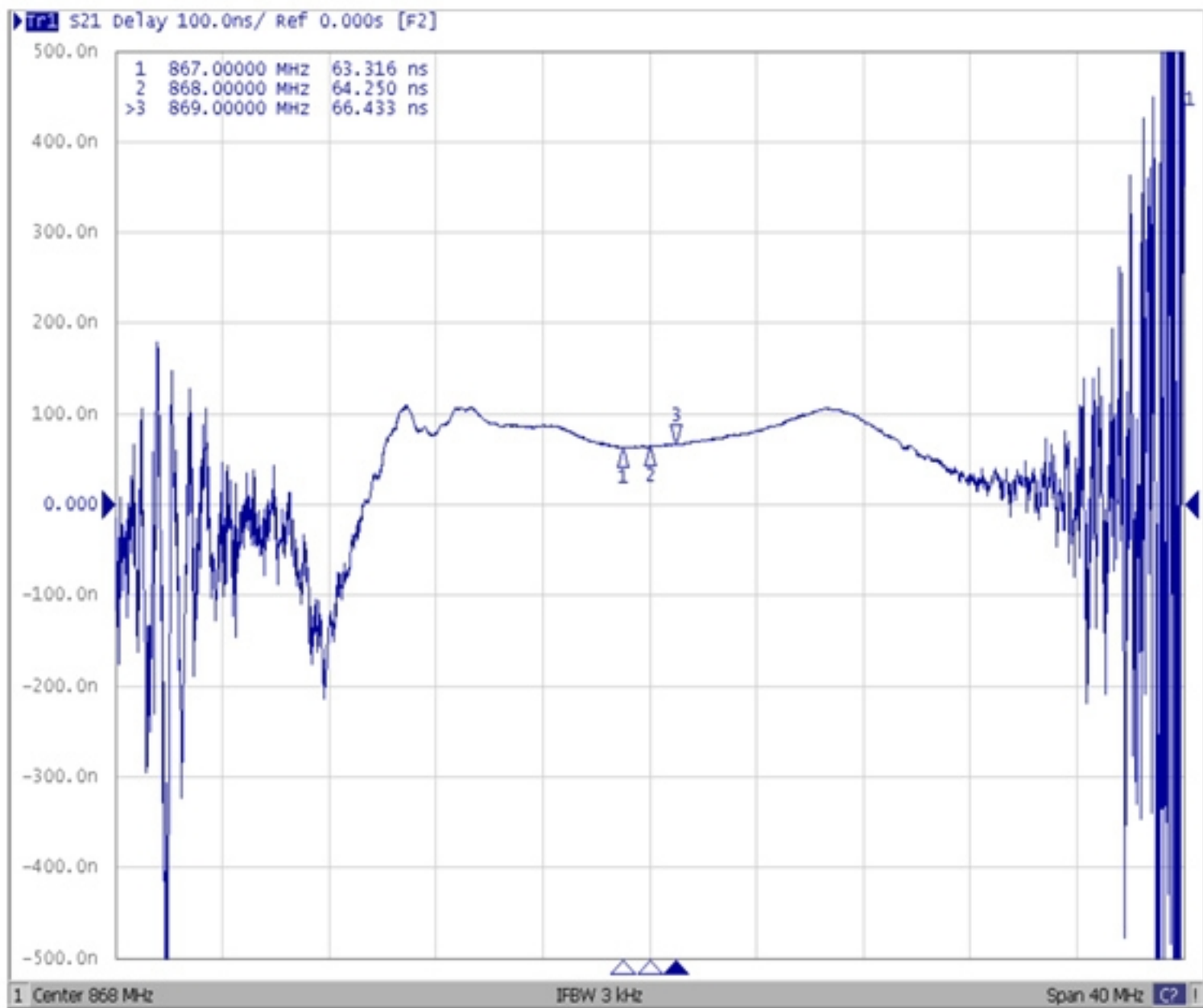


F. Frequency Characteristics:





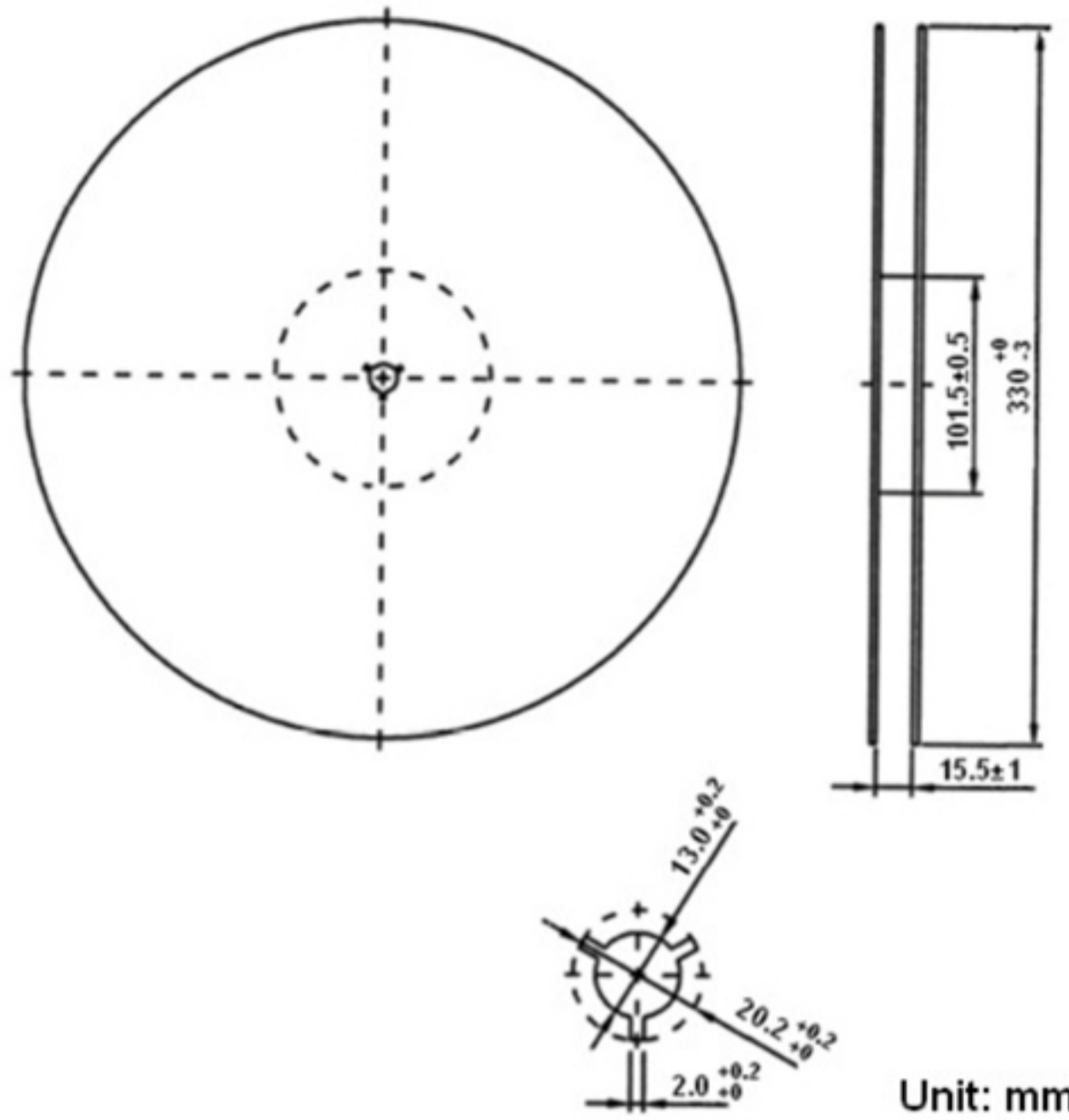
Group Delay



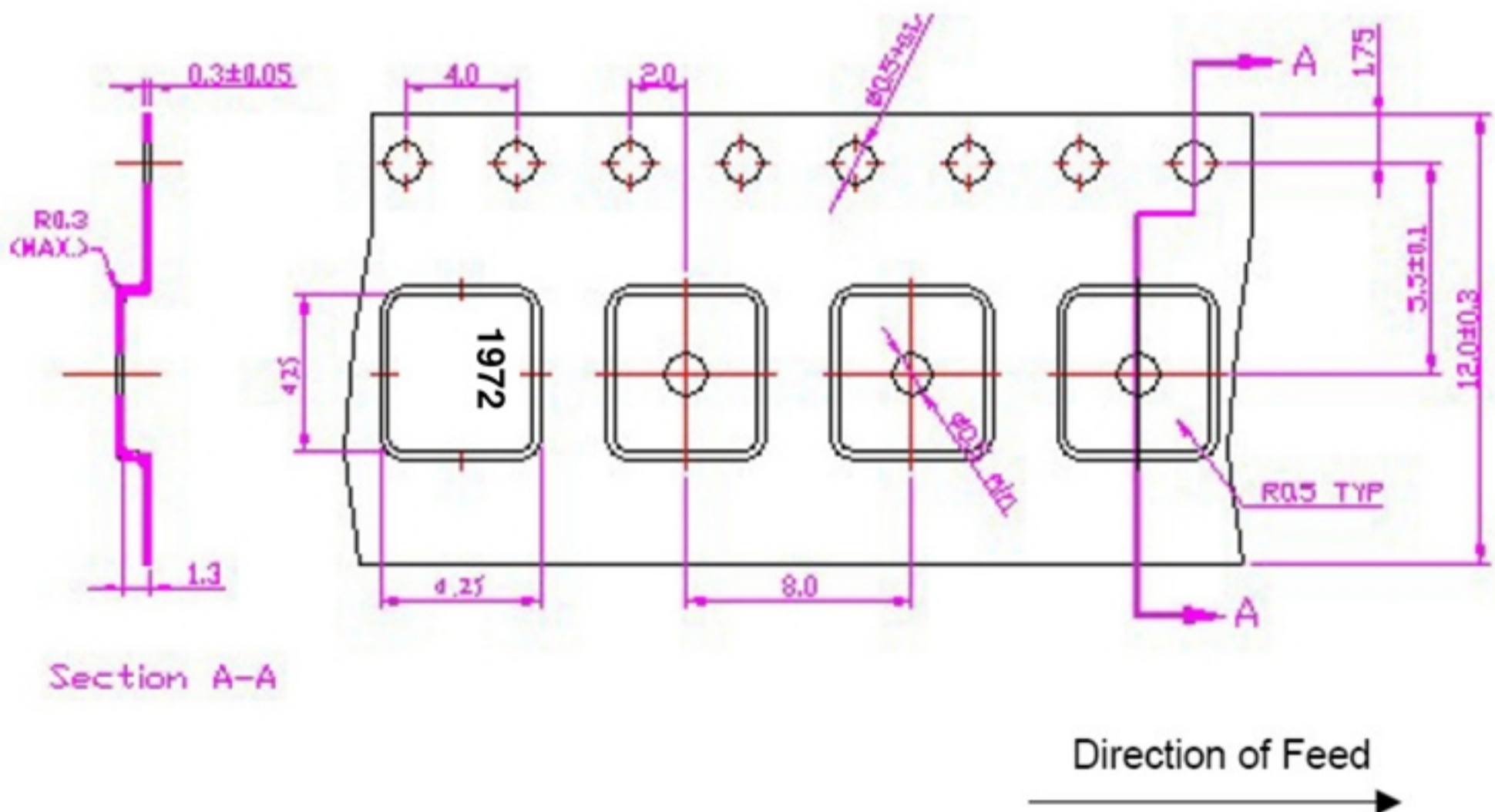
G. PACKING: (Ref. WI-75M03)

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 $60\sim 90$ seconds.
2. Ascending time to preheating temperature 150°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for $50\sim 80$ seconds and at $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$ peak ($20\sim 40\text{sec}$).
4. Time: 2 times.

