

SAW Filter 433.92 MHz

MODEL NO.:TA1884A

REV. NO.: 2.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40 °C to +95 °C
4. Storage Temperature: -40 °C to +95 °C
5. AEC-Q200
6. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

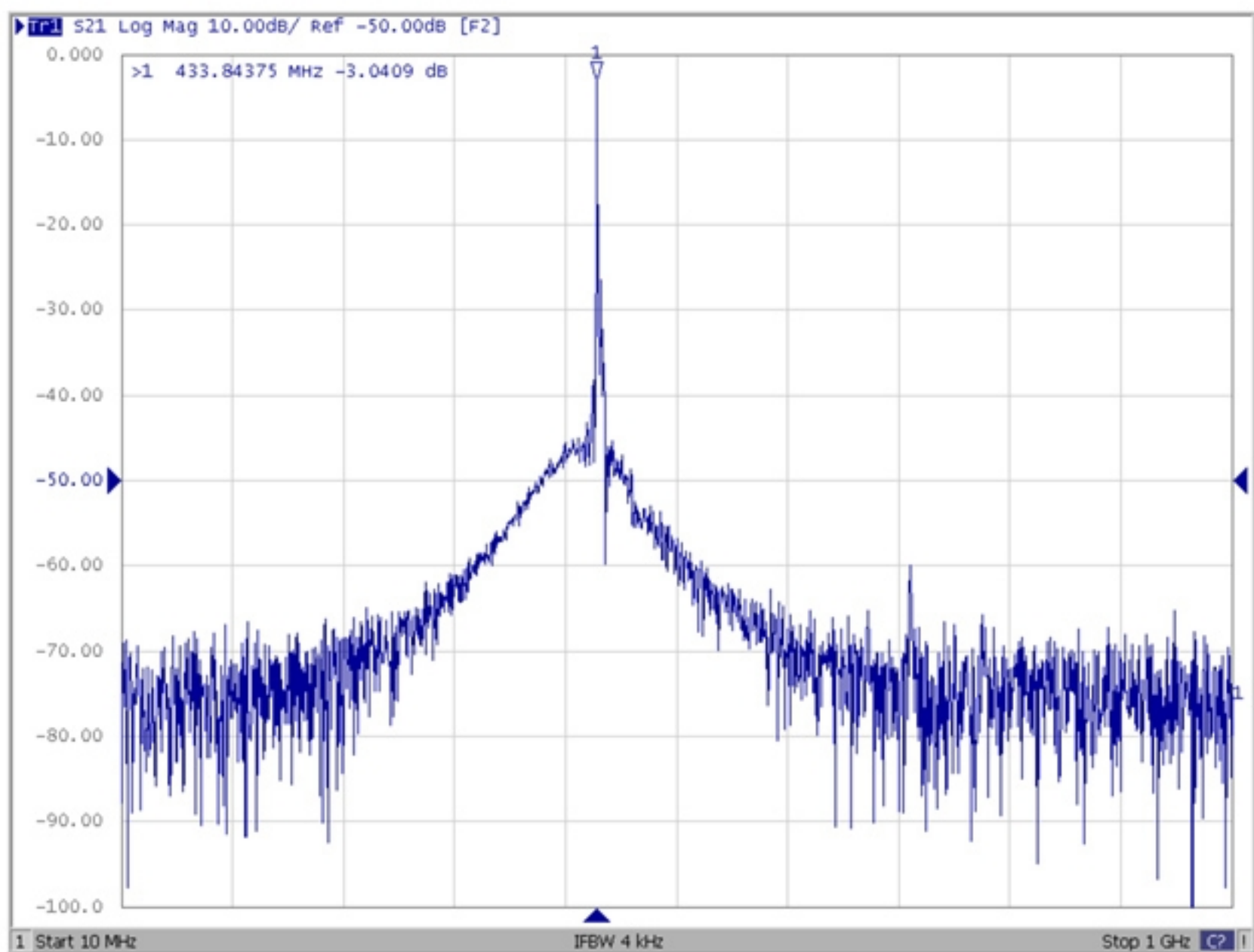
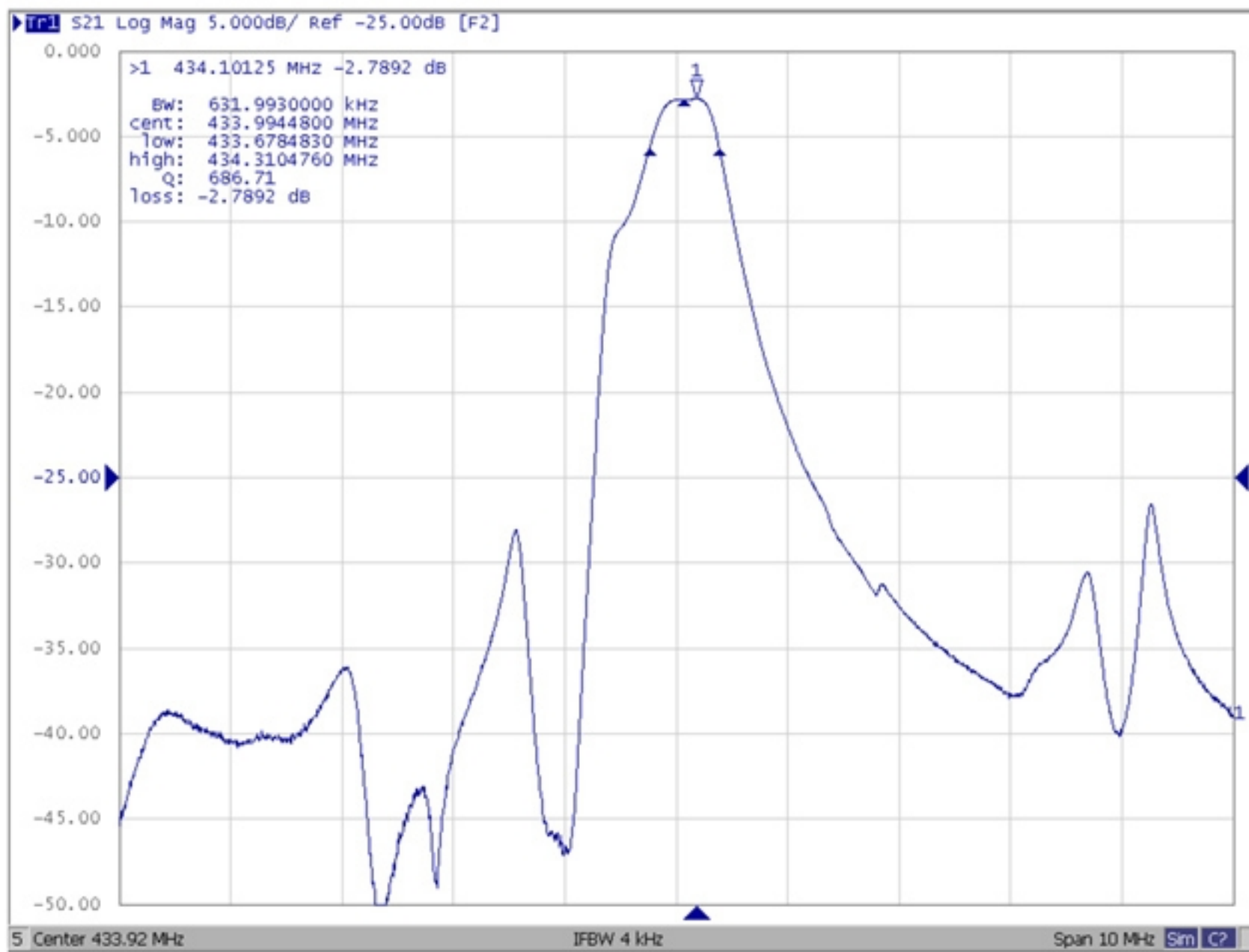
Electrostatic Sensitive Device

B. ELECTRICAL CHARACTERISTICS:

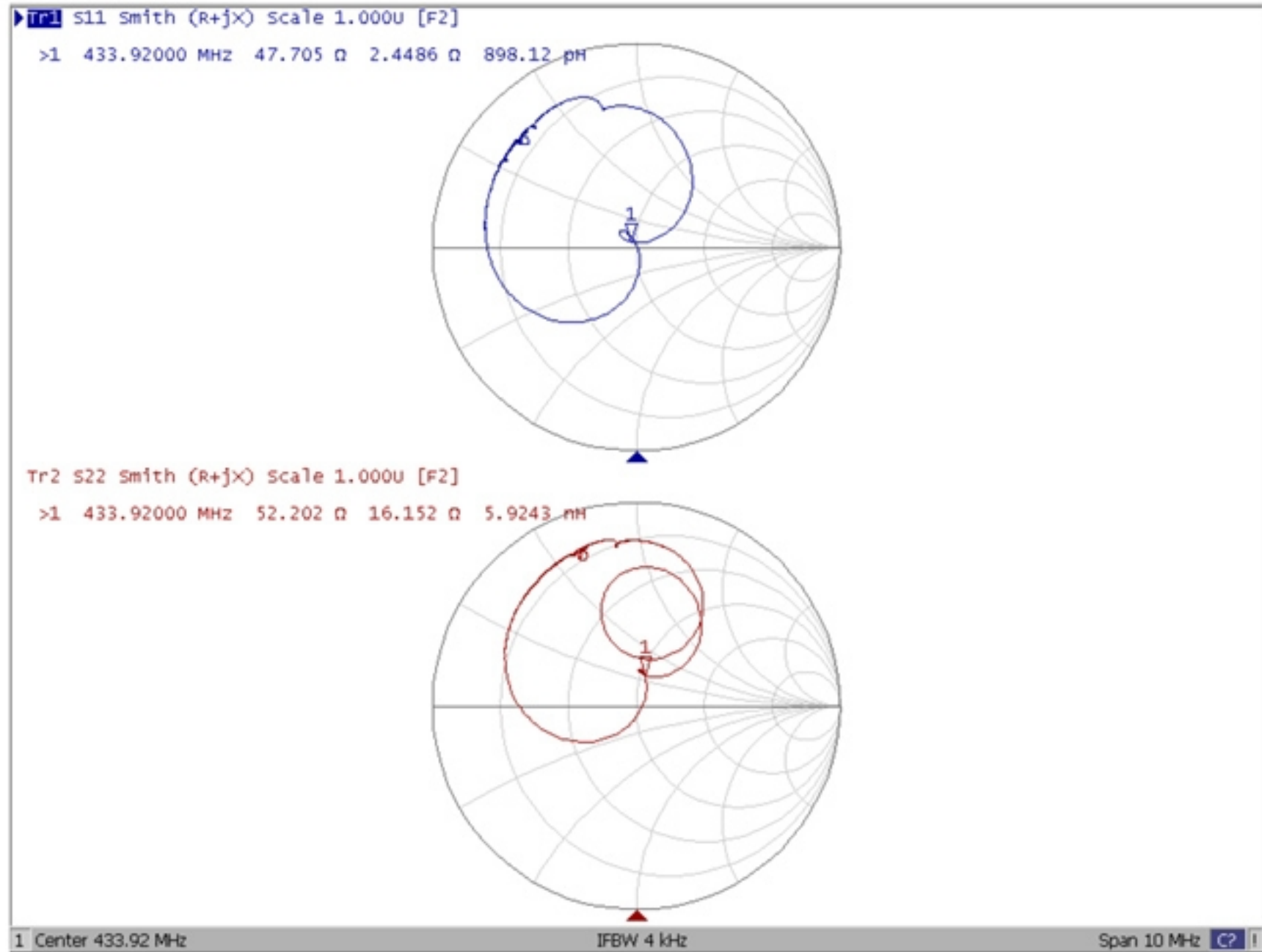
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	433.92	-
3dB BW	MHz	-	0.63	-
Minimum insertion loss IL(min)				
Incl. loss of matching elements(Q=) *1)	dB	-	2.7	3.4
Exclude loss in matching elements *2)	dB	-	2.5	3.2
Passband (relative to IL_{min}) *1)				
433.76 ~ 434.08 MHz	dB	-	0.5	2.0
433.74 ~ 434.10 MHz	dB	-	0.7	3.0
433.70 ~ 434.14 MHz	dB	-	1.2	6.0
Attenuation (relative to IL_{min}) *1)				
10.000 ~ 414.00 MHz	dB	38	43	-
414.00 ~ 423.50 MHz	dB	38	43	-
423.50 ~ 431.72 MHz	dB	29	34	-
431.72 ~ 432.12 MHz	dB	26	36	-
432.12 ~ 433.10 MHz	dB	10	24	-
434.70 ~ 434.92 MHz	dB	10	17	-
434.92 ~ 442.00 MHz	dB	13	21	-
442.00 ~ 500.00 MHz	dB	40	44	-
500.00 ~ 700.00 MHz	dB	50	54	-
700.00 ~ 805.00 MHz	dB	45	55	-
805.00 ~ 1000.00 MHz	dB	60	70	-
Impedance at Fc, Input *1) Z_{in} = R_{in}//C_{in} Z_s	Ω//pF	184.5Ω//3.6 pF		
Impedance at Fc, Output *1) Z_{out} = R_{out}//C_{out} Z_L	Ω//pF	184.5Ω//3.6 pF		

*1) : The matching circuit is real by actual passive components.
0805 Coilcraft CS series chip conductor is used for inductor.
0402 muRata GRM series is used for capacitor.

C. FREQUENCY CHARACTERISTICS:

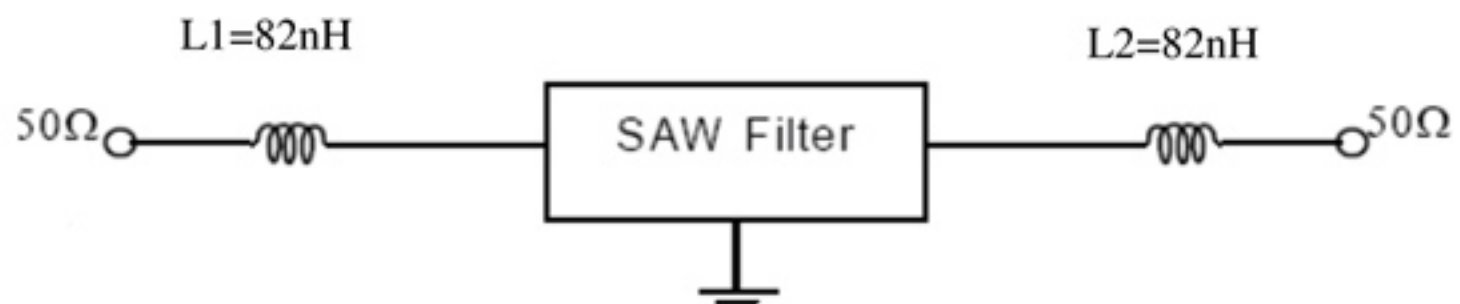


Smith Chart

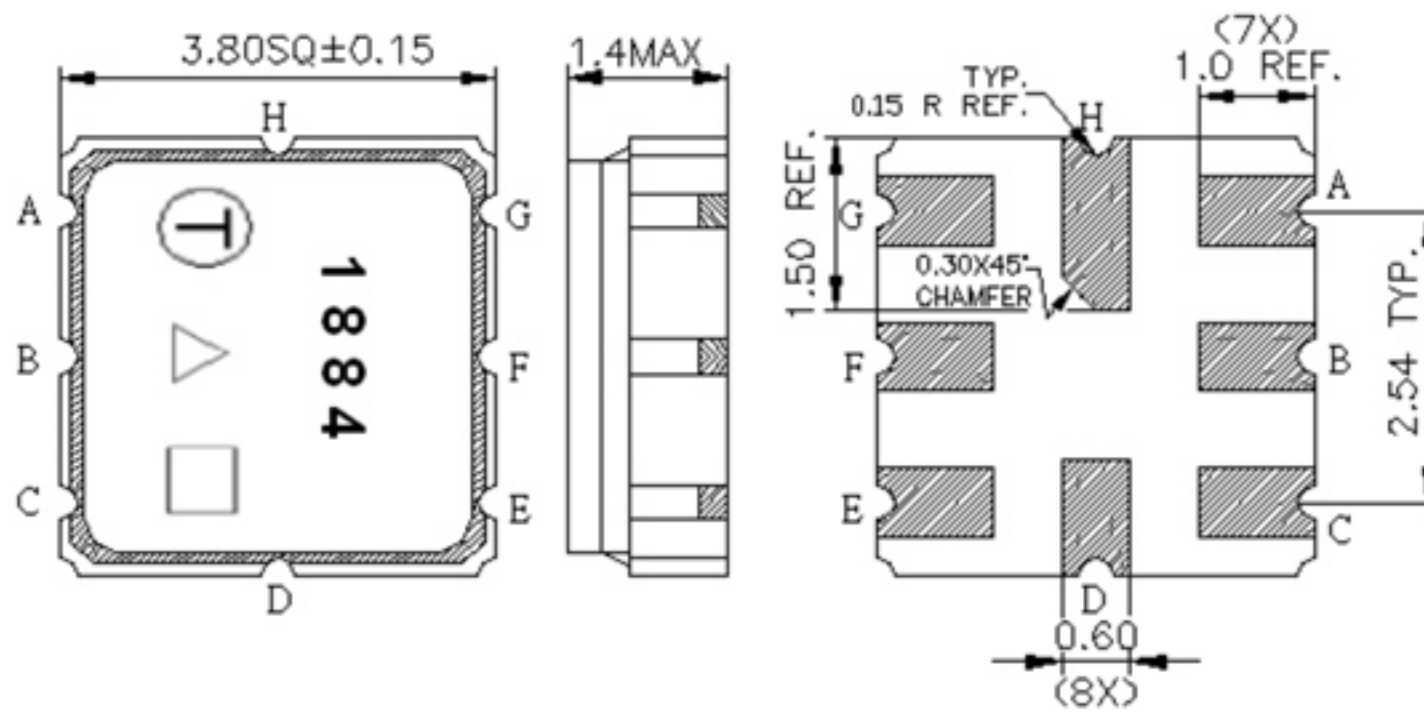


D. MEASUREMENT CIRCUIT:

The matching circuit is real by actual passive components.



E.OUTLINE DRAWING:



A: Input Ground or Input
B: Input or Input Ground
E: Output Ground or Output
F: Output or Output Ground
C,D,G,H : Ground
 △ : Year Code
 □ : Date Code
 Unit : mm

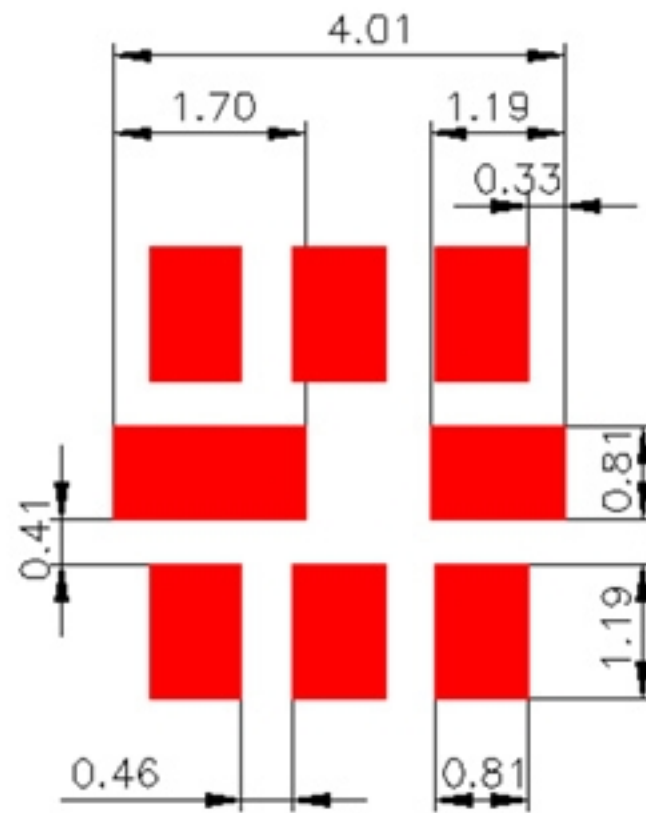
△ : Year Code

Year	2015	2016
	2017	2018
	2019	2020
Product Code	A	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

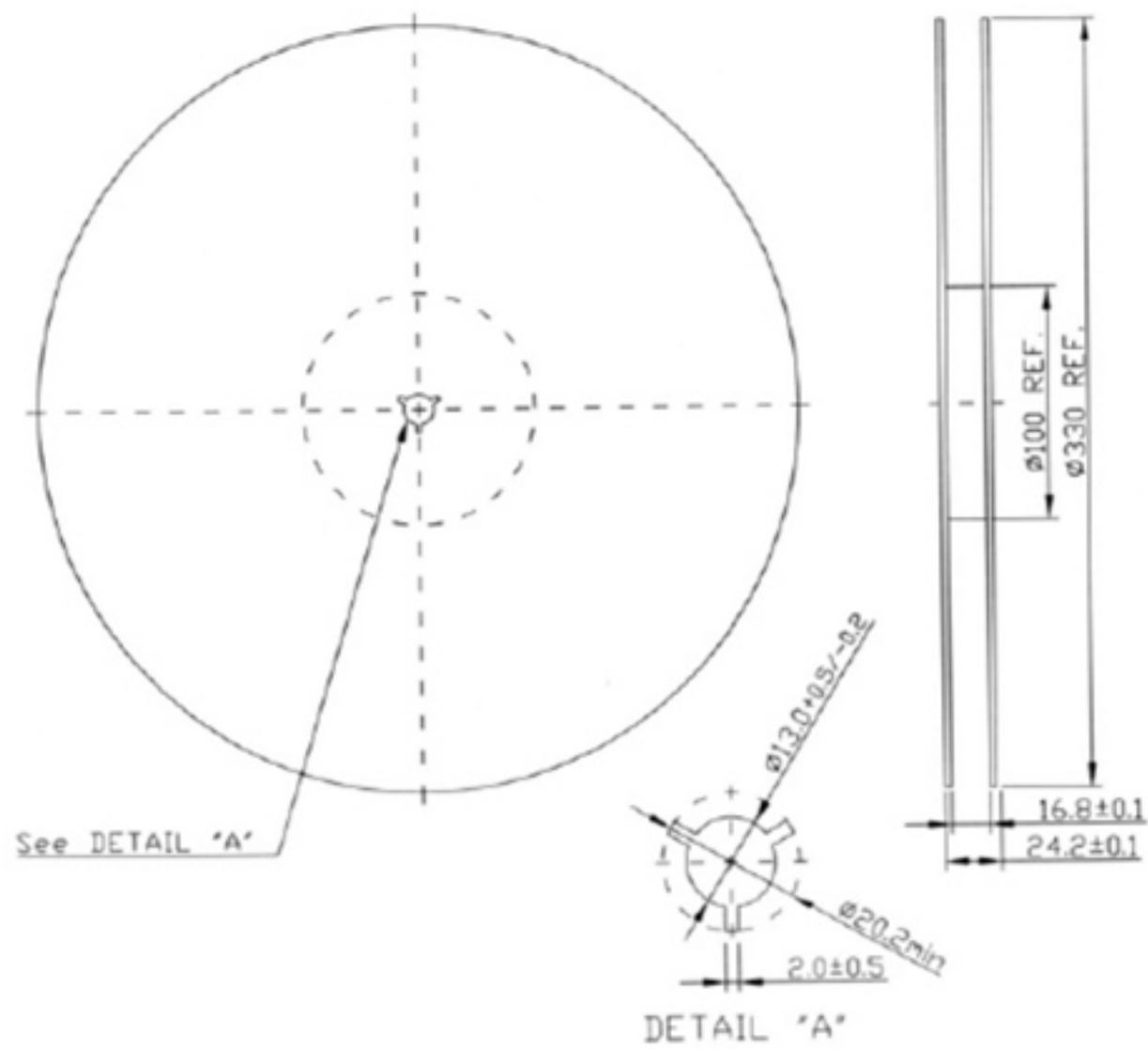
F. PCB FOOTPRINT:



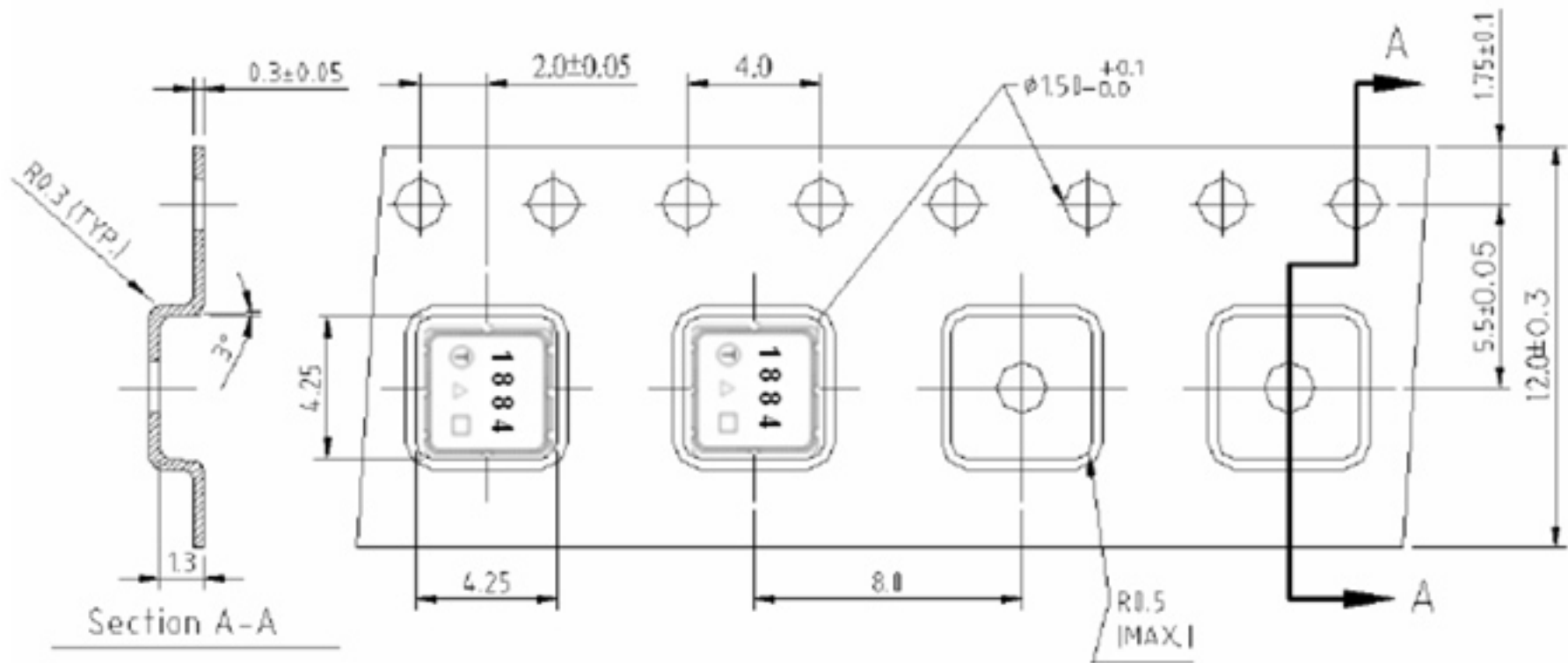
G. PACKING:

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°C shall be 30 seconds min.
3. Heating shall be fixed at 220°C for 50~80 seconds and at $245 \sim 260^\circ\text{C}$ peak (min. 10sec).
4. Time : 2 times.

