SAW Filter 840.8 MHz

MODEL NO.:TA2497A REV. NO : 1.0

A. MAXIMUM RATING:

1. Input Power Level: 10dBm
2. DC Voltage : 6V
3. Operating Temperature: -40℃ to +85℃
4. Storage Temperature: -40℃ to +85℃
5. Moisture Sensitivity Level: Level 1(MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic **S**ensitive **D**evice

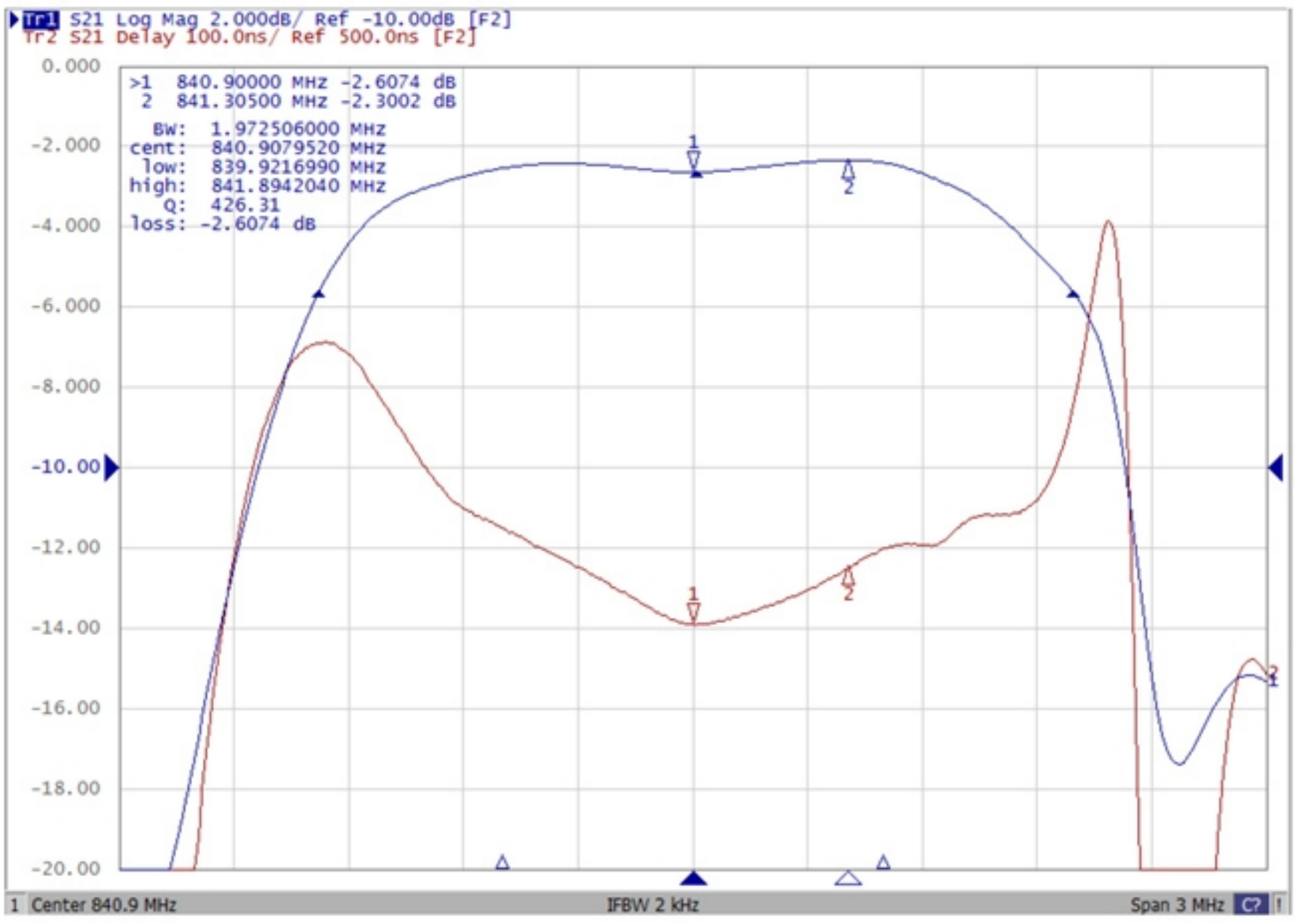
B. ELECTRICAL CHARACTERISTICS:

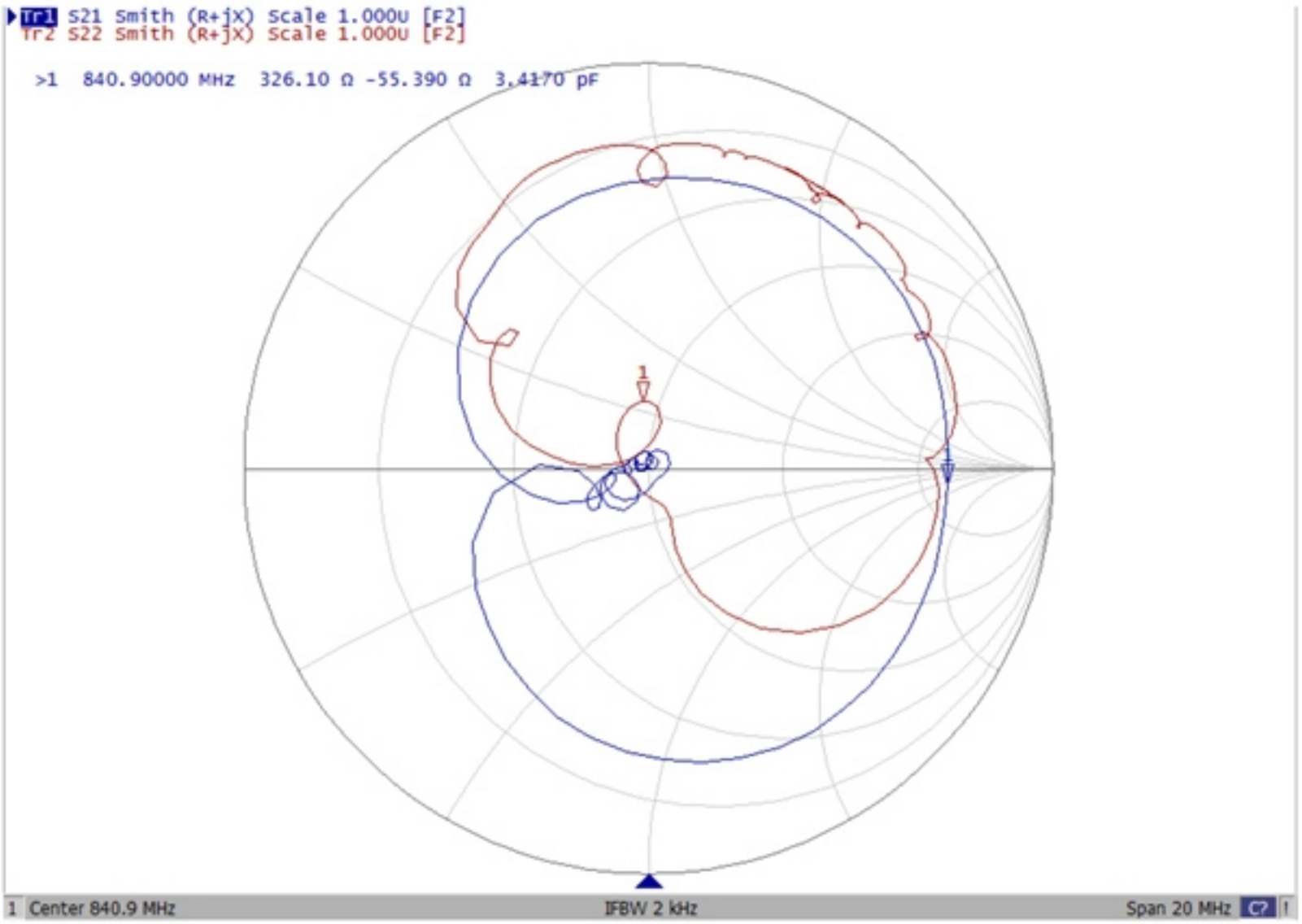
Ambient Temperature: 25℃

Item		Unit	Min.	Typ.	Max.
Center frequency	**Fc**	MHz	-	840.8	-
3dB BW		MHz	1.5	1.9	-
20dB BW		MHz	-	3.8	-
Minimum insertion loss Incl. loss of matching elements **1)*	**IL(min)**	dB	-	2.3	3.7
Passband (relative to IL_{min}) **1)*					
840.05 ~ 841.35 MHz		dB	-	0.3	3.0
Attenuation (relative to IL_{min}) **1)*					
15.000 ~ 758.80	MHz	dB	41	45	-
758.80 ~ 821.80	MHz	dB	34	38	-
821.80 ~ 828.80	MHz	dB	32	36	-
828.80 ~ 837.80	MHz	dB	16	25	-
839.00	MHz	dB	18	24	
844.10 ~ 849.00	MHz	dB	16	22	-
849.00 ~ 866.40	MHz	dB	20	25	-
866.40 ~ 881.80	MHz	dB	36	39	-
881.80 ~ 1000.0	MHz	dB	39	42	-
1000.0 ~ 2000.0	MHz	dB	40	53	-
2000.0 ~ 2500.0	MHz	dB	55	67	-
Impedance at Fc,Input **1)***Zin = Rin//Cin**	Zs	Ω		485Ω//1.5pF	
Impedance at Fc,Output **1)***Zout = Rout//Cout**	Z_L	Ω		485Ω//1.5pF	

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

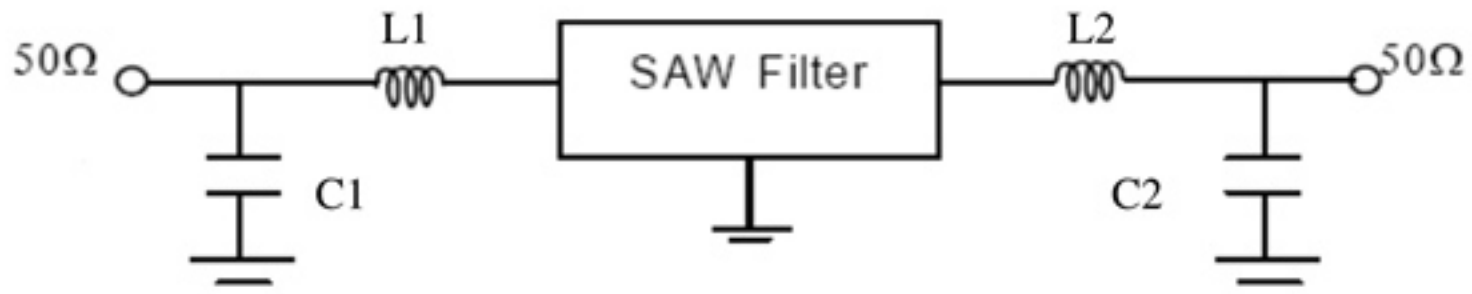
C. FREQUENCY CHARACTERISTICS:




Tr1 S21 Smith (R+jX) Scale 1.000U [F2]
Tr2 S22 Smith (R+jX) Scale 1.000U [F2]
>1 840.90000 MHz 326.10 Ω -55.390 Ω 3.4170 pF
1
1 Center 840.9 MHz
IFBW 2 kHz
Span 20 MHz
Cor

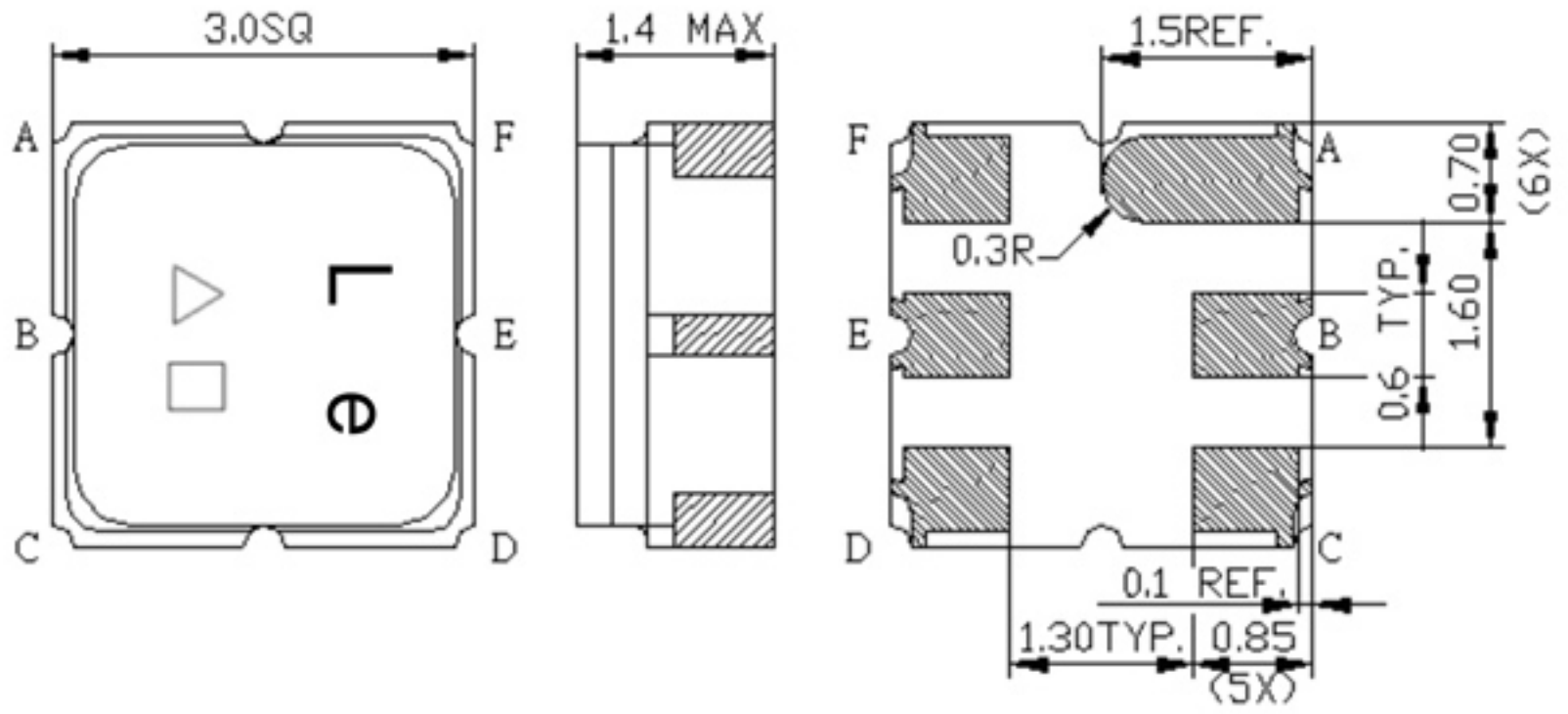

Tr1 S21 Log Mag 10.00dB/ Ref -50.00dB [F2]
0.000
-10.00
-20.00
-30.00
-40.00
-50.00
-60.00
-70.00
-80.00
-90.00
-100.0
1
1 Start 10 MHz
IFBW 2 kHz
Stop 2.5 GHz
Cor

D. MEASUREMENT CIRCUIT:



L1=L2=27nH C1=C2=3pF

E.OUTLINE DRAWING:

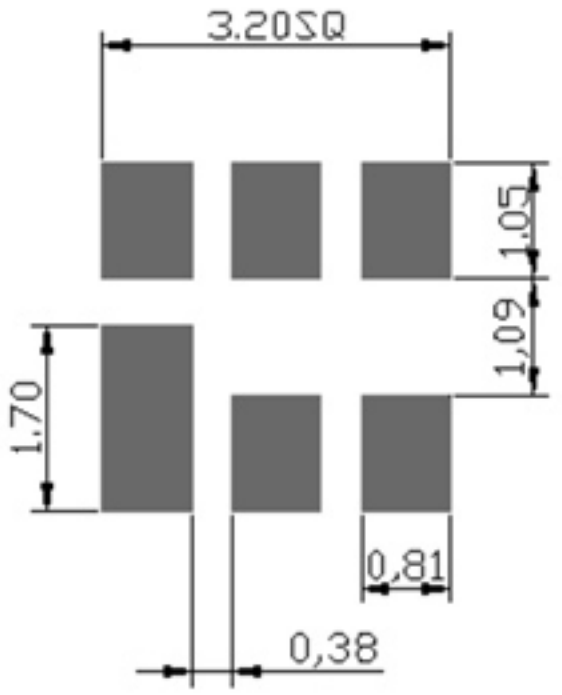


B: Input
E: Output
A,C,D,F: Ground
△: Year code: 1 for 2011, 2 for 2012…0 for2020…
□: Date code:
Unit: mm

□ : Data code：See the table

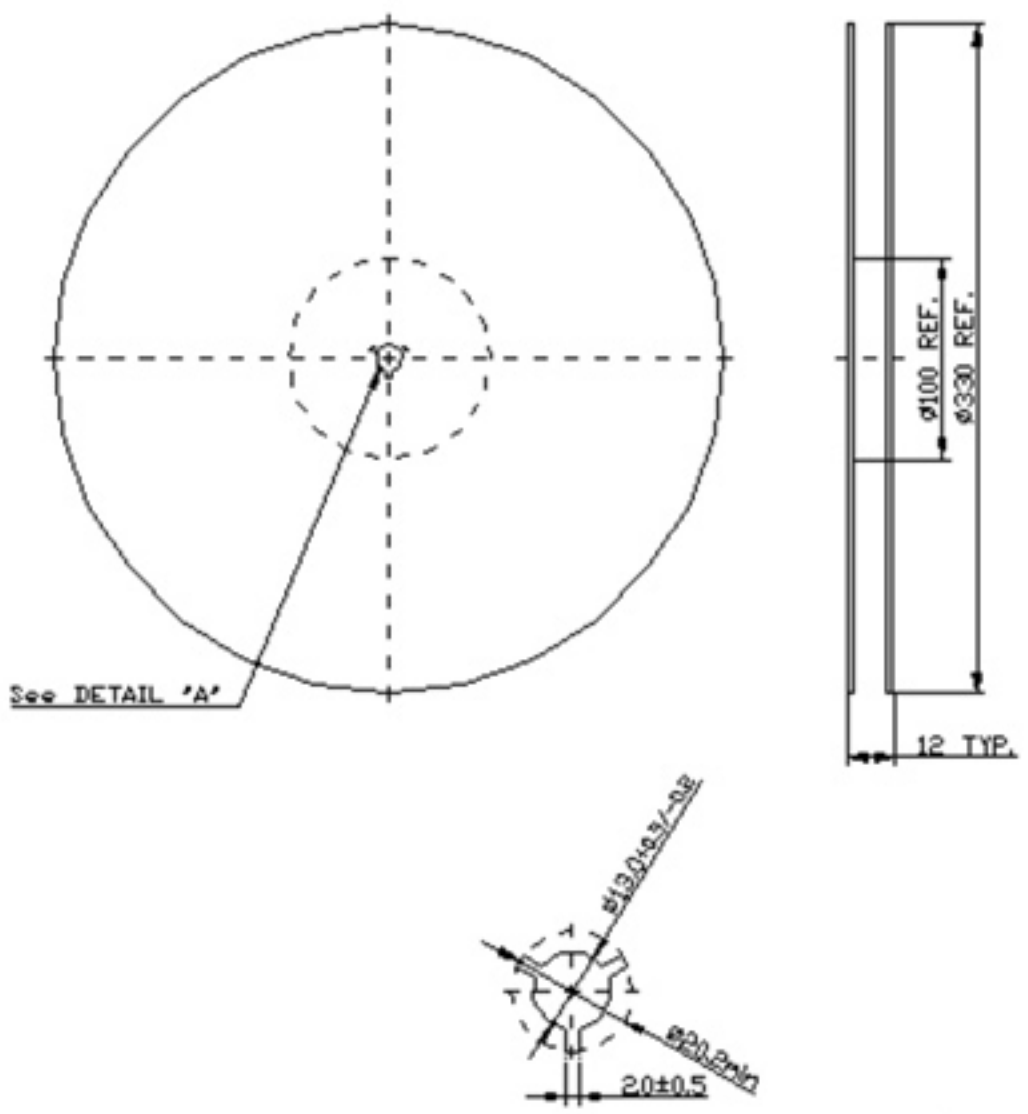
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

F. PCB FOOTPRINT:

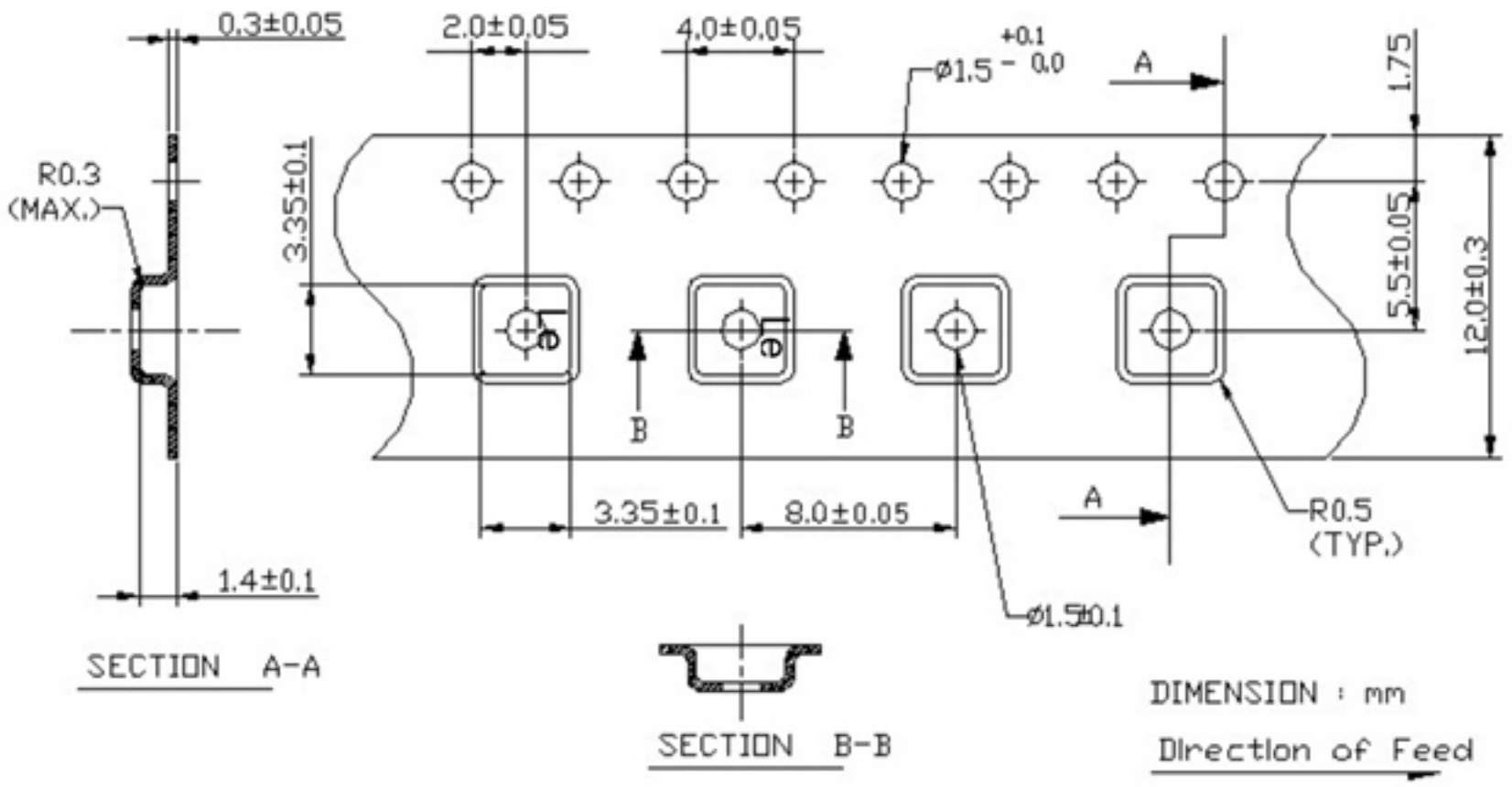


G. PACKING:

1. REEL DIMENSION (Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



H. <u>RECOMMENDED REFLOW PROFILE:</u>

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