

SAW Filter 869MHz

MODEL NO.:TA2021B

REV. NO.:1.0

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 6V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitive Level (MSL): Level 1



Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

Terminating source impedance (single) : $Z_s = 50 \Omega$

Terminating load impedance(single) : $Z_L = 50 \Omega$

Item	Unit	Min	Type.	Max
Center Frequency Fc	MHz	-	869.	-
Insertion Loss (868~870 MHz) IL	dB		3.0	3.5
VSWR (868~870 MHz)			1.5	2.0
Amplitude ripple (868~870 MHz)	dB		0.5	1.2
Attenuation				
50 ~ 791 MHz	dB	45	50	
791 ~ 835 MHz	dB	45	50	
835 ~ 848 MHz	dB	43	48	
848 ~ 862 MHz	dB	15 ¹⁾	25	
880 ~ 883 MHz	dB	35	45	
883 ~ 1000 MHz	dB	49	54	
Package size	mm	SMD 3x3		

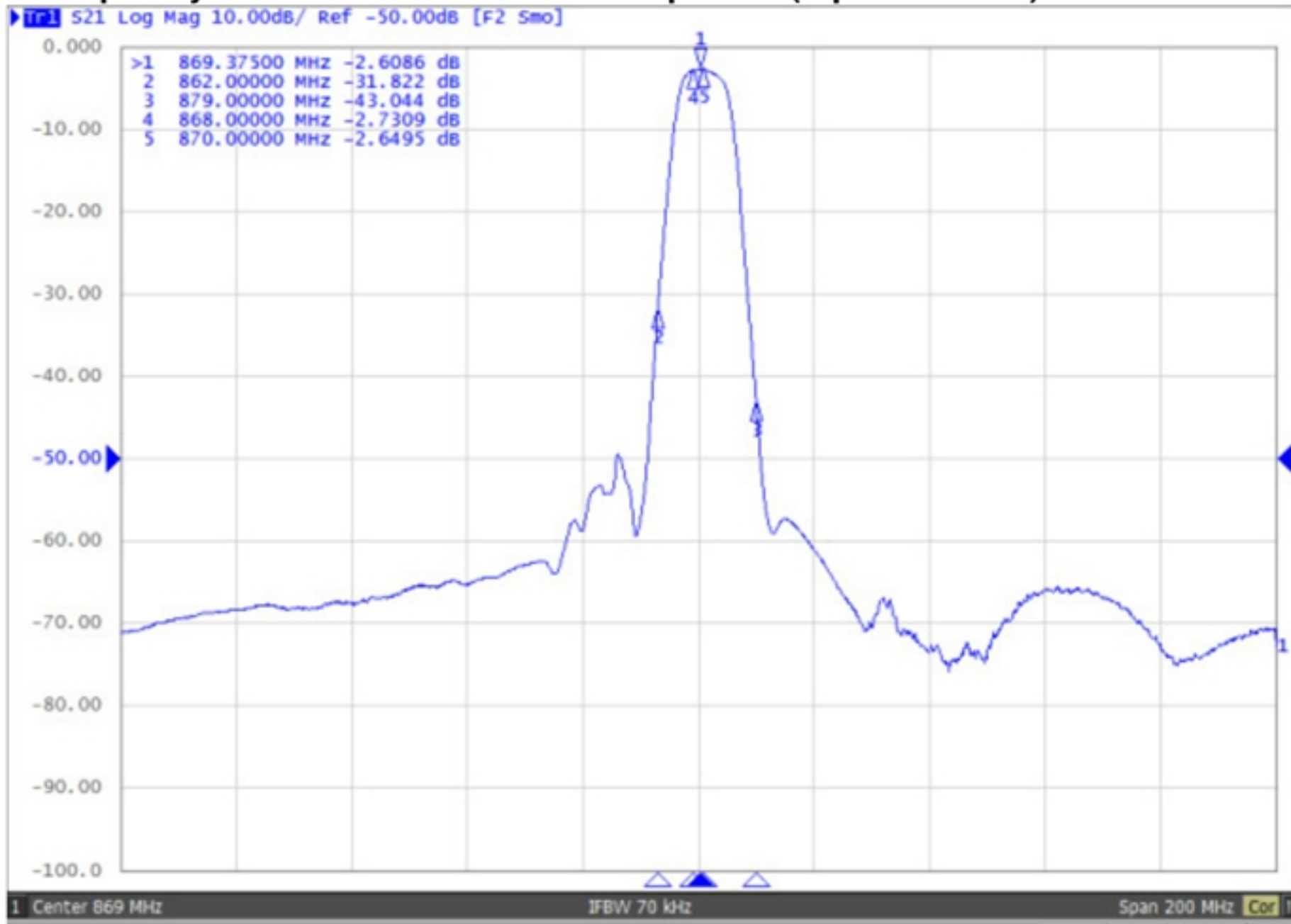
1) **25dB at 25°C**; 15dB for -40°C to +60°C

C. TEST CIRCUIT:

Network analyzer



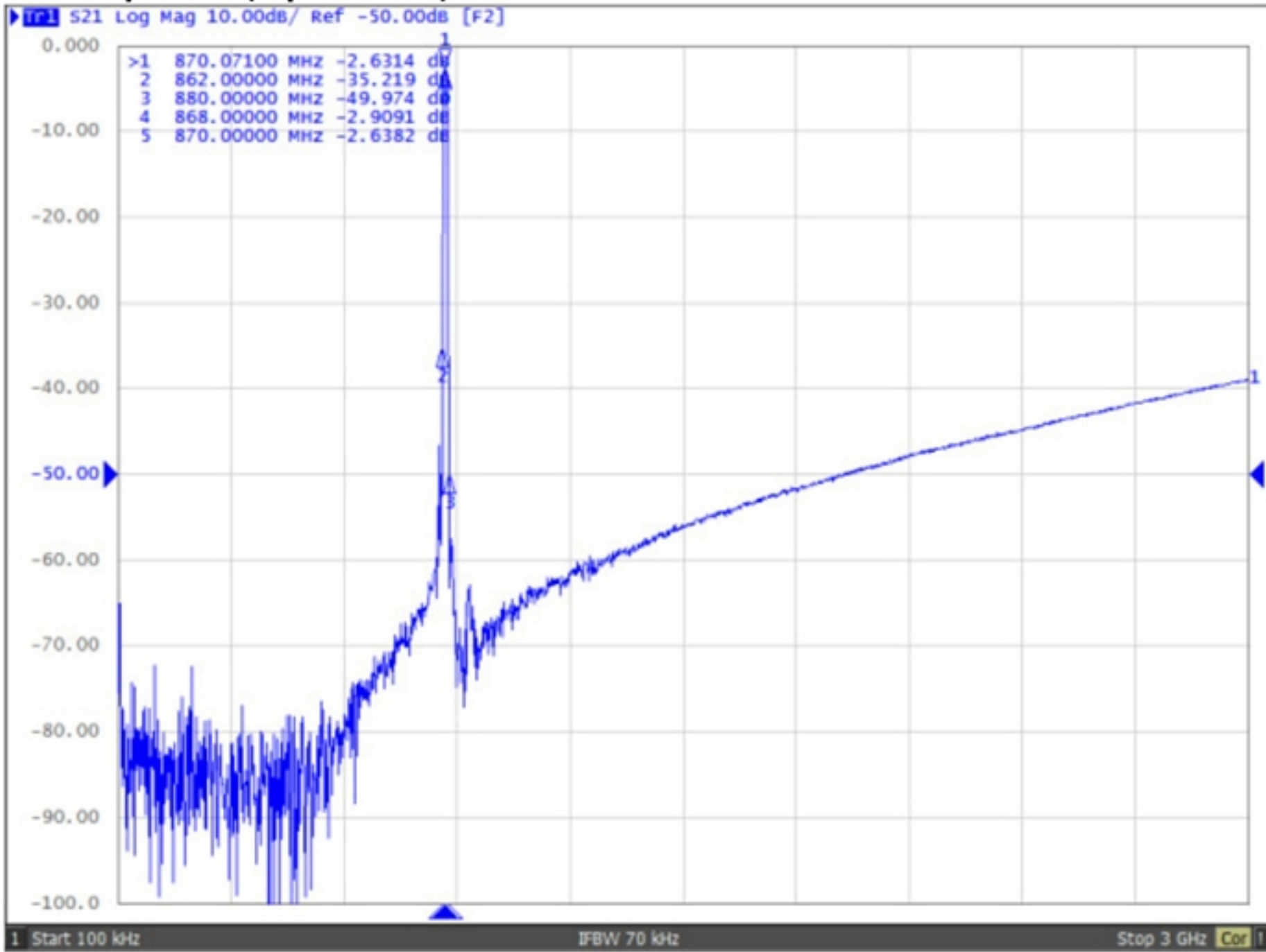
D. Frequency Characteristics: S21 response :(Span 200MHz)



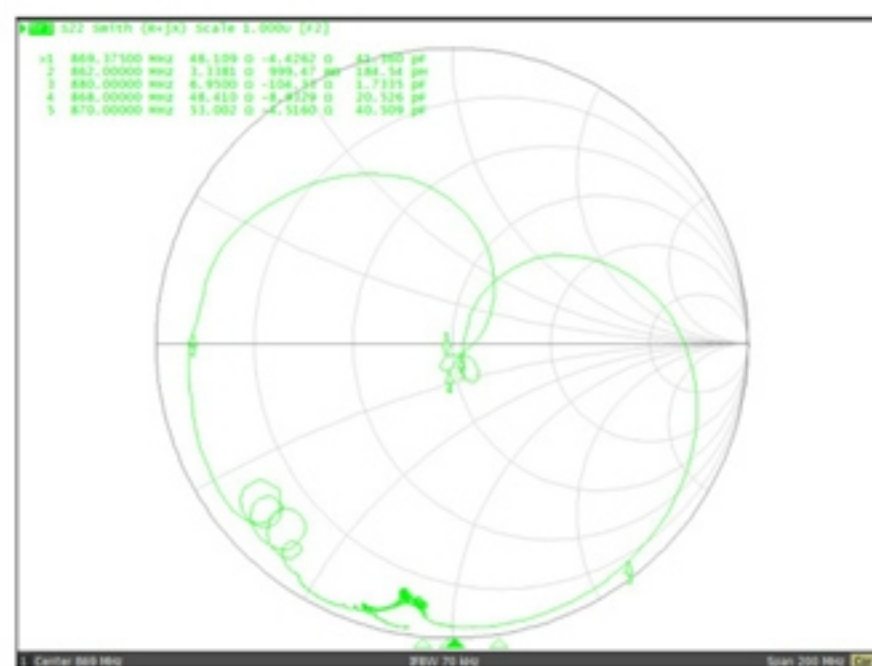
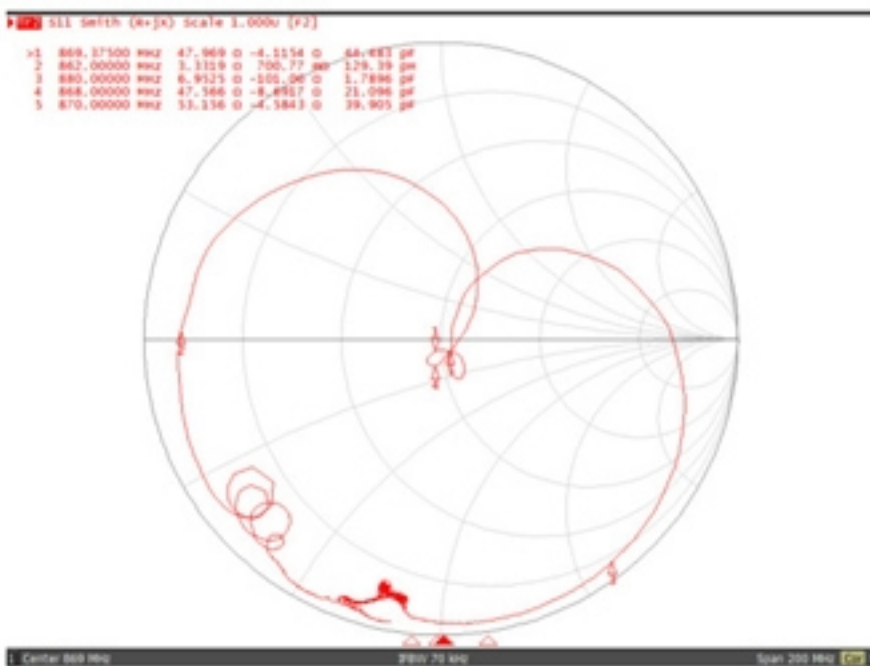
S21 response :(Span 20MHz)



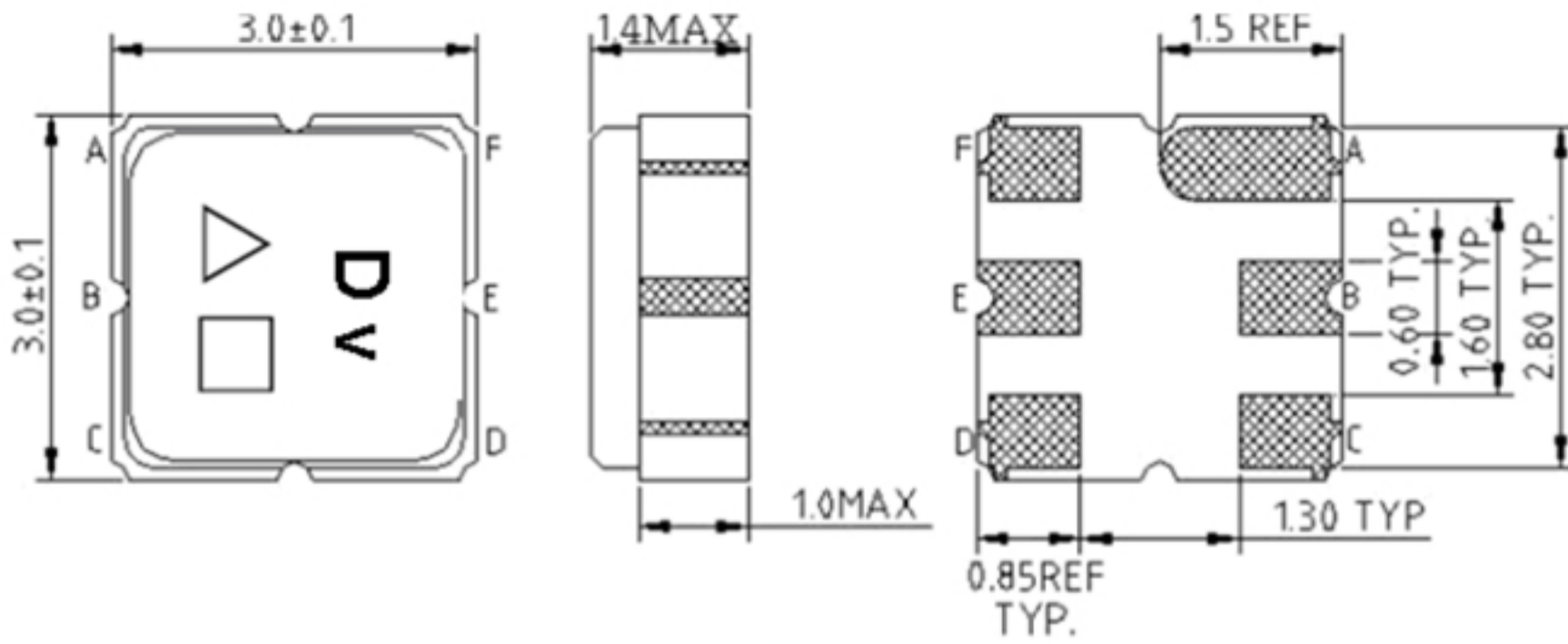
S21 response :(Span 3GHz)



S11/S22 response:



E.OUTLINE DRAWING:



- #B: Input
- #E: Output
- # A.C.D.F Ground
- △:Year code (ex 2008→8)
- : Date code
- Unit: mm

Data code : See the table

WK	01	02	...	26	27	28	...	52
Code	A	B	...	Z	a	b	...	z

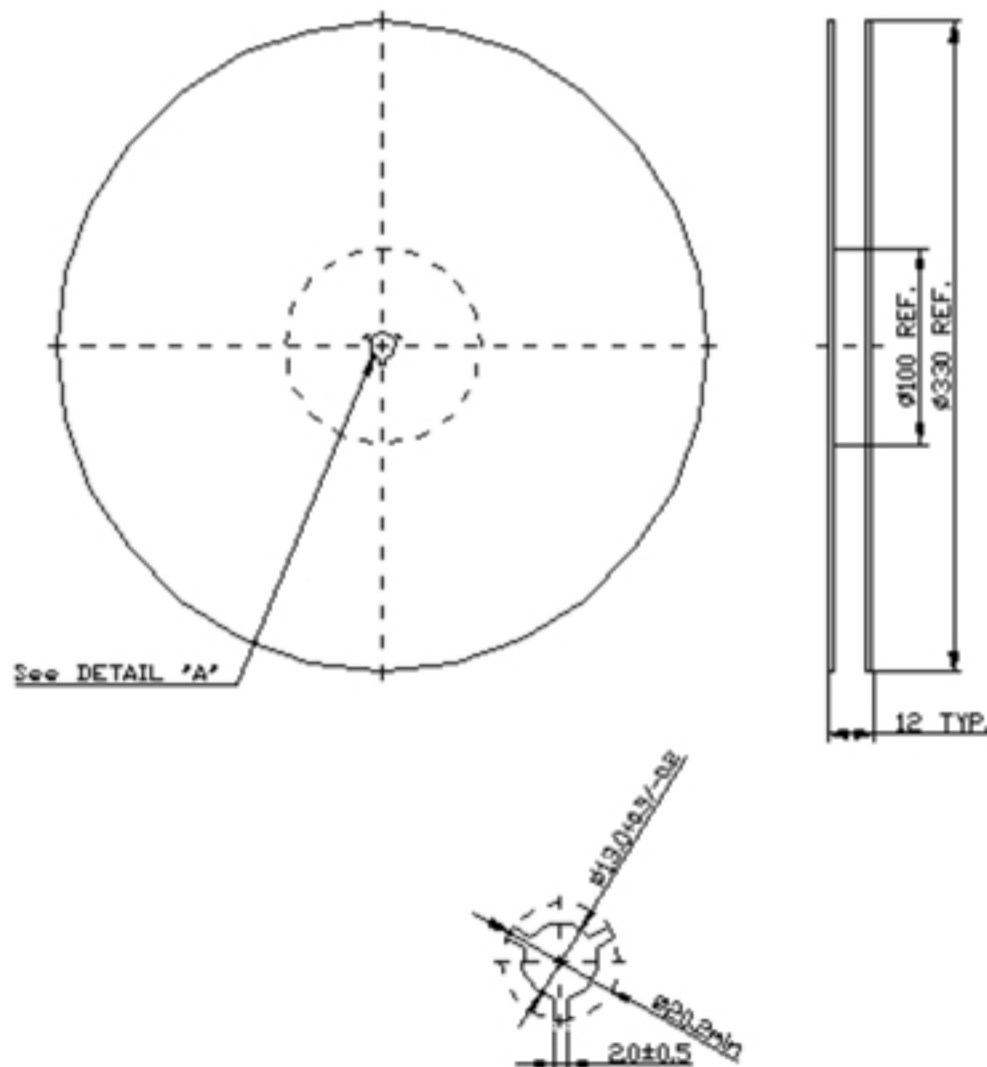
△ Year code : See the table

Year	2008	2009	2010	2011	...	2019	2020
Code	8	9	0	1	...	9	0

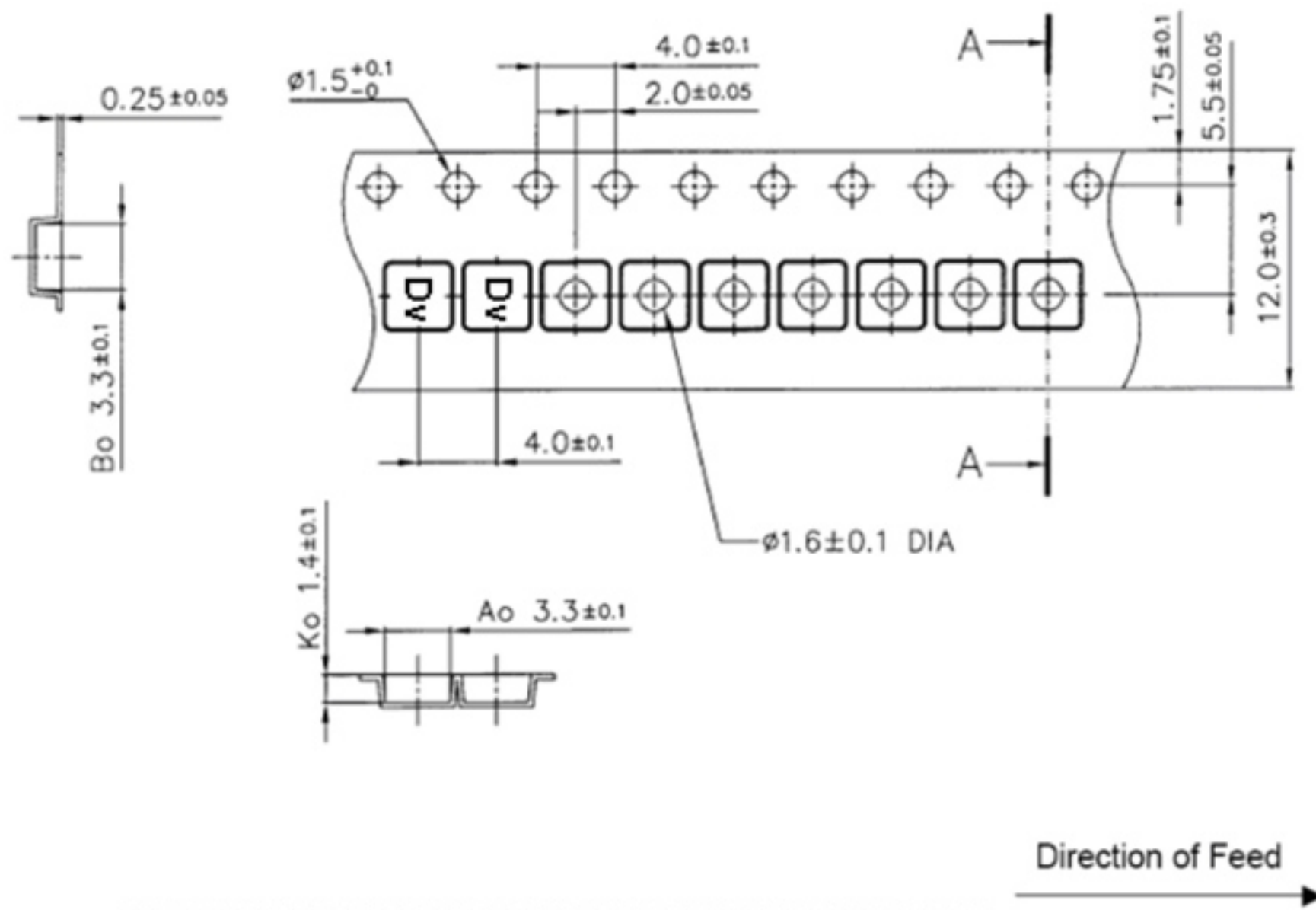
F. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION.



G. 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 ($20 \sim 40$ sec).
4. Time: 2 times.

