

SAW Filter 1800MHz

MODEL NO.: TA0939A

REV. NO : 3.0

A. MAXIMUM RATING:

1. Input Power Level: 10 dB_m
2. DC voltage: 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -50 °C to +85 °C
5. Moisture Sensitivity Level: Level 1 (MSL1)

RoHS Compliant
Lead free
Lead-free soldering

Electrostatic Sensitive Device (ESD)

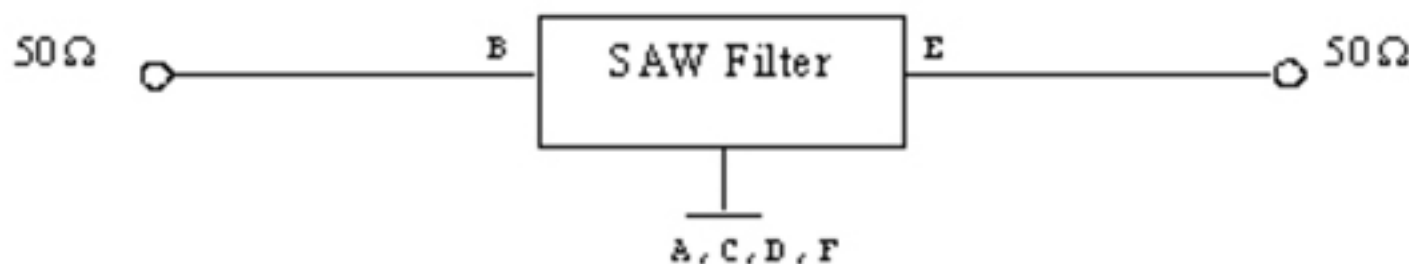
B. ELECTRICAL CHARACTERISTICS:

Item			Min.	Typ.	Max.
Center frequency	Fc	MHz	-	1800	-
Insertion loss(1794 ~ 1806MHz)	IL	dB	-	1.89	3.5
Amplitude ripple(1794~1806 MHz)		dB	-	0.28	2.0
Group delay (1794~1806 MHz)		ns	-	17.1	40
Return loss (1794~1806 MHz)		dB	10	16.47	-
Attenuation (Reference level from 0 dB)					
800 ~ 1720	MHz	dB	30	39.1	-
1720 ~ 1745	MHz	dB	20	32.8	-
1745 ~ 1755	MHz	dB	6	19.0	-
1840 ~ 1850	MHz	dB	10	45.8	-
1850 ~ 2800	MHz	dB	30	43.7	-
Temperature Coefficient		Ppm/°C	-	-36	-
Source impedance	Zs	Ω	-	50	-
Load impedance	ZL	Ω	-	50	-

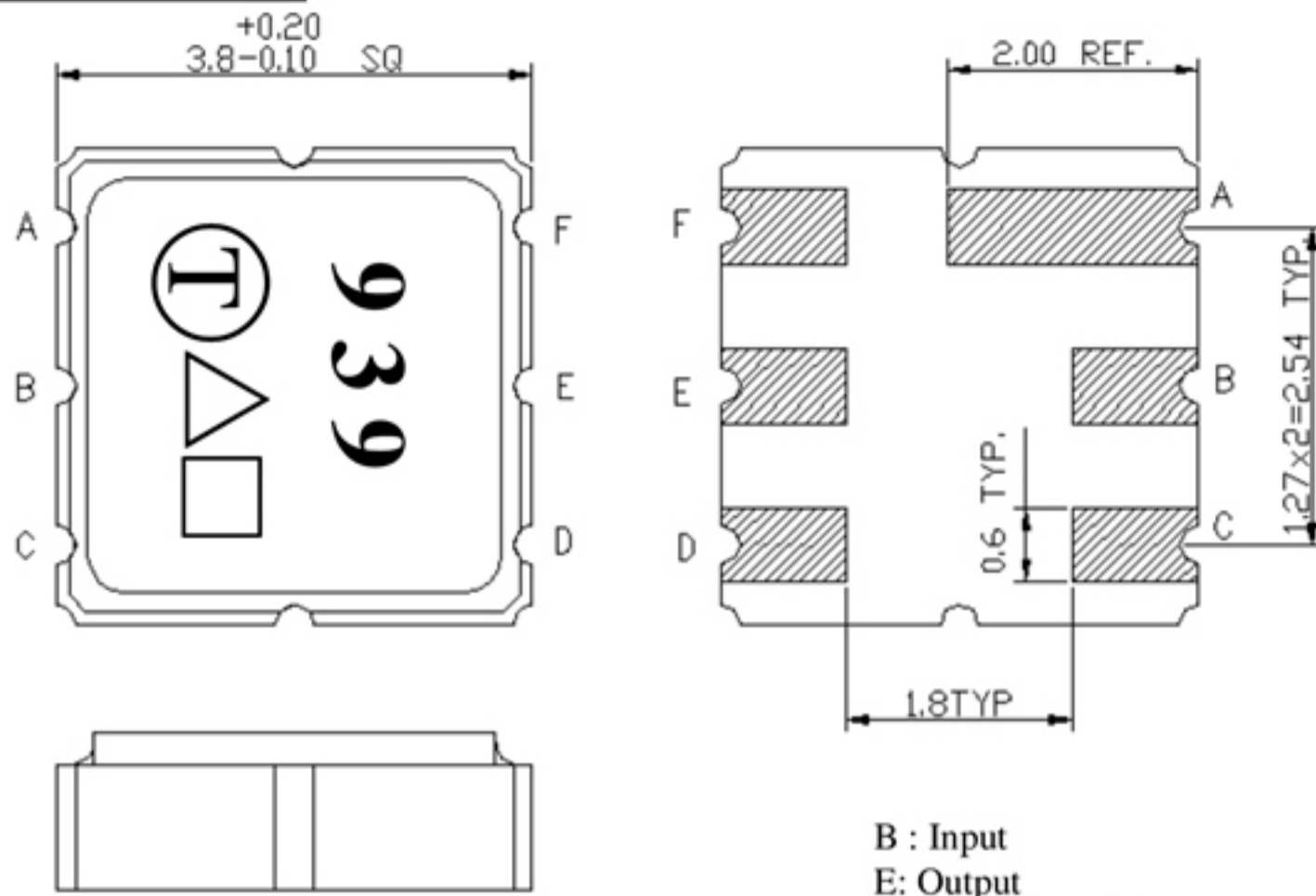
C. MEASUREMENT CIRCUIT:

50 Ohm Test circuit (single-ended / single-ended)

HP Network analyzer



D. OUTLINE DRAWING:



B : Input
 E: Output
 A,C,D,F Ground
 Unit: mm

Marking name : **939**

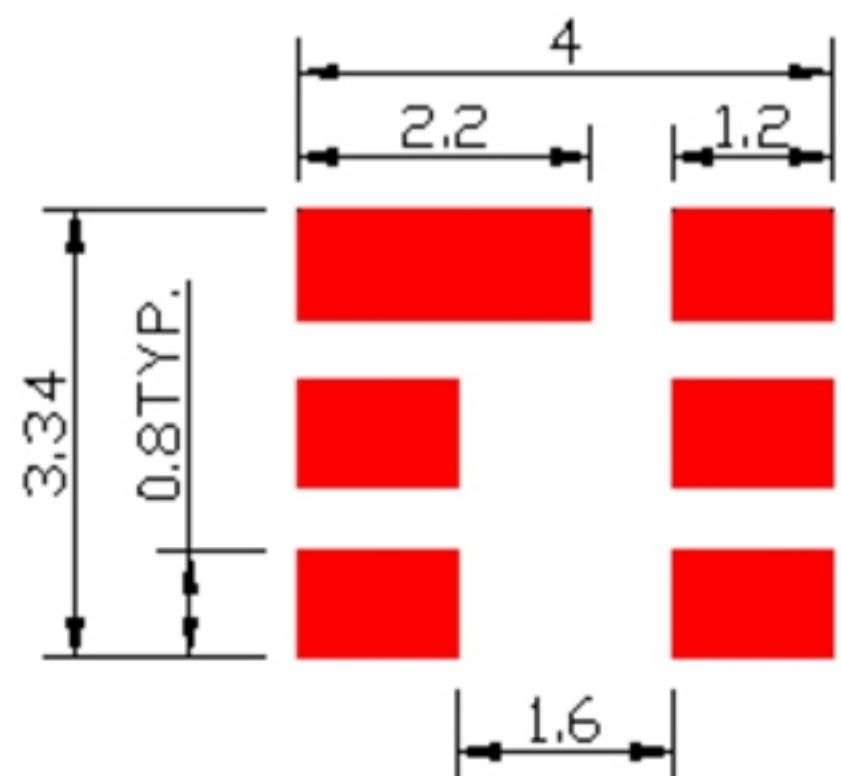
△: Year code

□ : Week code

Product Year
 Code

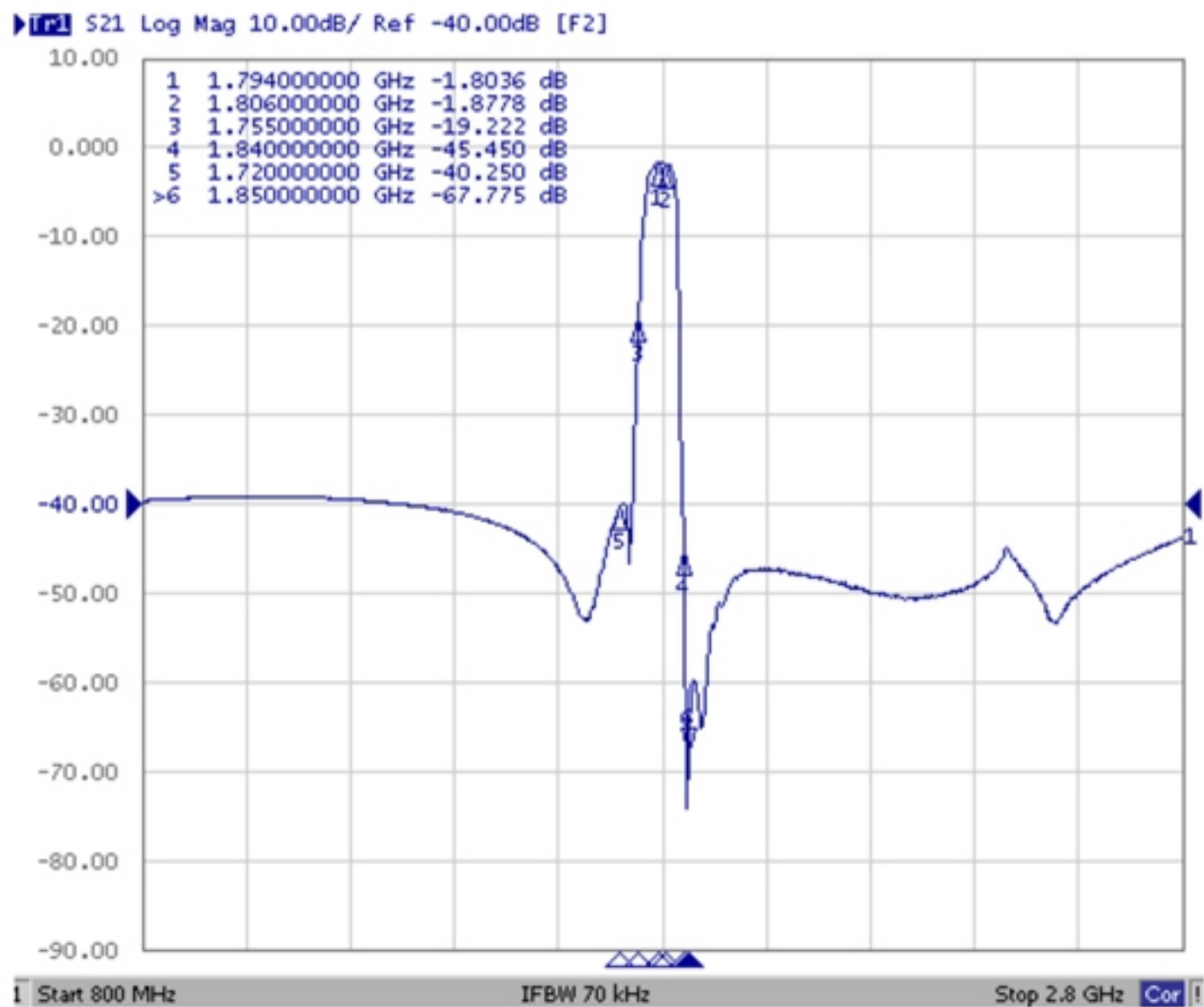
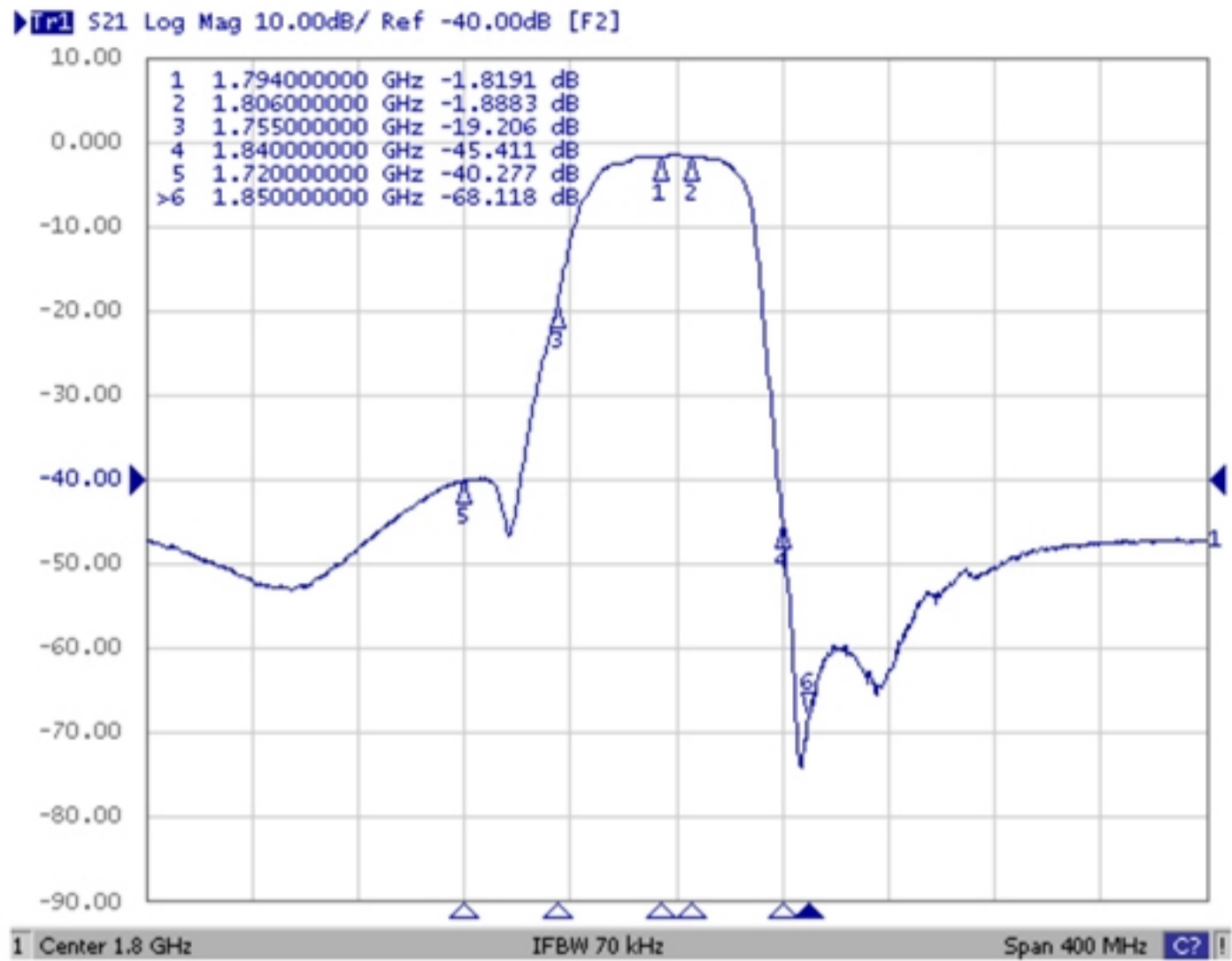
Year	2019 2021	2020 2022
Product Code	A	a

E. PCB Footprint :



F. Frequency Characteristics :

Transfer function

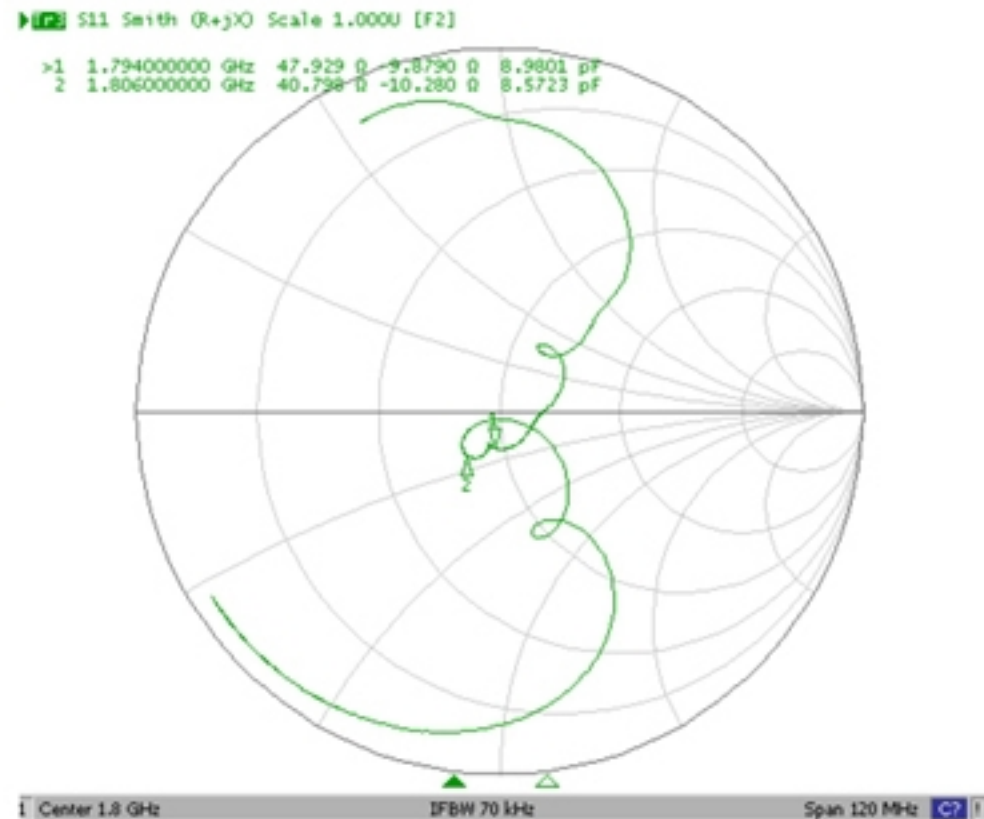


Group delay :

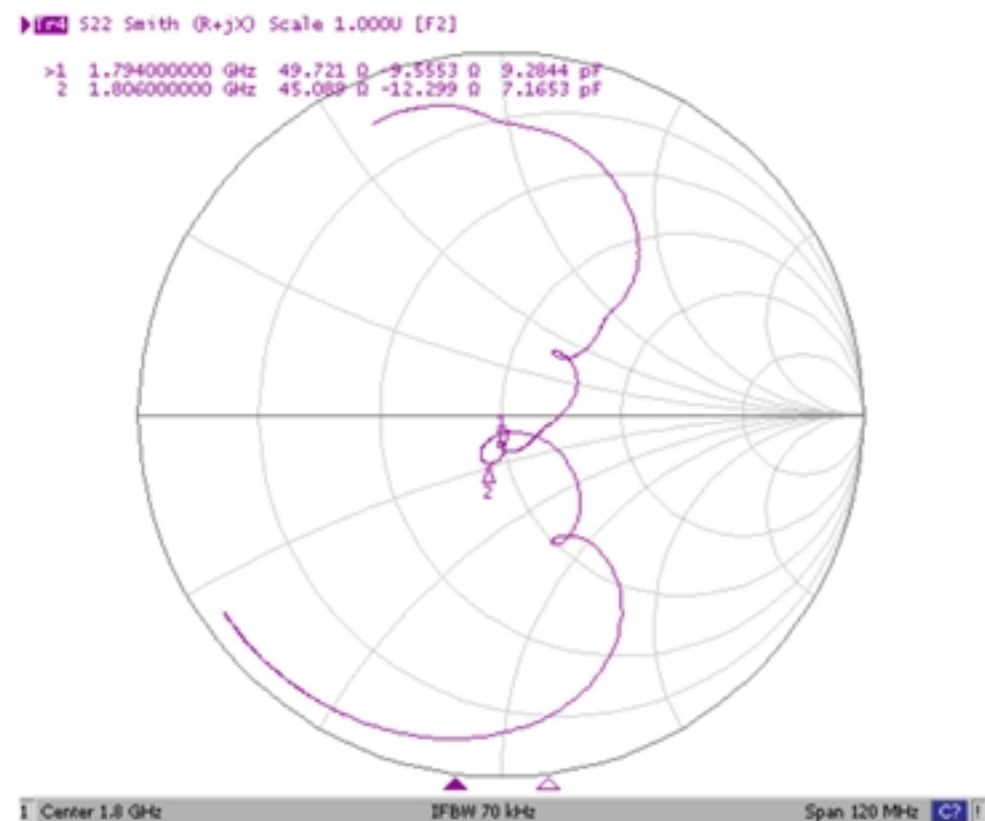


Reflection Functions :

S11



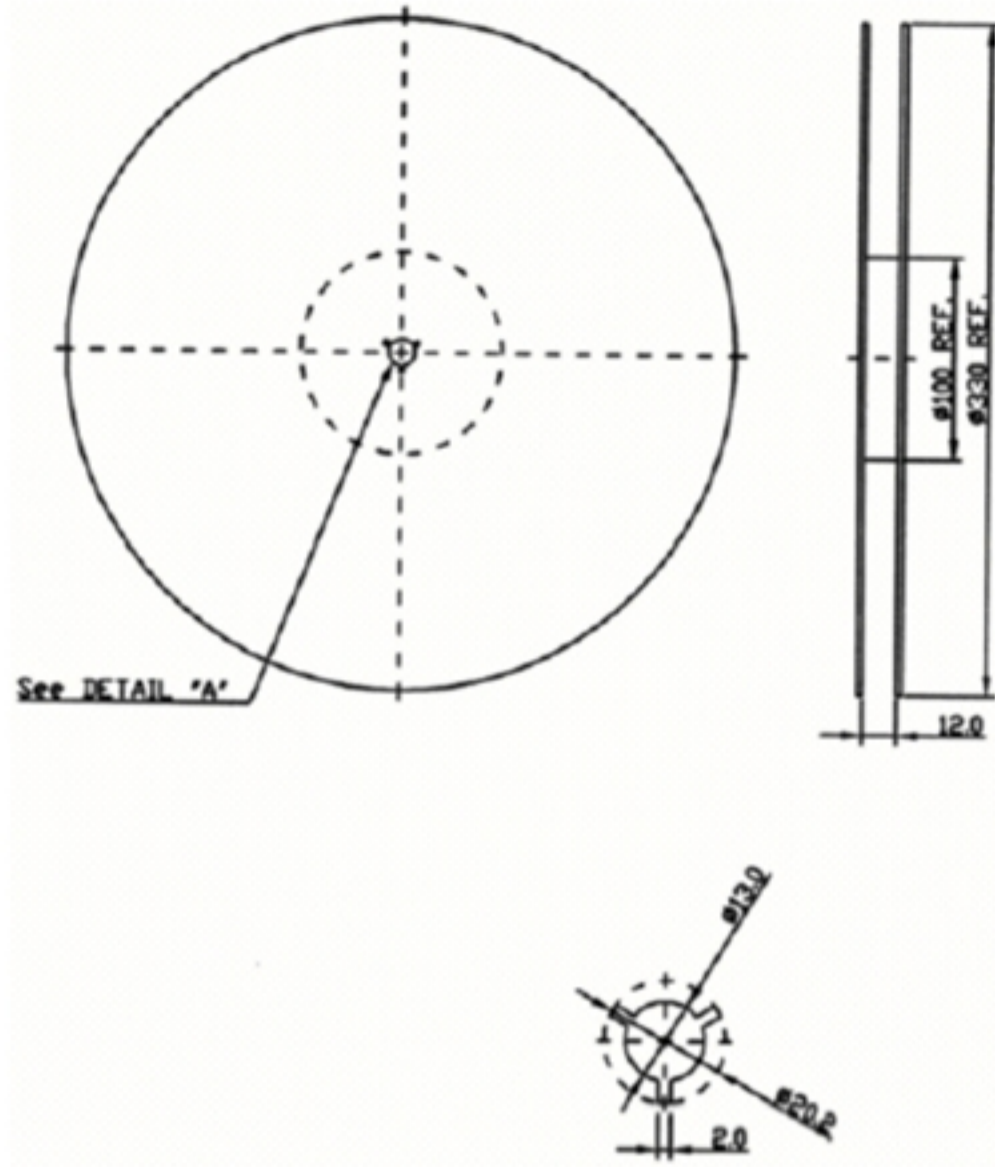
S22



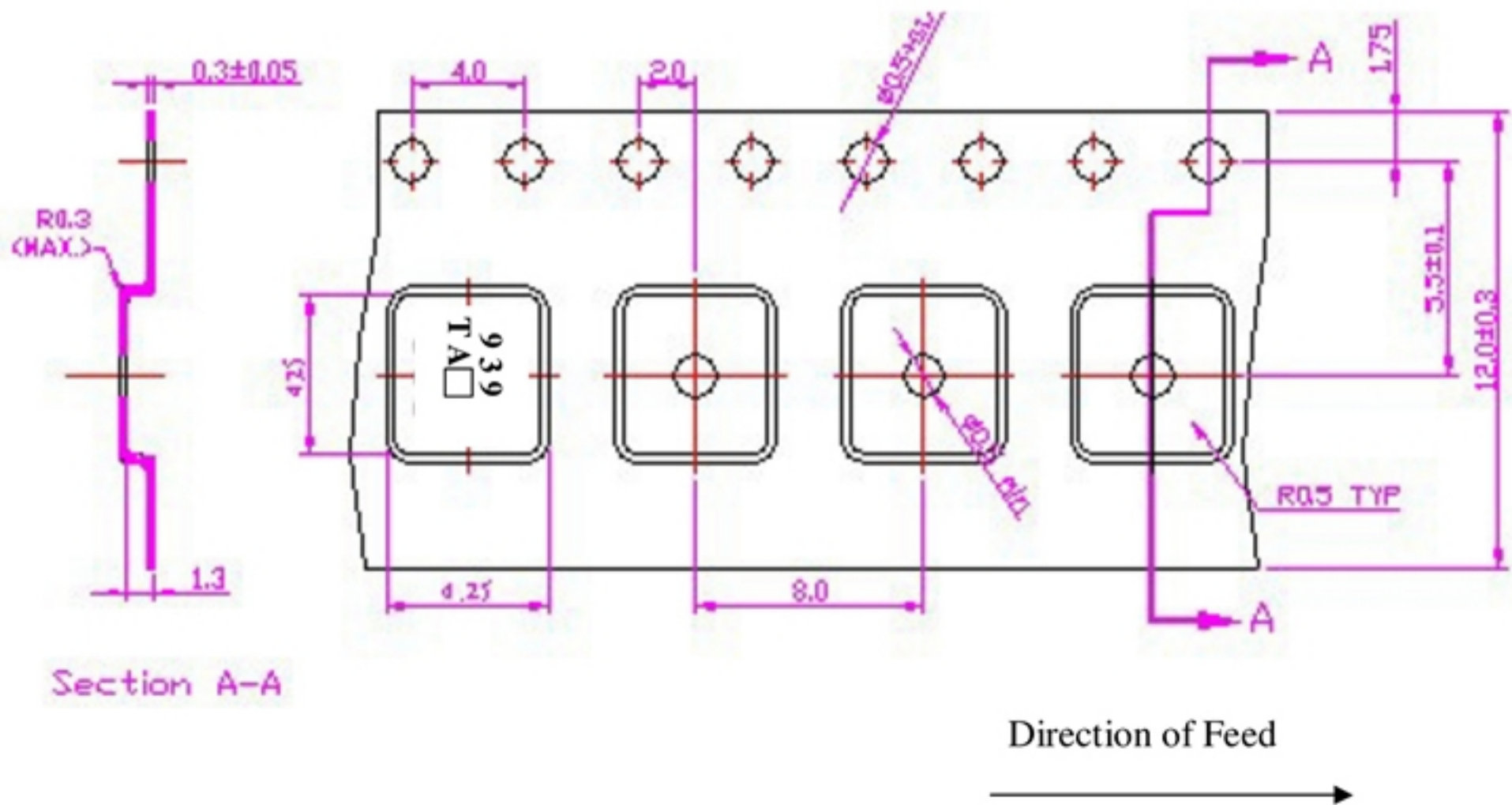
G. PACKING:

1. REEL DIMENSION

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



2. TAPE DIMENSION



H . RECOMMENDED REFLOW PROFILE :

1. Preheating shall be fixed at 150~180°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 245~260°C peak (min. 10sec).
4. Time : 2 times.

