

SAW Filter 831.5 MHz

MODEL NO.: TA1494B

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 15 dB_m
2. DC voltage: 5 V
3. Operating Temperature: -40°C to +85°C
4. Storage Temperature: -40°C to +85°C
5. Moisture Sensitivity Level: Level 1 (MSL1)

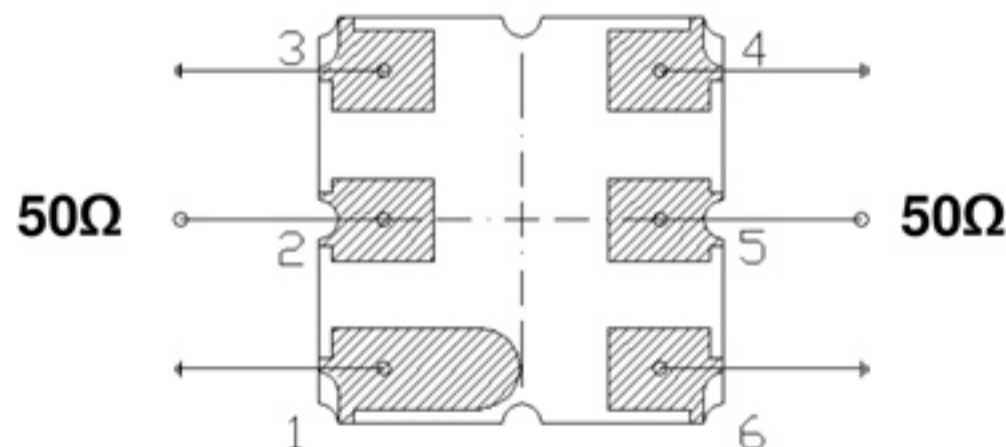


Electrostatic Sensitive Device (ESD)

B. ELECTRICAL CHARACTERISTICS:

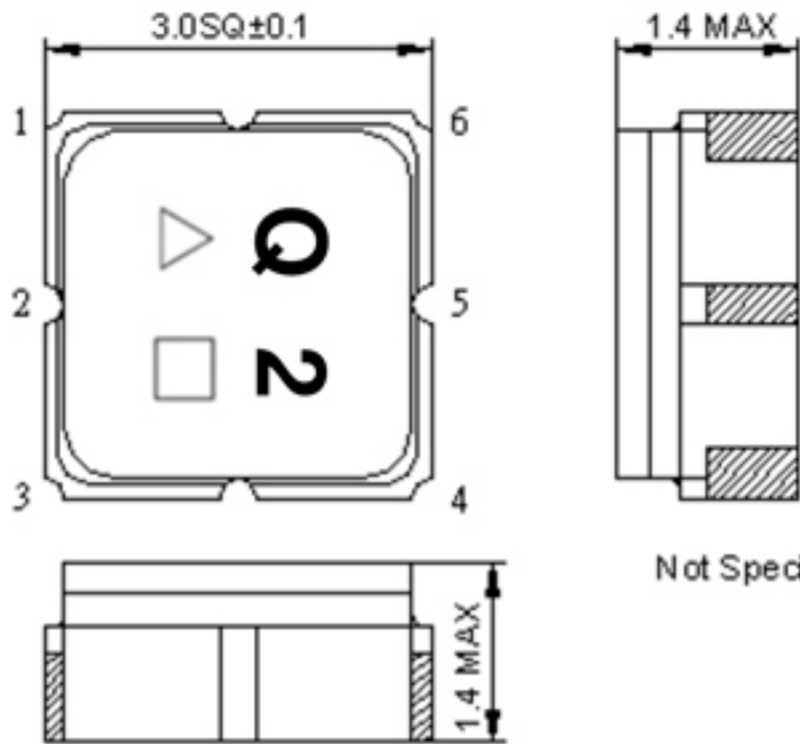
Item	Unit	Min.	Typ.	Max.
Center frequency Fc	MHz	-	831.5	-
Insertion Loss (814~849 MHz) IL	dB	-	3.0	4.5
Amplitude Ripple (814~849 MHz)	dB	-	1.1	2.8
VSWR (814~849 MHz)	-	-	2.5	2.6
Attenuation (Reference level from 0 dB)				
DC ~ 794 MHz	dB	30	46	-
869 ~ 900 MHz	dB	18	31	-
900 ~ 2300 MHz	dB	25	33	-
2300 ~ 2600 MHz	dB	25	30	-
2600 ~ 2800 MHz	dB	20	29	-
2800 ~ 3200 MHz	dB	5	26	-
3200 ~ 6000 MHz	dB	2	4	-
Temperature Coefficient of Frequency	Ppm/°C	-	-36	-

C. MEASUREMENT CIRCUIT:

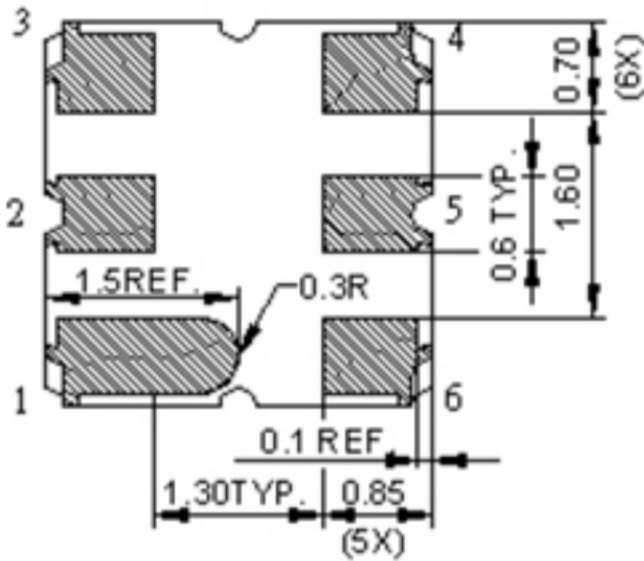


- (2): Unbalance Port
- (5): Unbalance Port
- Others: Ground

D. OUTLINE DRAWING:



Not Specified Tolerance : +/-0.15 mm



Pin No.	Symbol	Function
1	GND	Ground
2	IN	Input
3	GND	Ground
4	GND	Ground
5	OUT	Output
6	GND	Ground

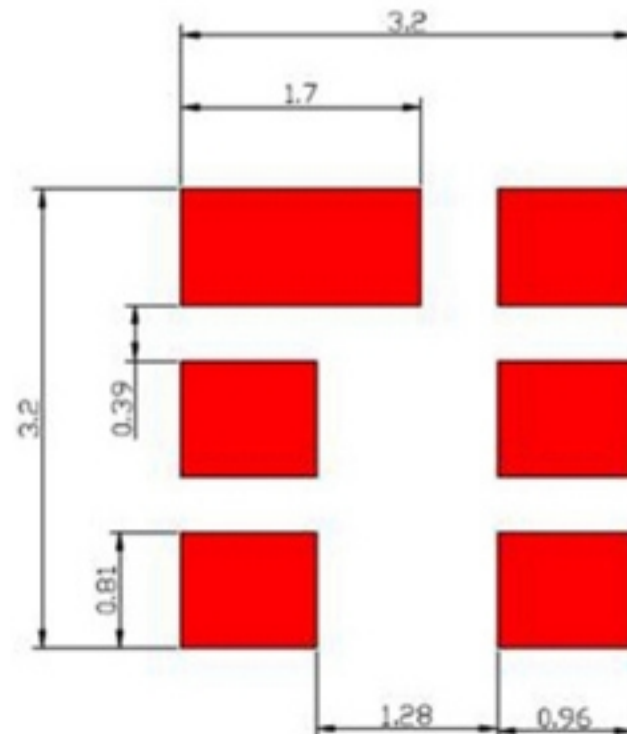
△ : Year Code (2020->0, 2021->1, ..., 2029->9, 2030->0)

□ : Date Code

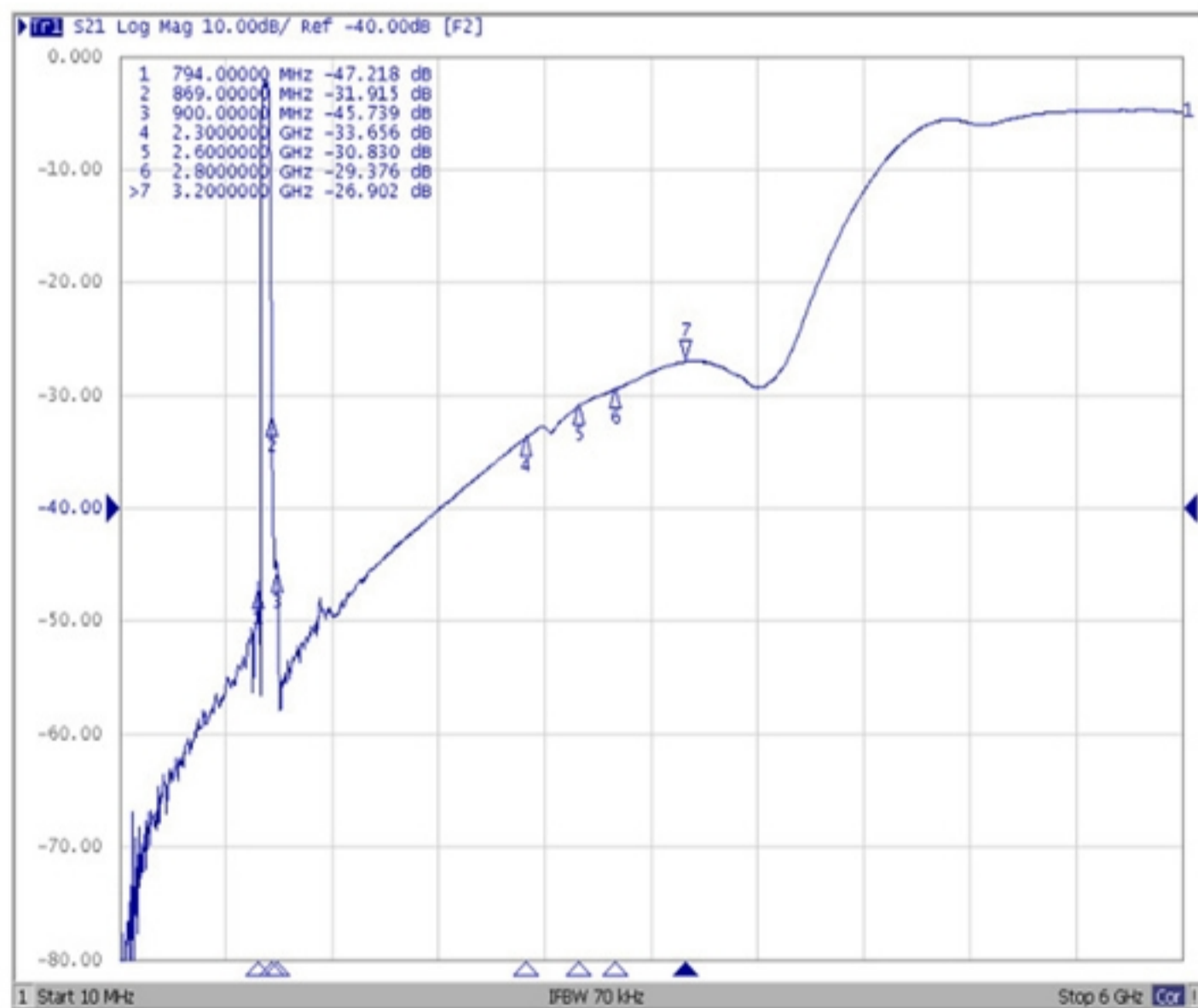
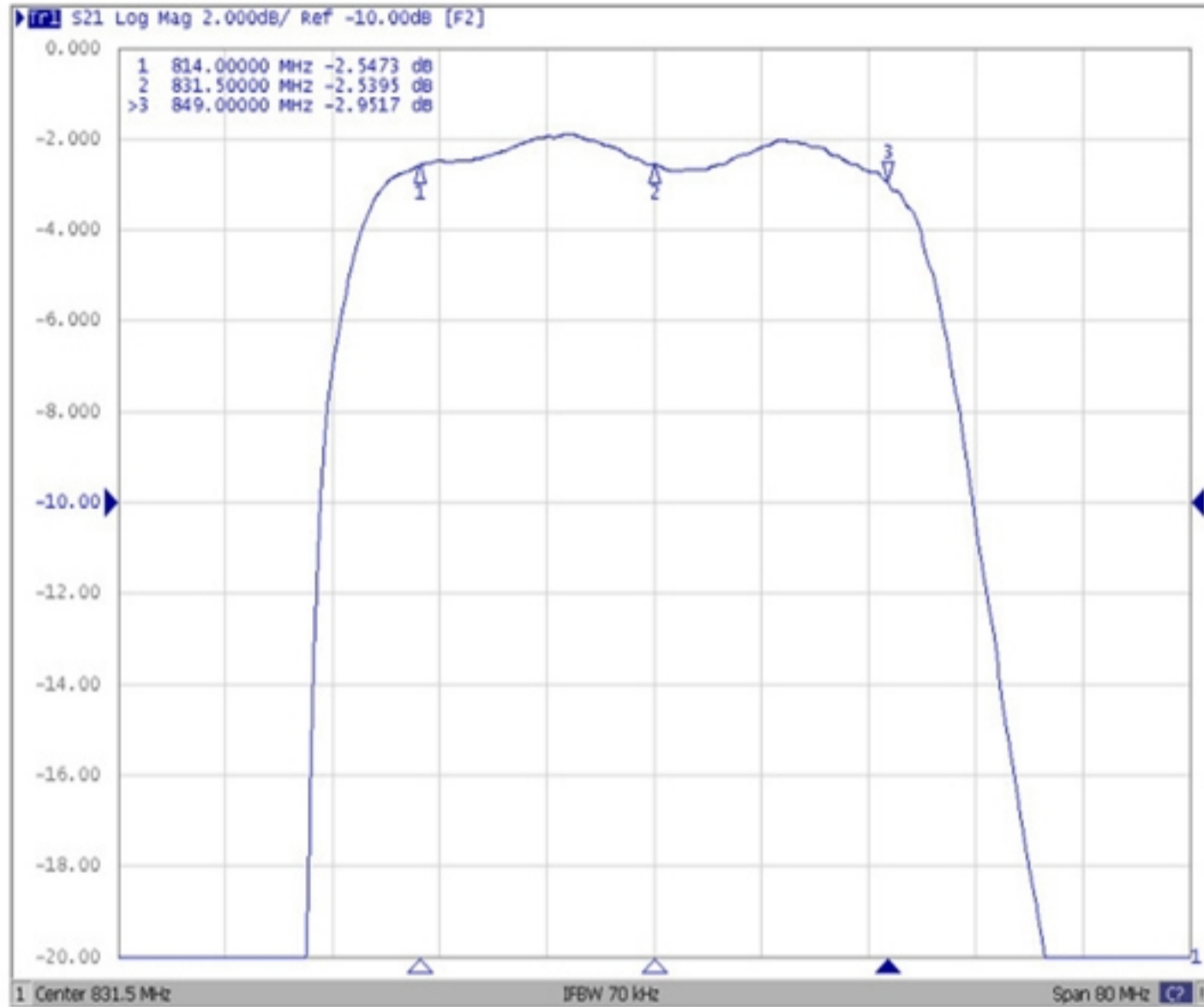
Date Code Table:

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:

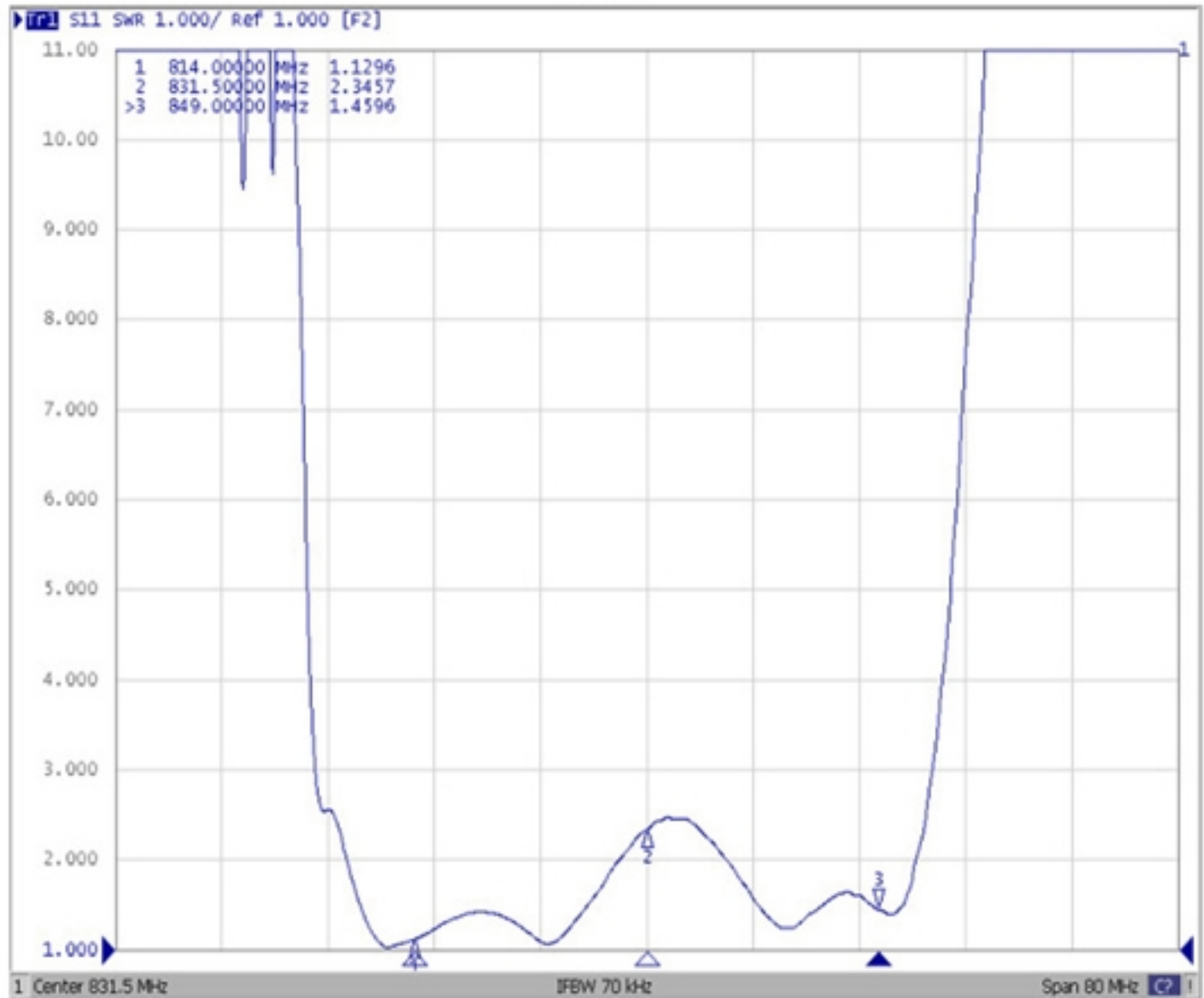


F. Frequency Characteristics:

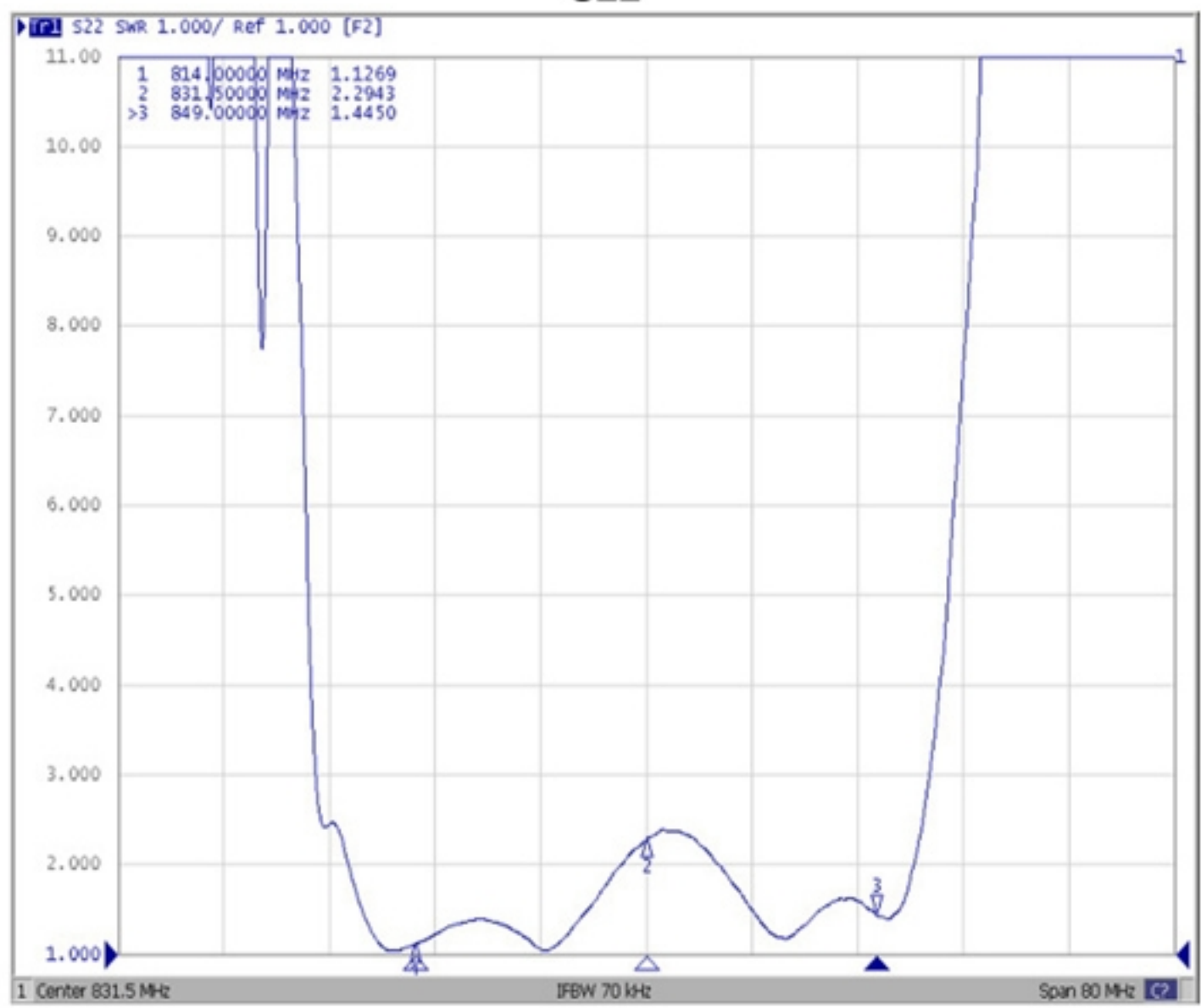


Reflection Functions:

S11



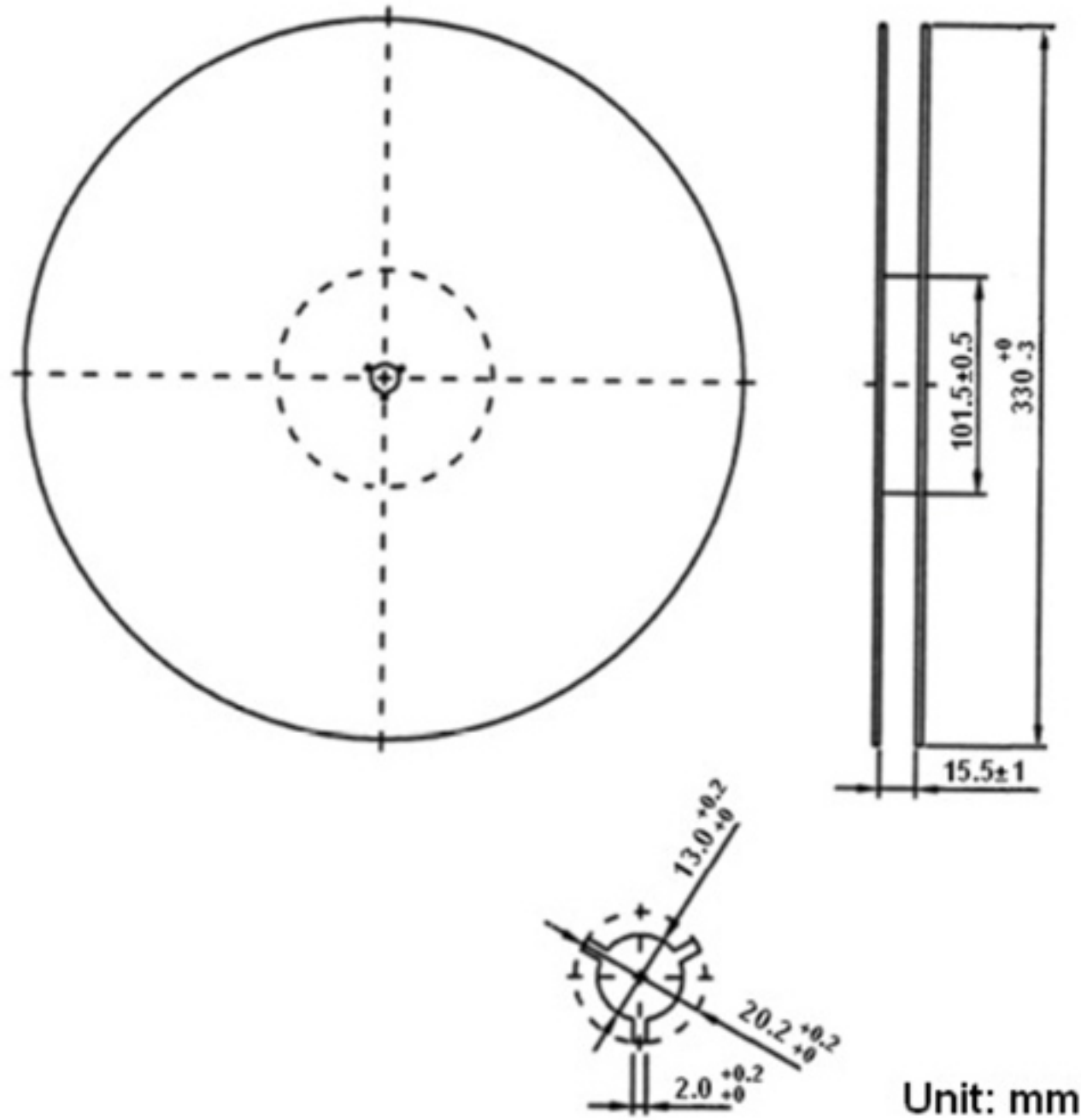
S22



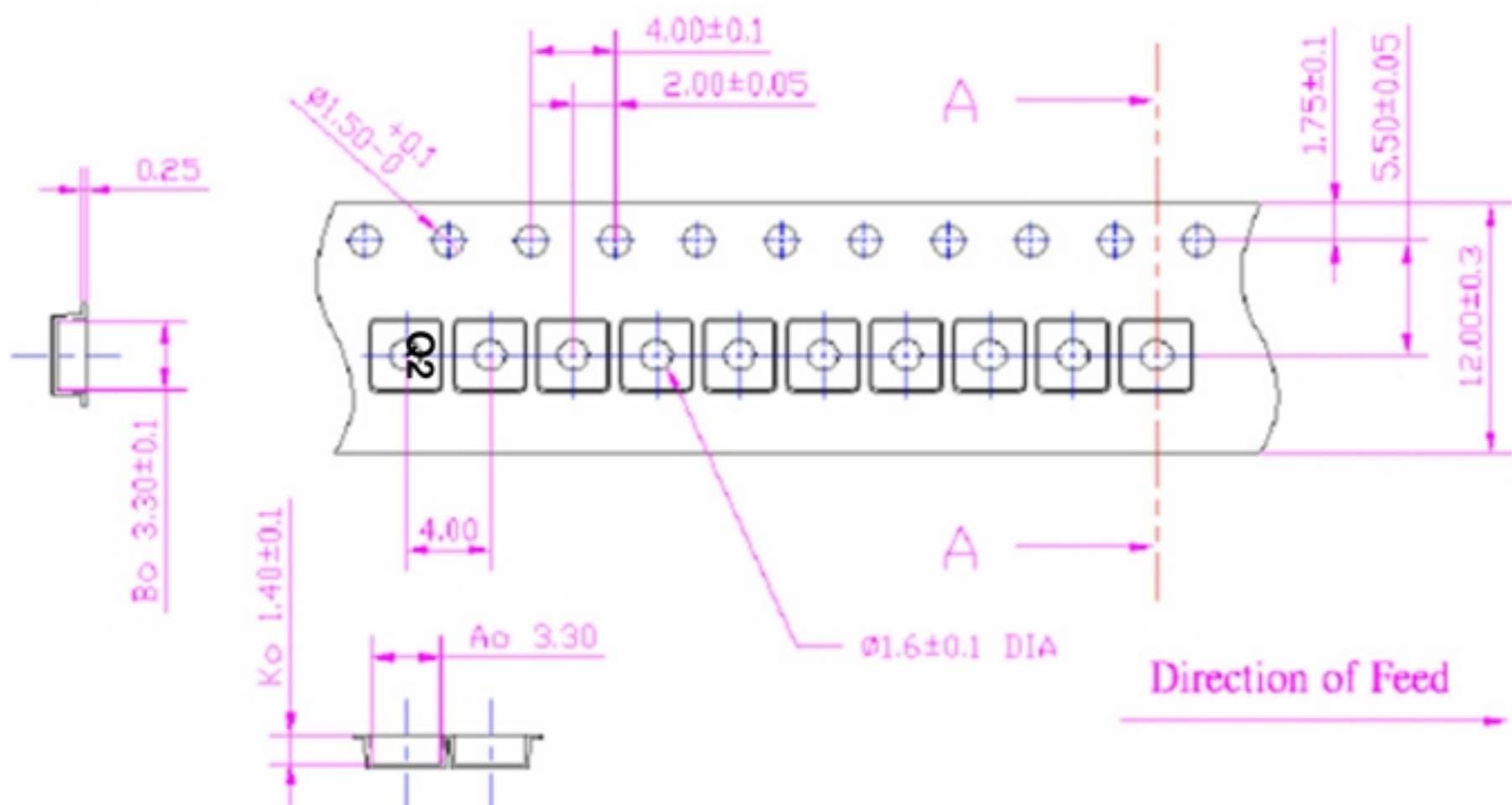
G. PACKING: (Ref. WI-75M03)

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.

