

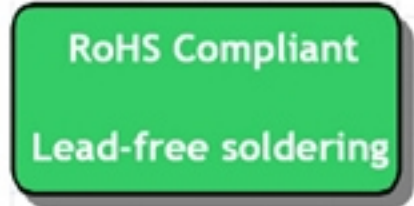
SAW Filter 413 MHz

MODEL NO.: TA1663BA3110

REV. NO.:1

A. MAXIMUM RATING:

1. Input Power Level: 20 dBm
2. DC Voltage : 3 V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensitivity Level: Level 1(**MSL1**)

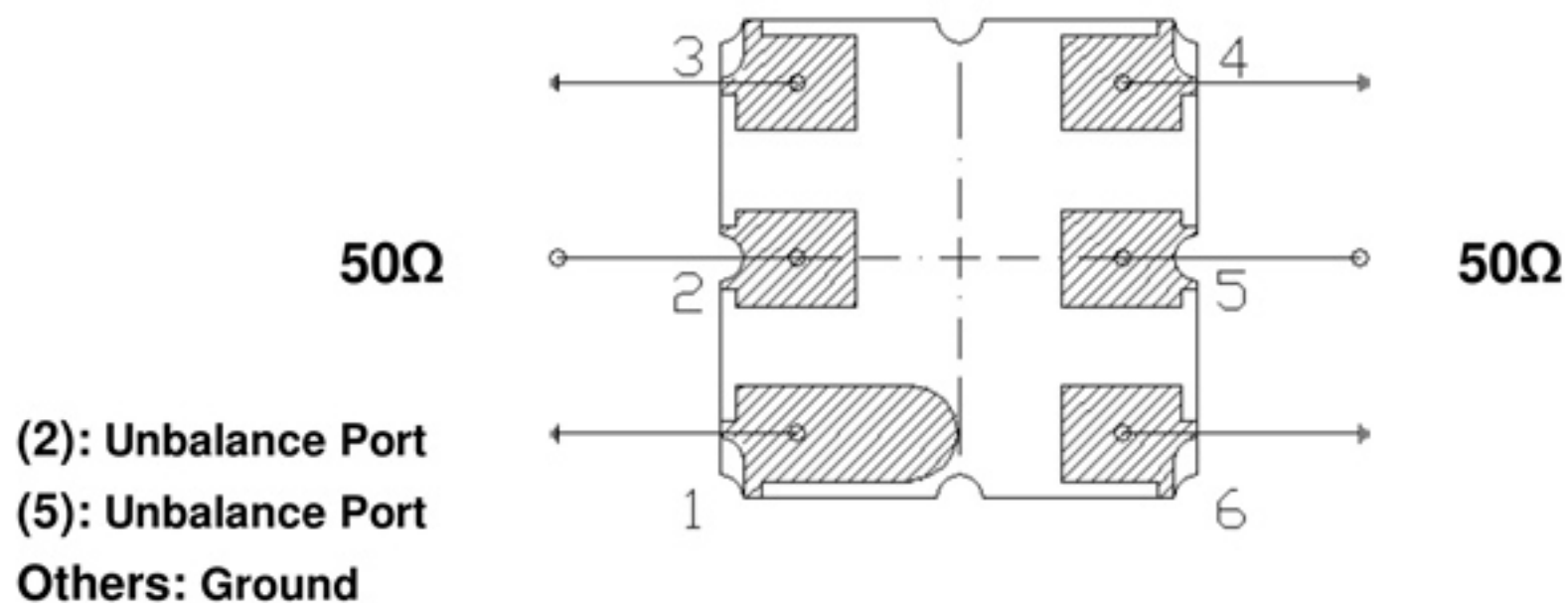


Electrostatic Sensitive Device (ESD)

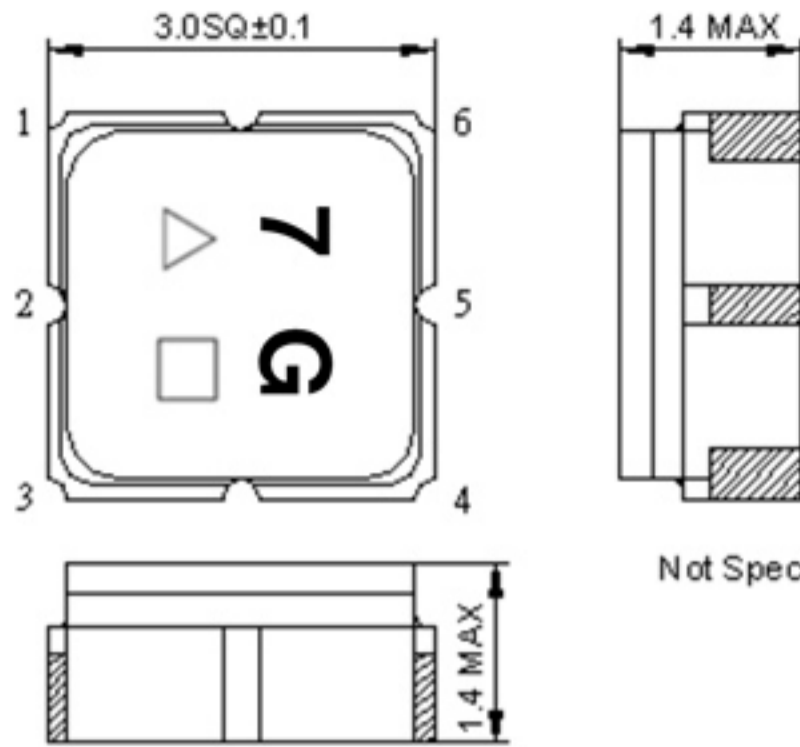
B. ELECTRICAL CHARACTERISTICS:

Item	Unit	Min.	Type.	Max.	
Center frequency F_c	MHz	-	413	-	
Insertion Loss (412~414 MHz) IL	dB	-	1.5	3.0	
Amplitude Ripple (412~414 MHz)	dB	-	0.2	1.5	
VSWR (412~414 MHz)	-	-	1.3	2.2	
Attenuation (Reference level from 0 dB)					
10 ~ 400 MHz	dB	50	56	-	
400 ~ 405 MHz	dB	10	47	-	
425 ~ 430 MHz	dB	20	37	-	
430 ~ 440 MHz	dB	30	40	-	
440 ~ 800 MHz	dB	50	59	-	
800 ~ 1000 MHz	dB	45	56	-	
Temperature coefficient of frequency	ppm/°C	-	-36	-	

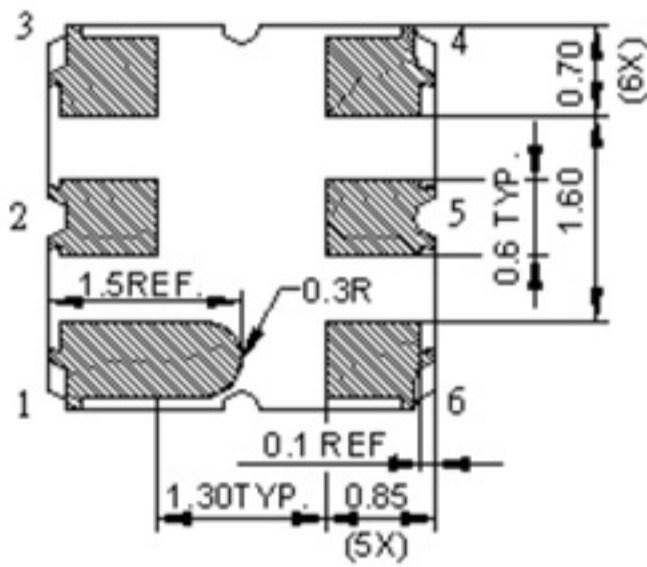
C. MEASUREMENT CIRCUIT:



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

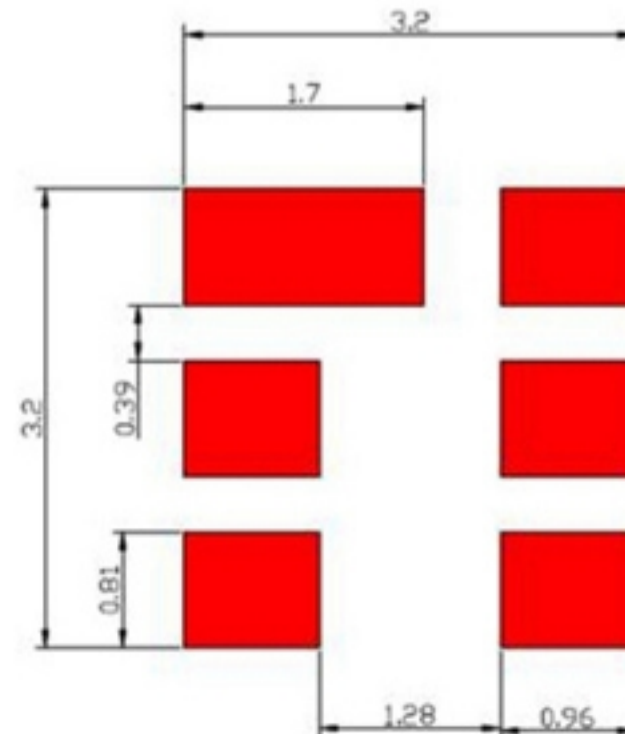
△ : Year Code (2020->0, 2021->1, ..., 2029->9, 2030->0)

□ : Date Code

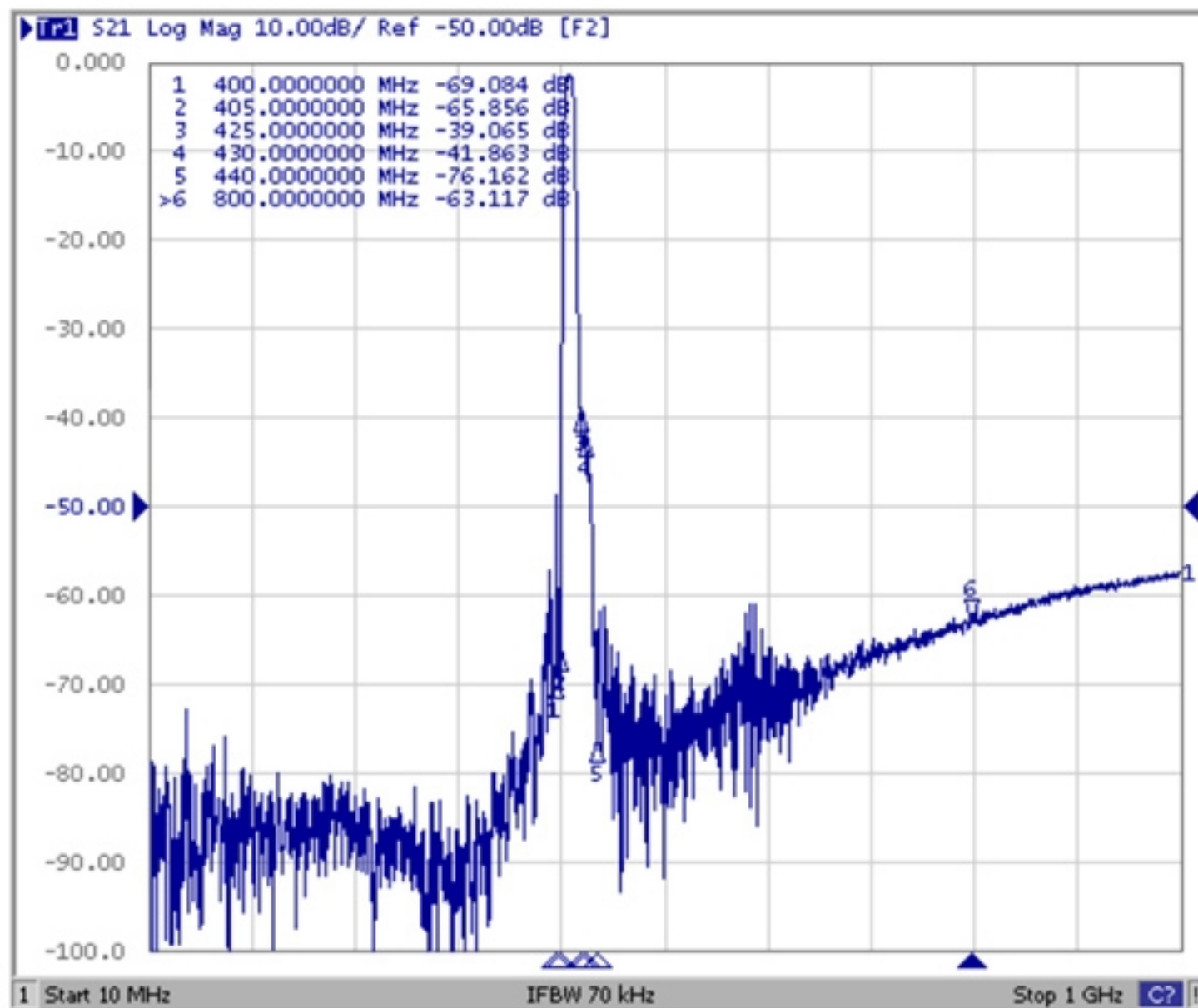
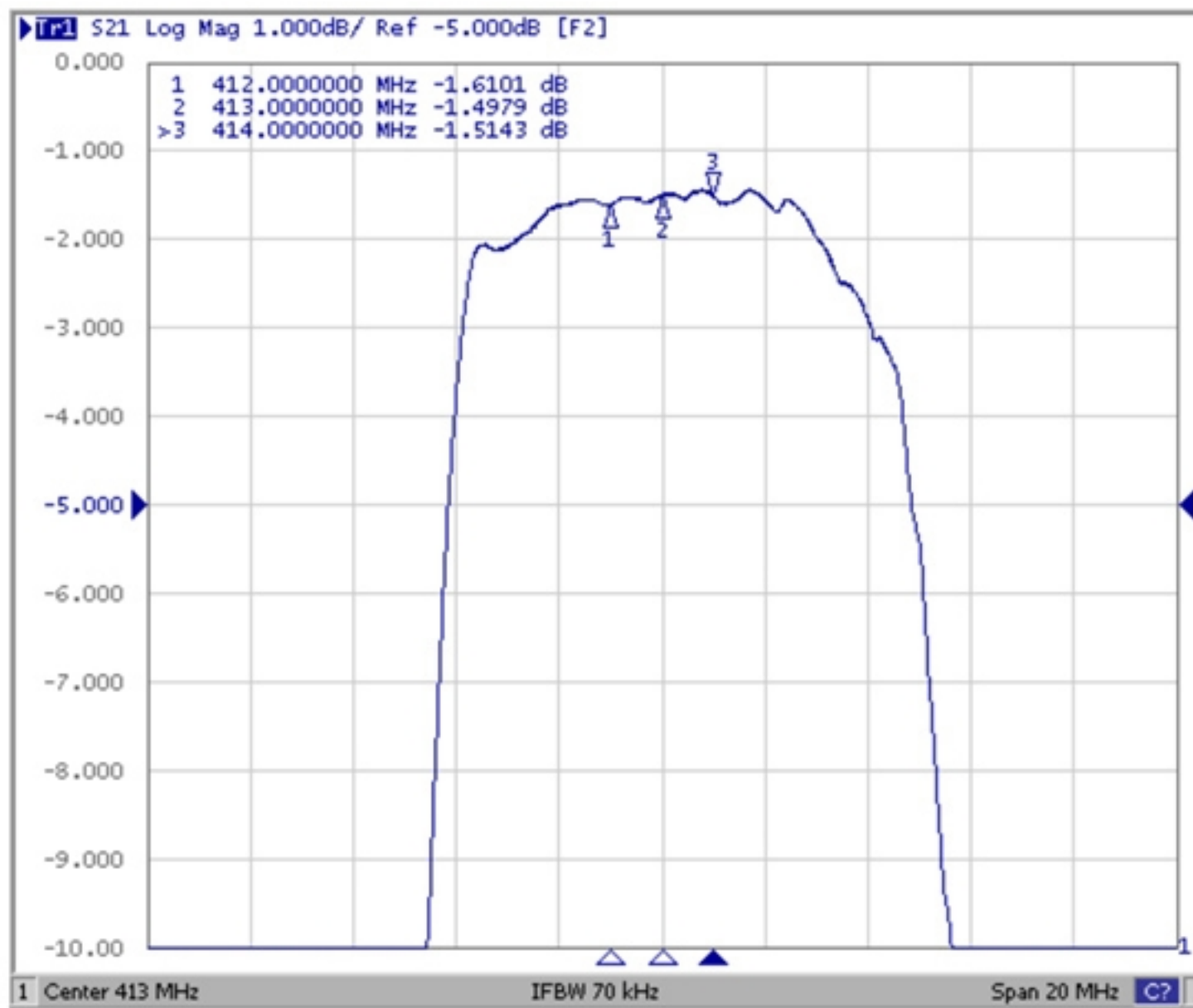
Date Code Table:

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:

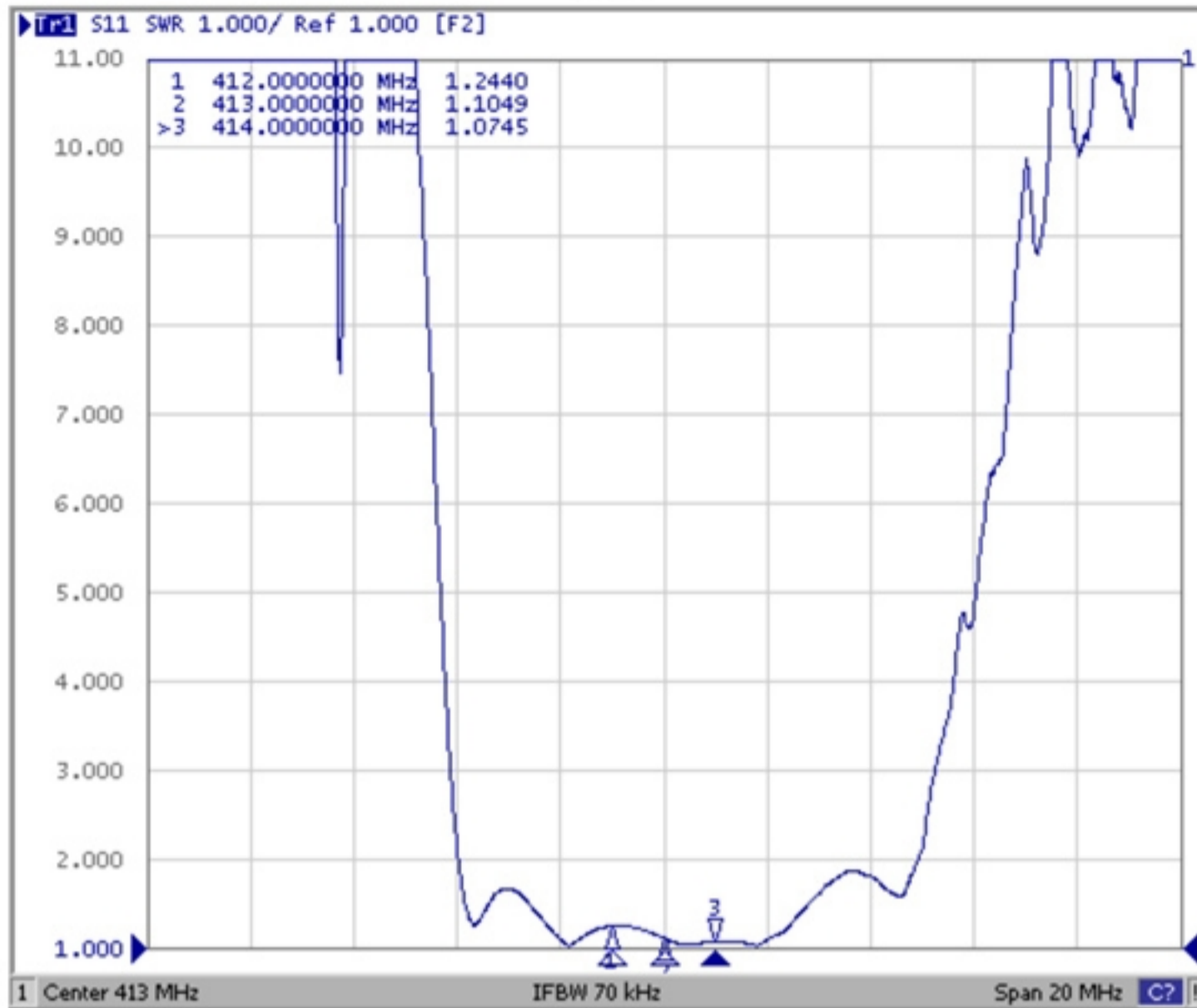


F. Frequency Characteristics:

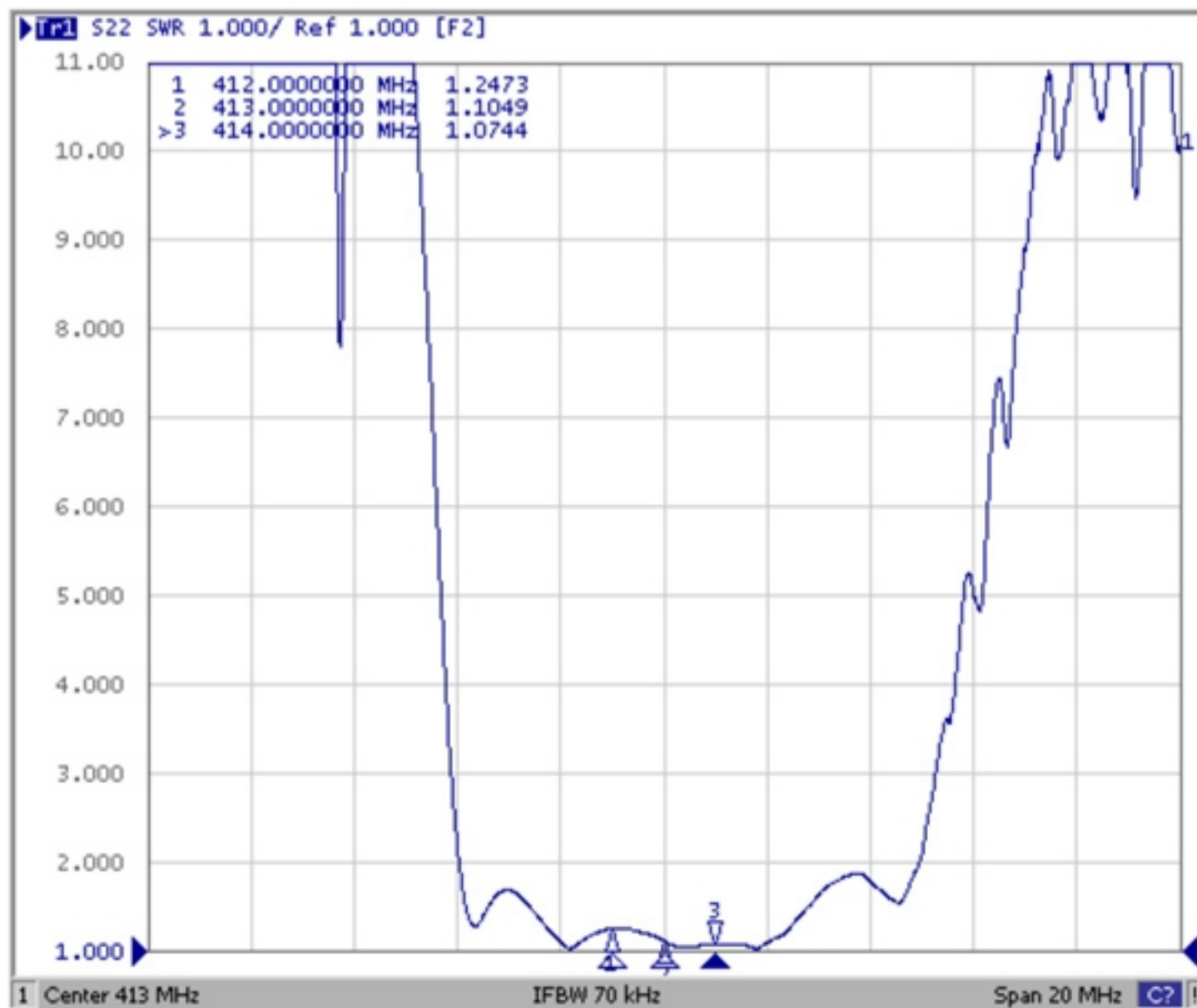


Reflection Functions:

S11



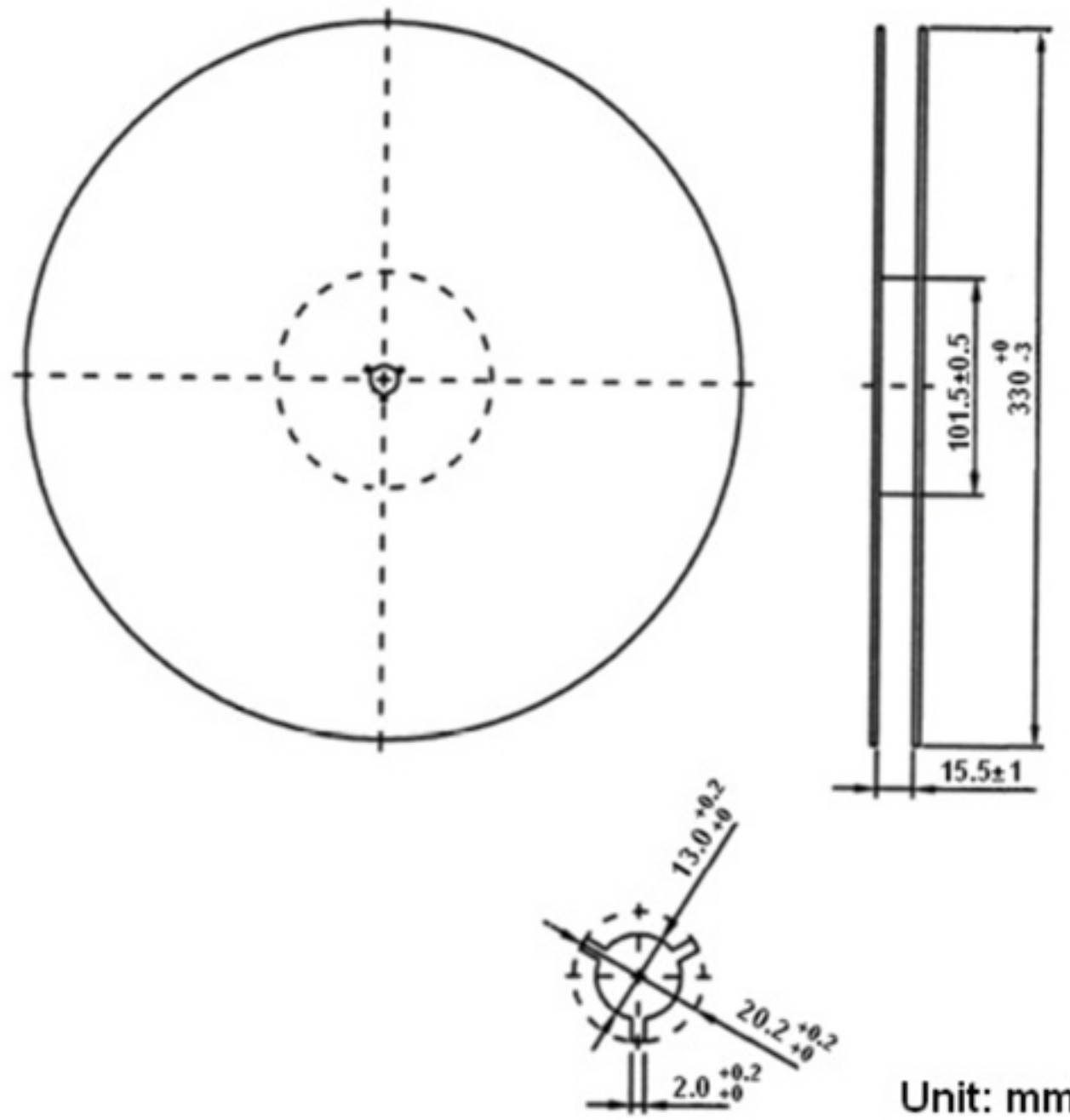
S22



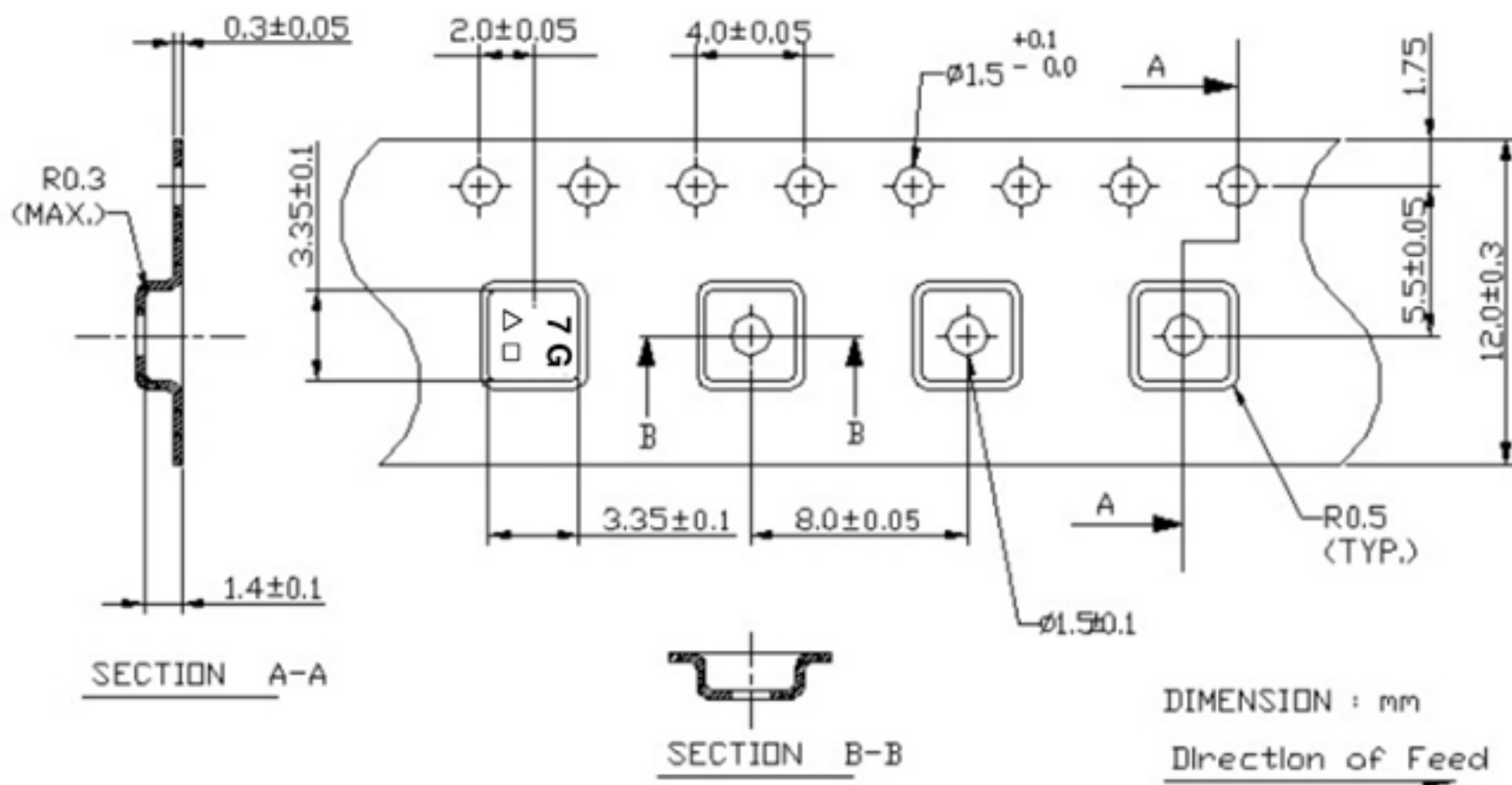
G. PACKING: (Ref. WI-75M03)

1. REEL DIMENSION

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



2. TAPE DIMENSION



H. Recommended Reflow Profile:

1. Preheating shall be fixed at 150~180°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 260°C +0/-5°C peak (20~40sec).
4. Time: 2 times.

