

# SAW Filter 1645 MHz

MODEL NO.:TA0789B

REV. NO.:1

## A. MAXIMUM RATING:

1. Input Power Level: 10 dBm
2. DC Voltage : 3V
3. Operating Temperature: -40 °C to +85 °C
4. Storage Temperature: -40 °C to +85 °C
5. Moisture Sensivity Level: Level 1
6. ESD 50V(MM) 100V(HBM)

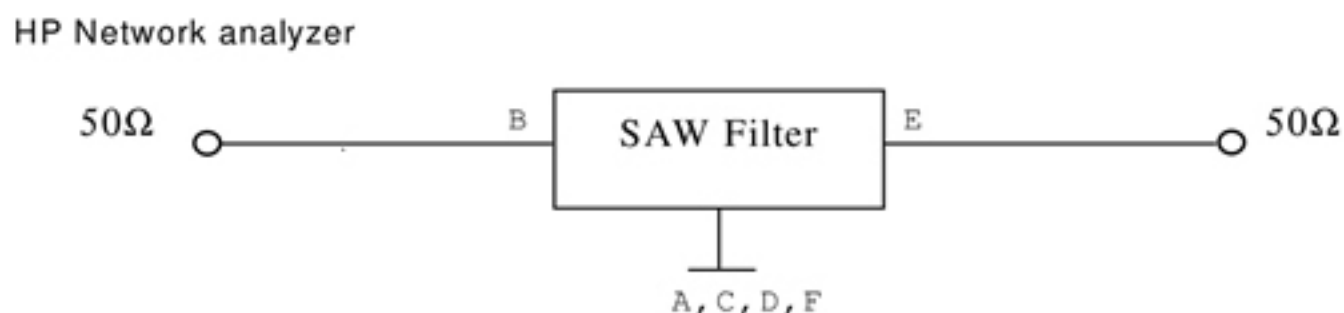
RoHS Compliant  
Lead free  
Lead-free soldering

Electrostatic Sensitive Device (ESD)

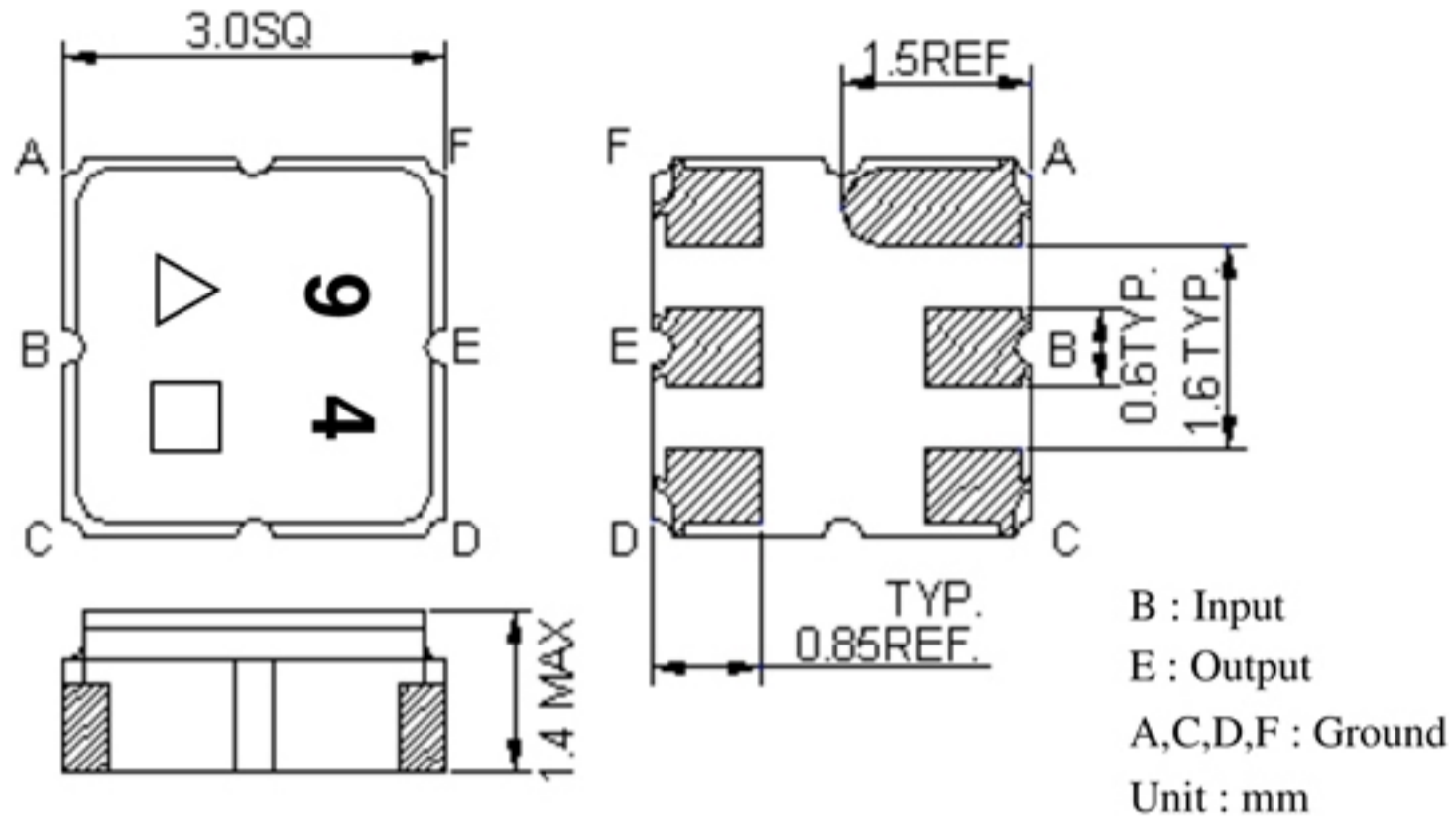
## B. ELECTRICAL CHARACTERISTICS: ( Ambient temperature : 25°C )

Item	Unit	Min.	Type.	Max.	Note
Center Frequency	Fc	MHz	-	1645	-
Min. Insertion Loss	IL	dB	-	4	5.8
Amplitude Ripple (1635.5 ~ 1654.5 MHz)		dB	-	1	2.4
VSWR (1635.5 ~ 1654.5 MHz)		-	2	2.5	-
Group Delay Variation (1635.5 ~ 1654.5 MHz)	ns	-	5	15	
<b>Attenuation</b> (Reference level from 0 dB)					
10 ~ 1580 MHz	dB	35	52	-	-
1700 ~ 3000 MHz	dB	35	46	-	-
Temperature Coefficient of Frequency			-36 Ppm/°C		

## C. MEASUREMENT CIRCUIT:



**D.OUTLINE DRAWING:**



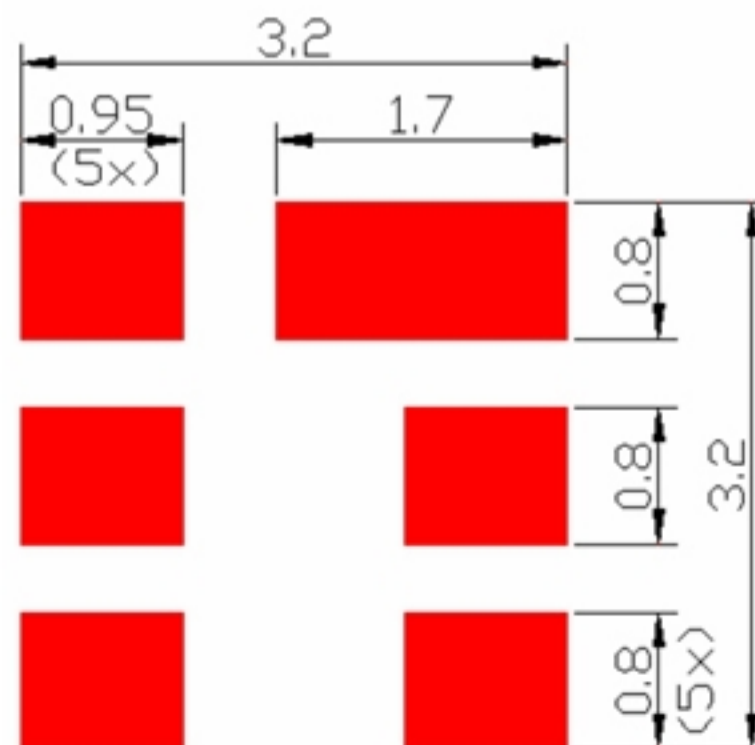
△ : Year Code (2006->6, ..., 2019->9)

□ : Date Code (Follow the table from planner each year)

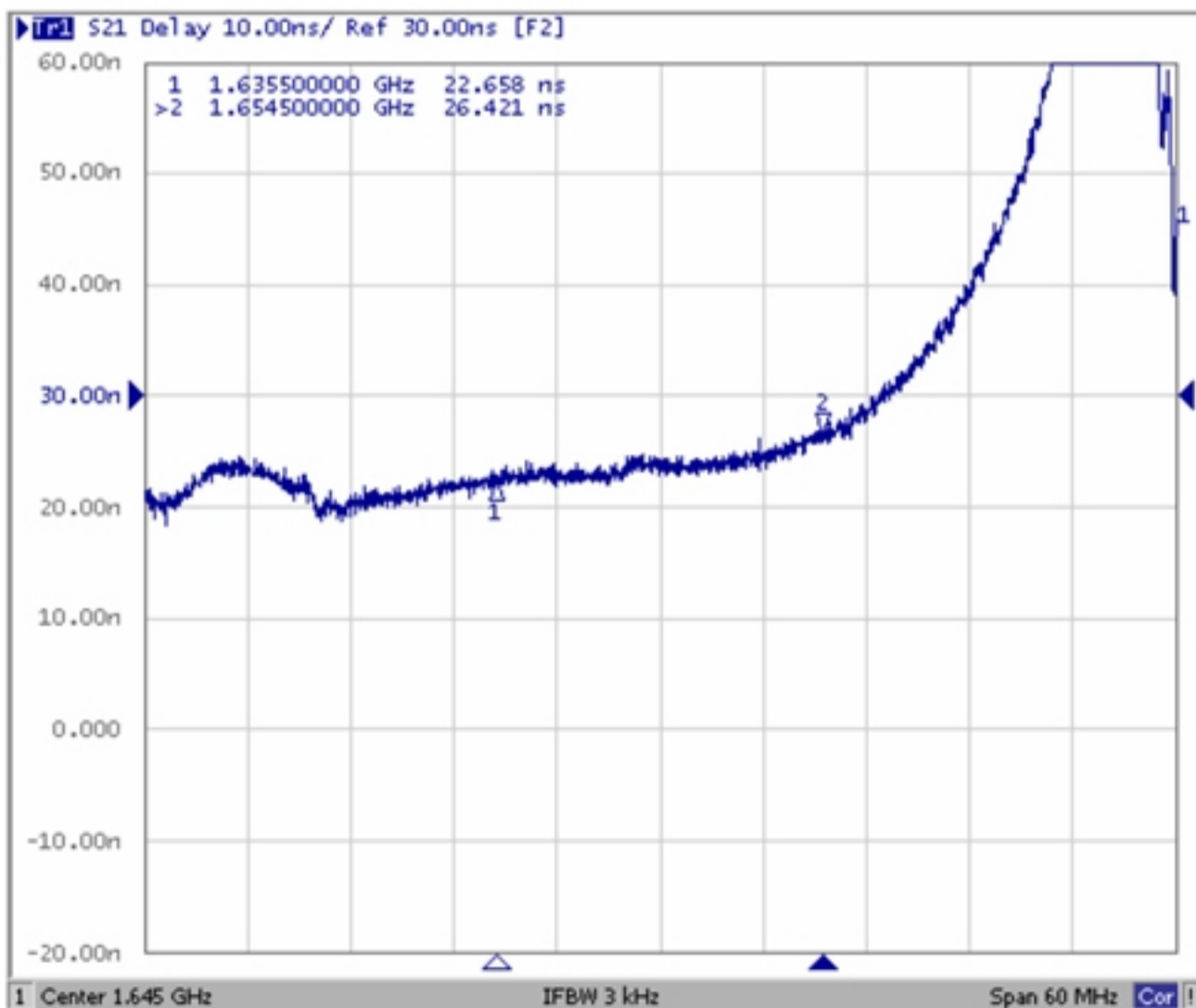
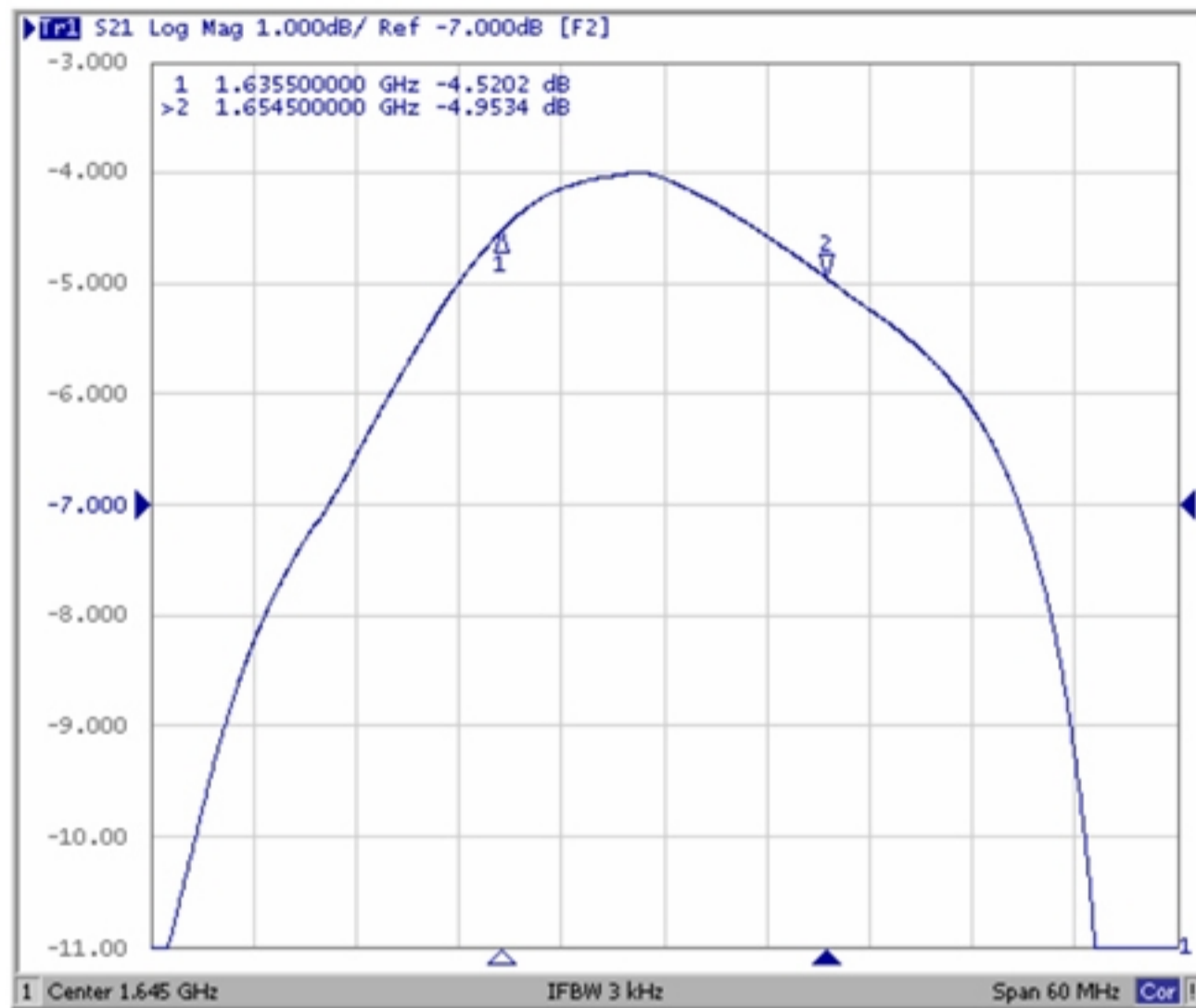
Date Code Table

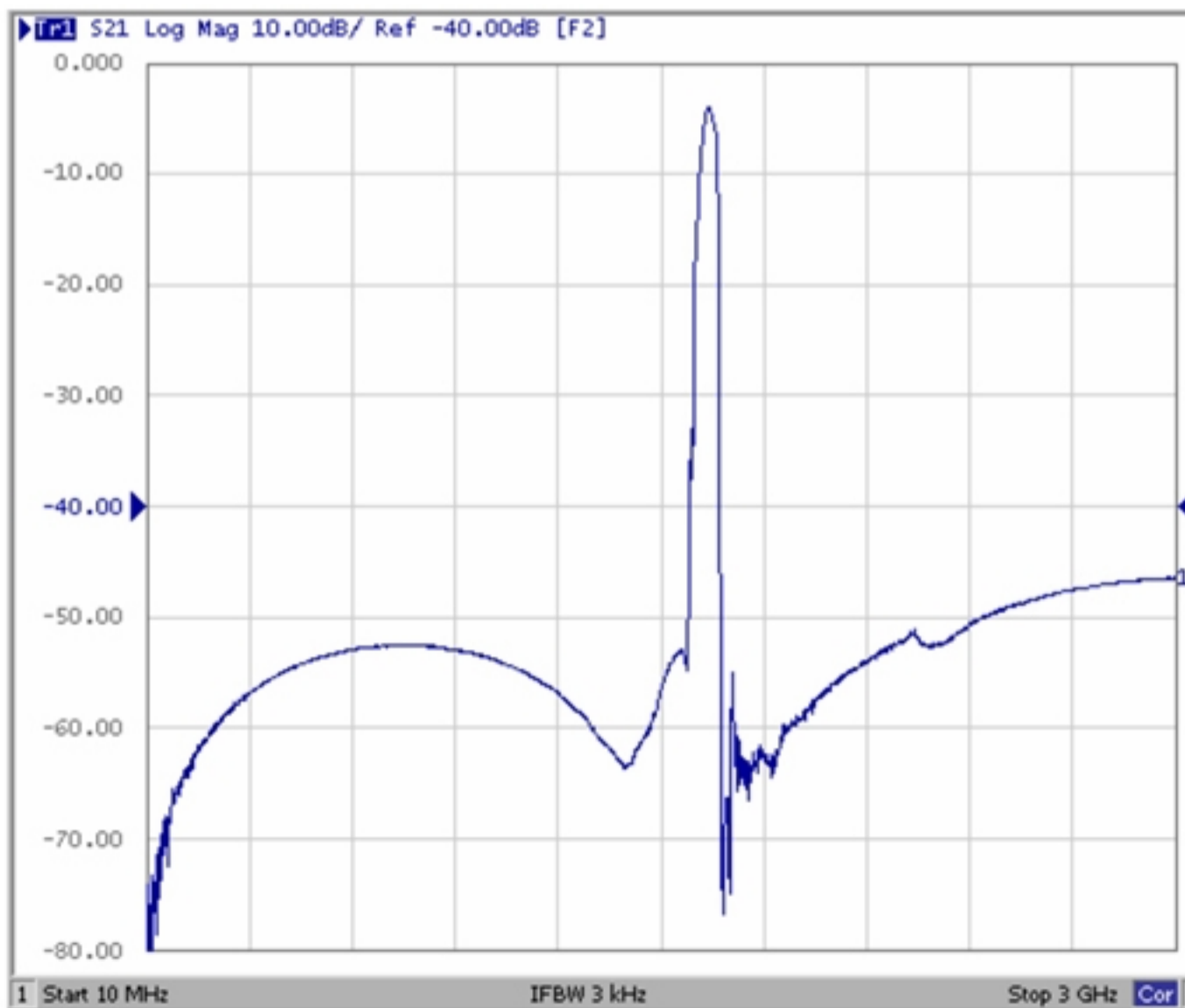
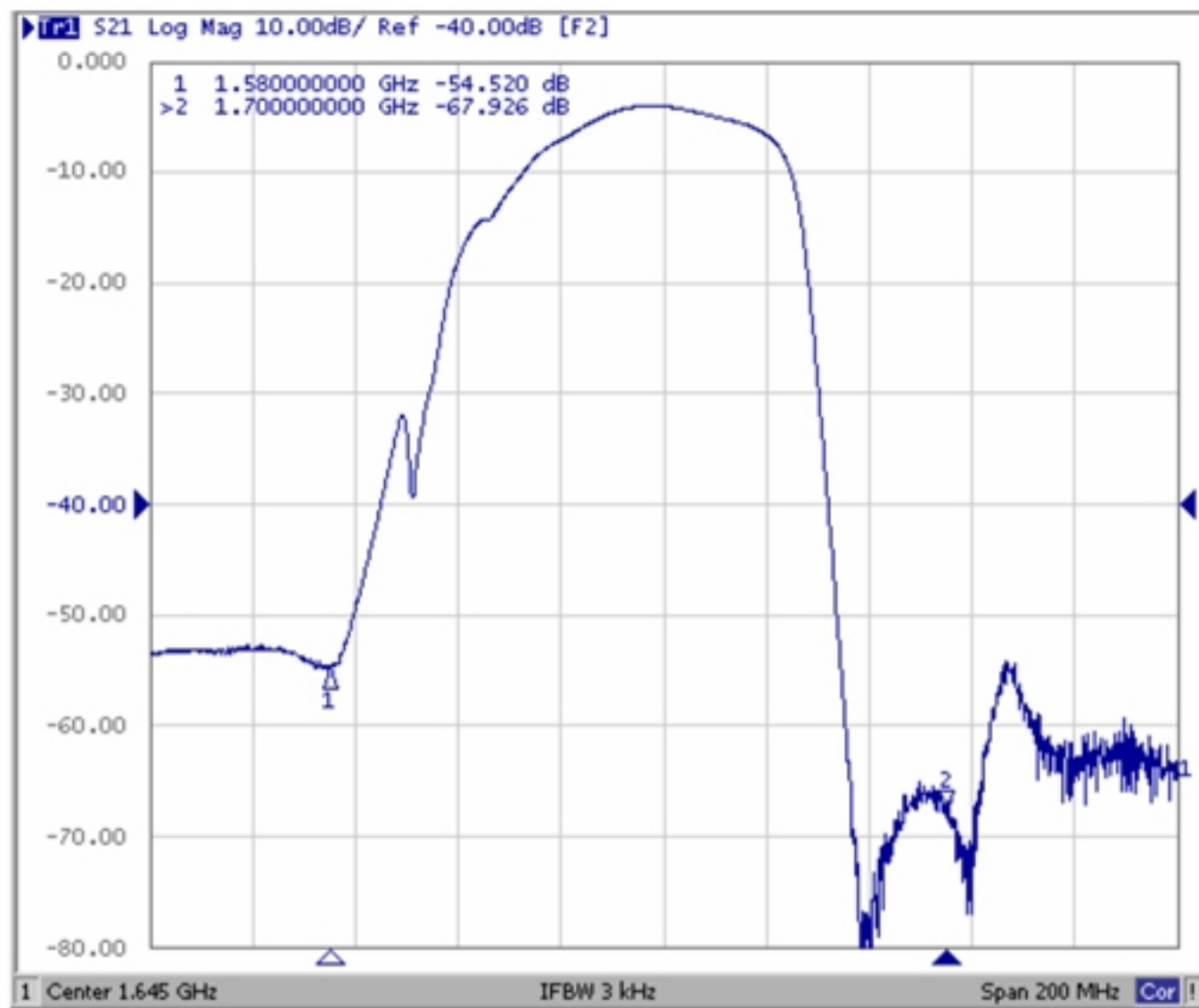
WK01	WK02	WK03	WK04	WK05	WK06	WK07	WK08	WK09	WK10	WK11	WK12	WK13
A	B	C	D	E	F	G	H	I	J	K	L	M
WK14	WK15	WK16	WK17	WK18	WK19	WK20	WK21	WK22	WK23	WK24	WK25	WK26
N	O	P	Q	R	S	T	U	V	W	X	Y	Z
WK27	WK28	WK29	WK30	WK31	WK32	WK33	WK34	WK35	WK36	WK37	WK38	WK39
a	b	c	d	e	f	g	h	i	j	k	l	m
WK40	WK41	WK42	WK43	WK44	WK45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

**E. PCB Footprint:**



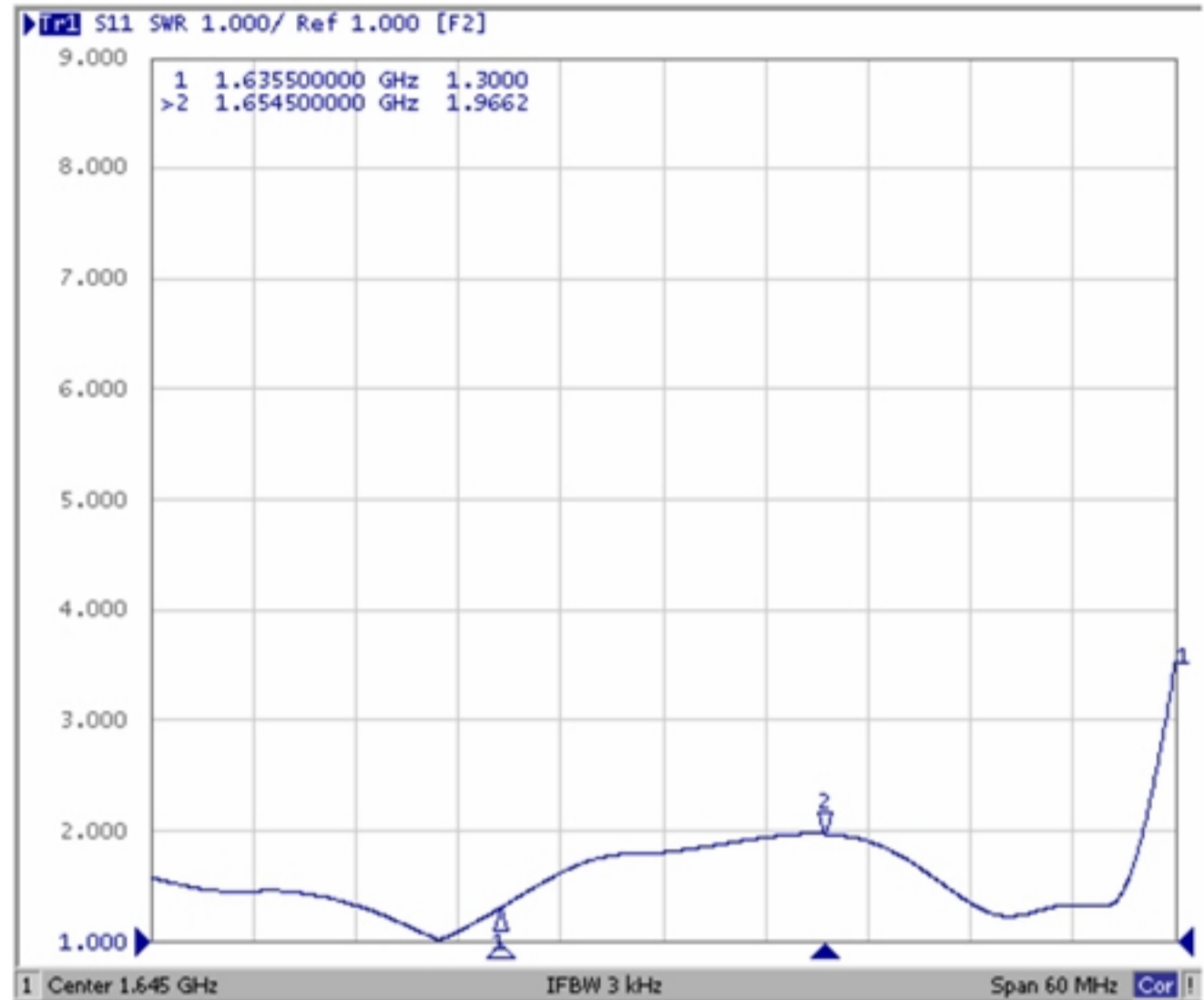
## F. Frequency Characteristics :



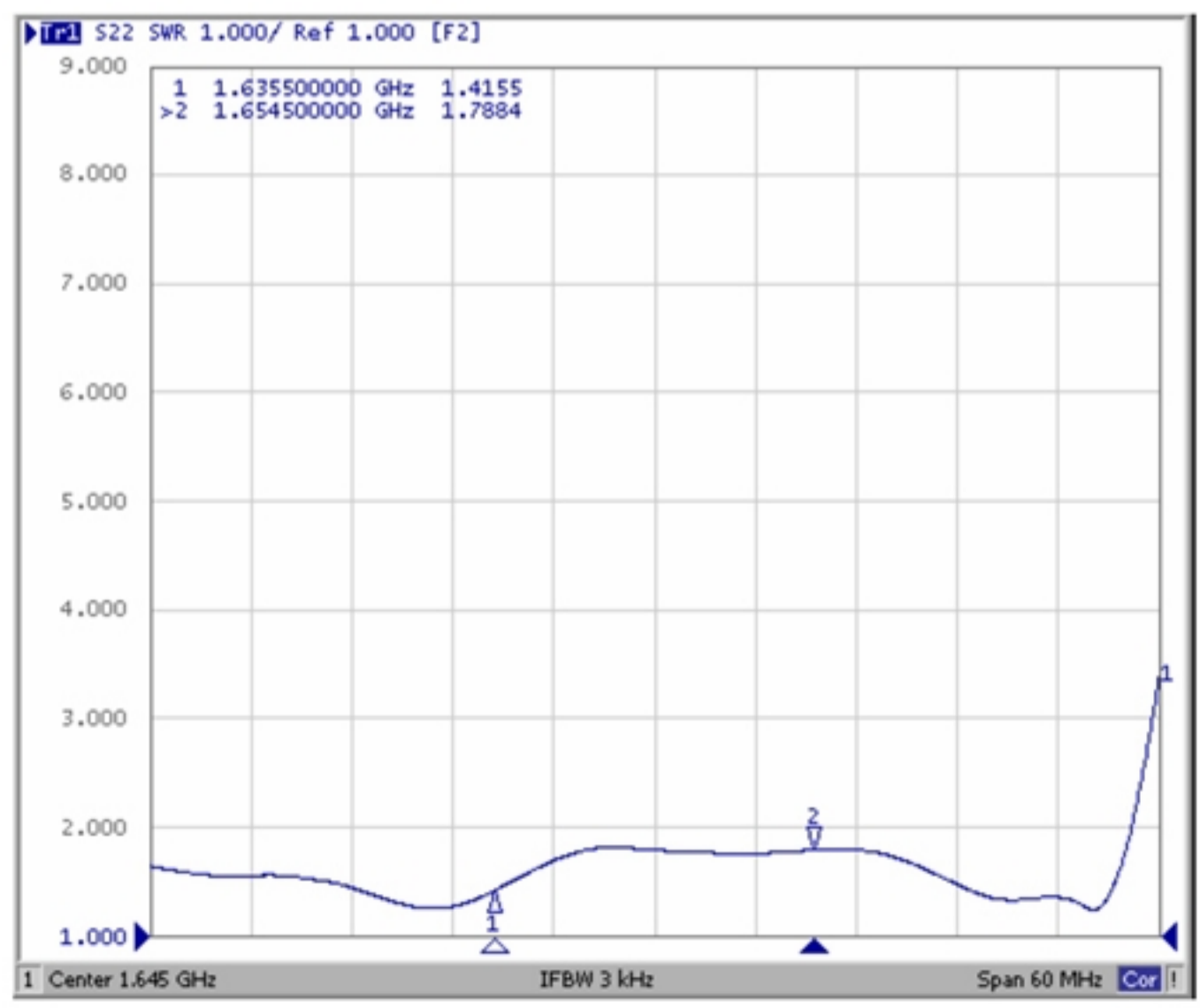


Reflection Functions :

S11



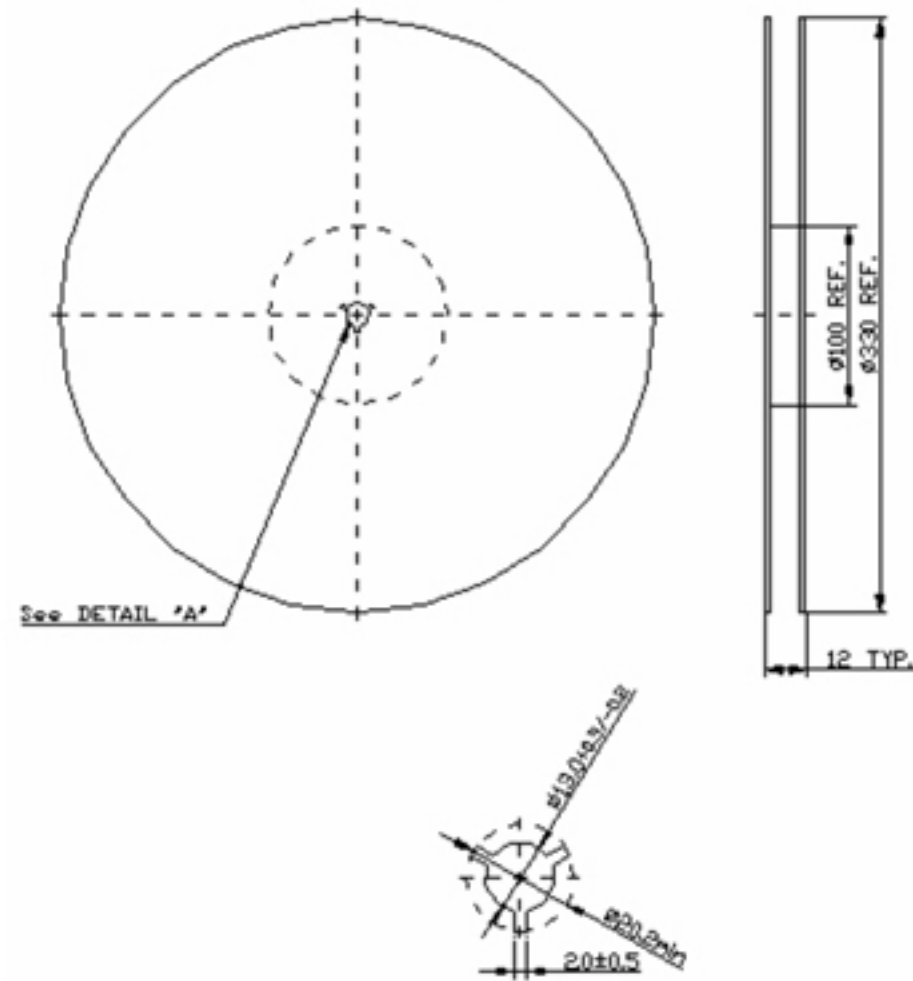
S22



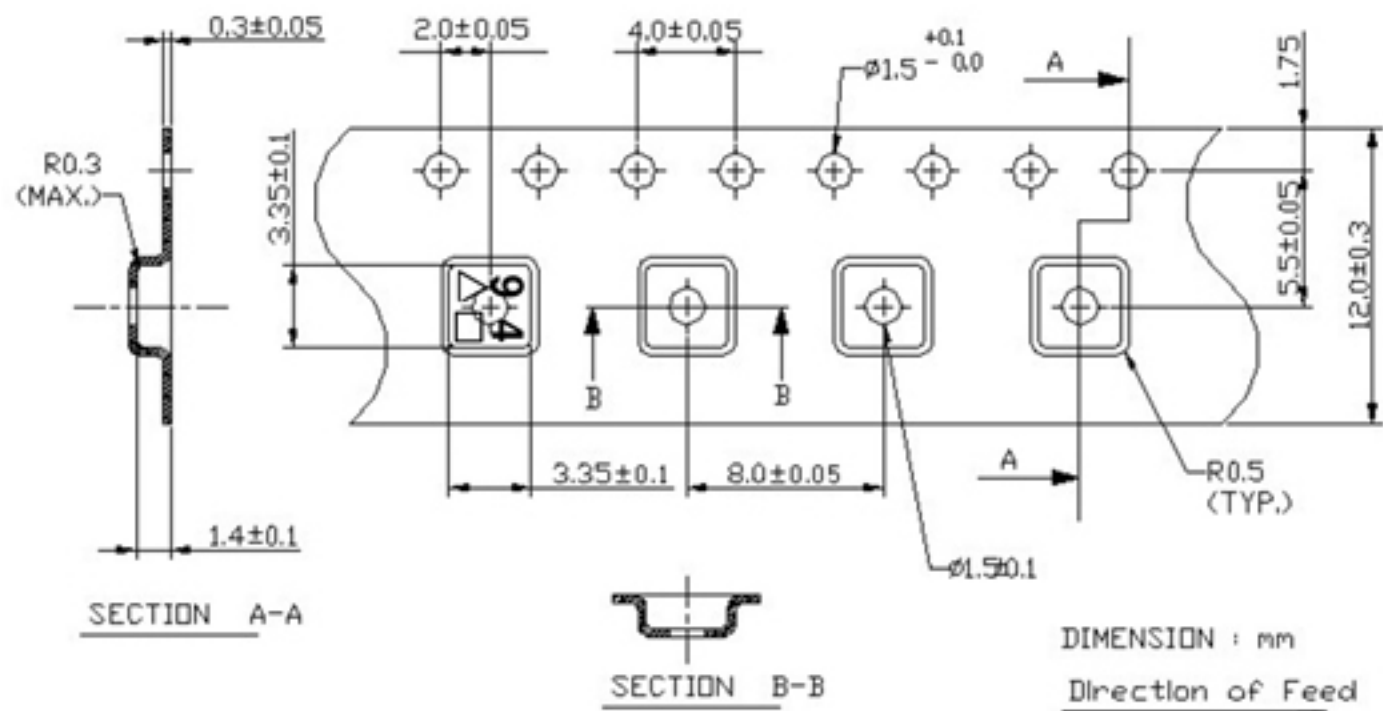
## G. PACKING:

### 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 60~90 seconds.
2. Ascending time to preheating temperature  $150^{\circ}\text{C}$  shall be 30 seconds min.
3. Heating shall be fixed at  $220^{\circ}\text{C}$  for 50~80 seconds and at  $260^{\circ}\text{C} +0/-5^{\circ}\text{C}$  peak (20~40sec).
4. Time: 2 times.

