



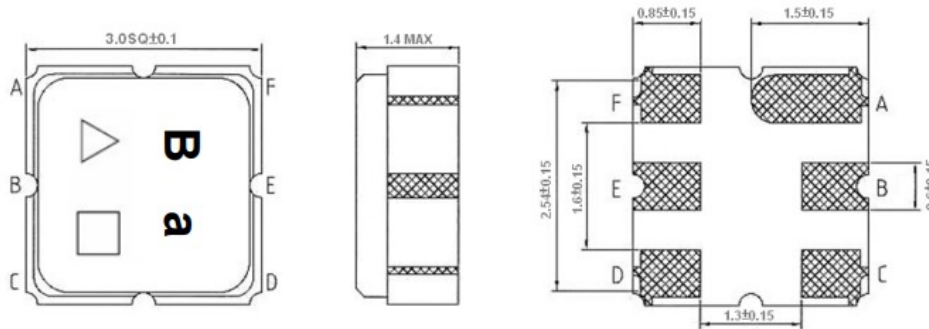
# **PRODUCT SPECIFICATION FOR INFORMATION**

FINAL SPECIFICATION

**Product Name: SAW Filter**

**Part No: HD34491**

### ■ Mechanical Drawing



**B: Input**  
**E: Output**  
**A, C, D, F: Ground**  
**Unit: mm**  
**△ : Year Code (2011->1, 2012->2, ..., 2019->9, 2020->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

**Note**  
**1. Connector: SMD**  
**2. Finish: Silver plated**

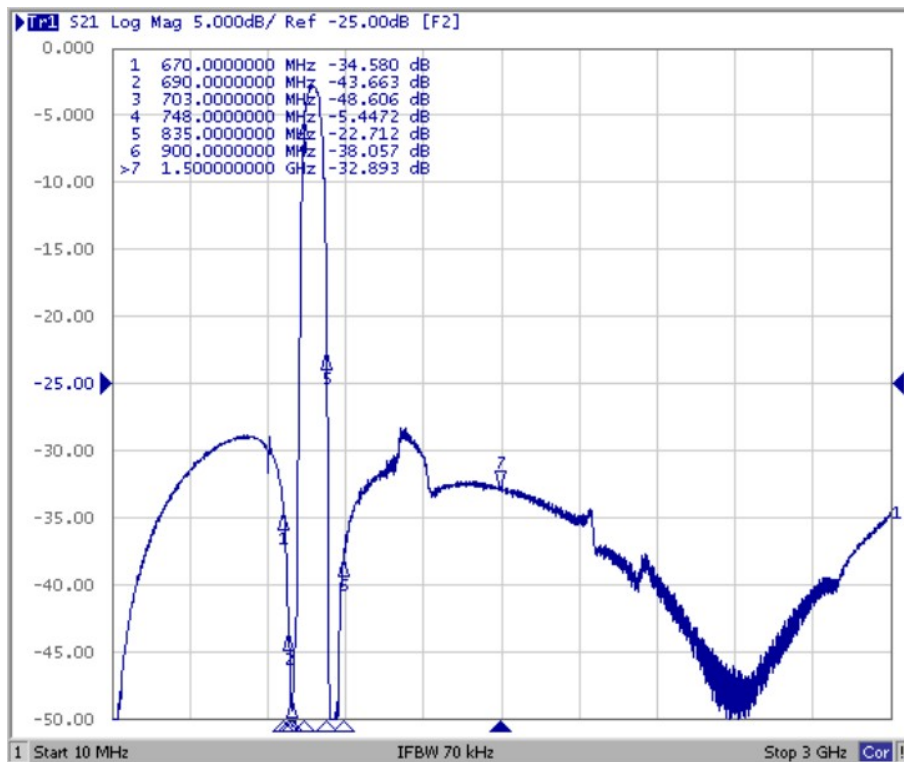
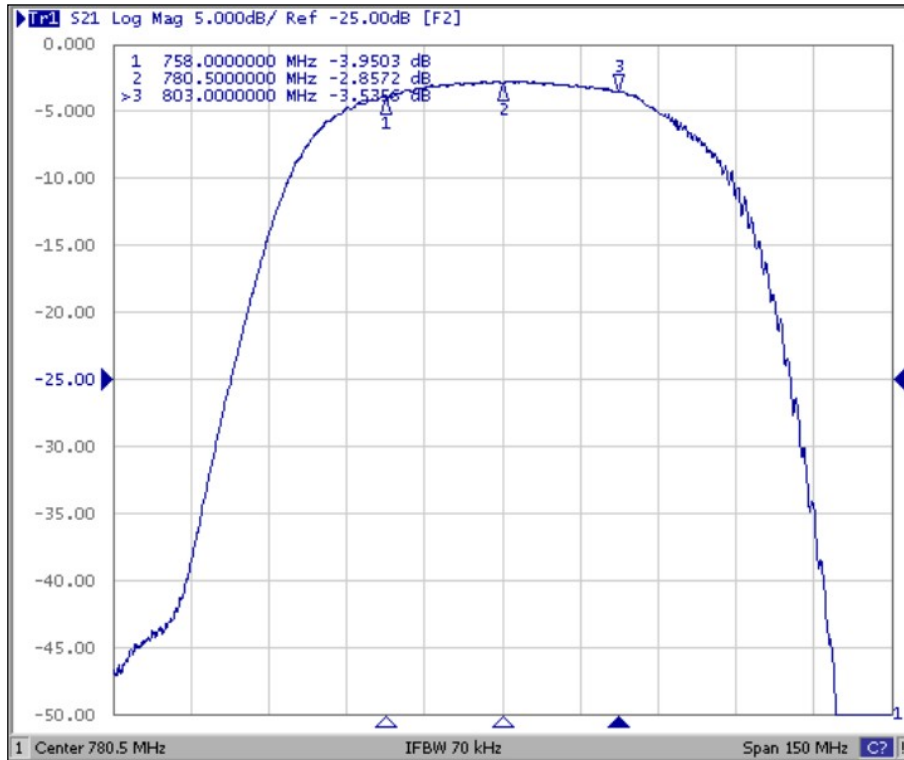
### ■ Electrical Specification

Parameter	Specification	Remark
1. Center Frequency	780.5MHz	
2. Bandwidth [BW]	$F_c \pm 22.5\text{MHz}$ [758~803MHz]	
3. Insertion Loss in BW	4.5dB Max.	
4. Amplitude Ripple in BW	2.0dB Max.	
5. Group Delay Ripple in BW	35ns Max.	
6. VSWR in BW	2.5:1 Max.	
7. In/Out Impedance	50Ω	
8. Attenuation [Absolute Value]	24dB Min.@ DC~670MHz	
	28dB Min.@ 670~690MHz	
	2dB Min.@ 703~748MHz	
	5dB Min.@ 835~900MHz	
	24dB Min.@ 900~1500MHz	
	17dB Min.@ 1500~3000MHz	
9. Temperature Coefficient of Frequency	-80ppm/k	
10. Input Power Level	10dBm	
11. DC Voltage	5V	
12. Operating Temperature	-30°C to +85°C	
13. Storage Temperature	-40°C to +85°C	

Remarks: This is a preliminary datasheet for reference.

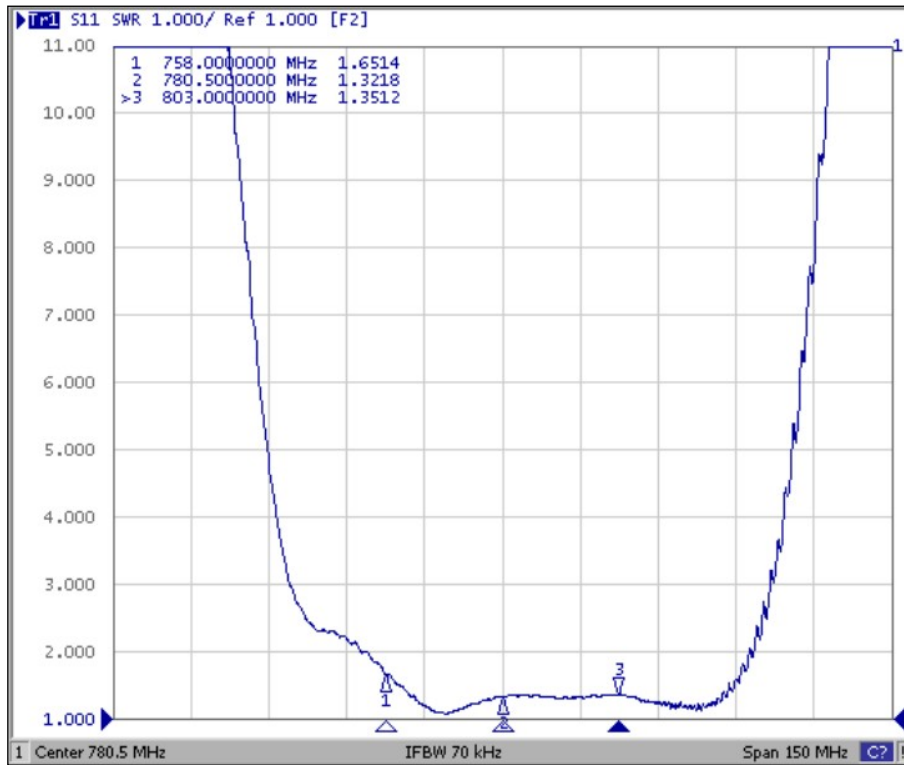
■ Simulation Data

1) Transfer Functions

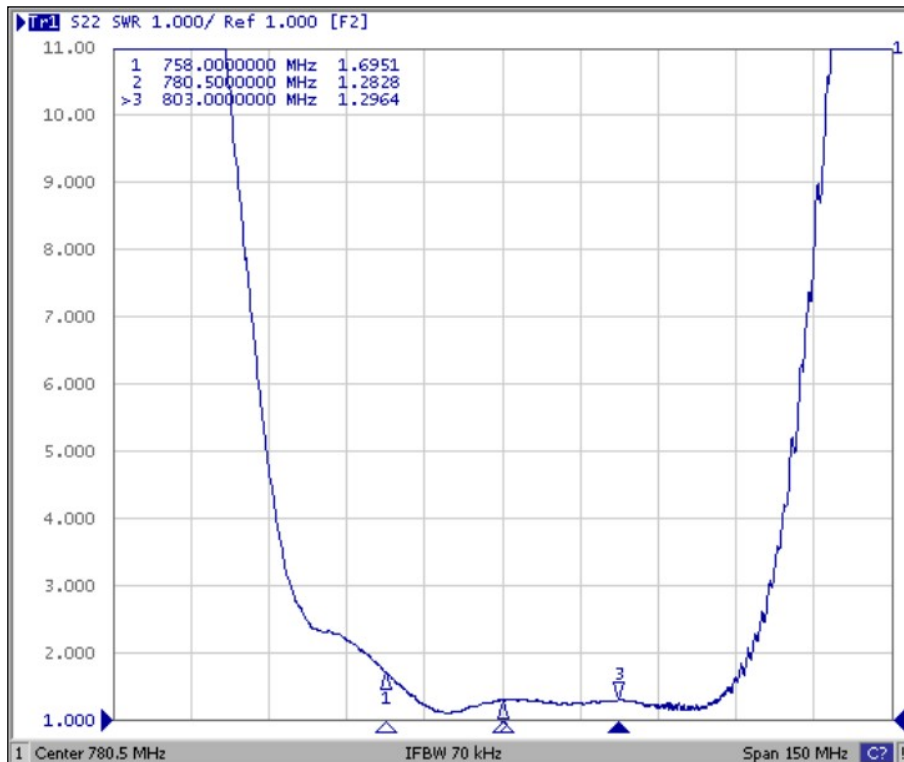


## 2) Reflections Functions

**S11**



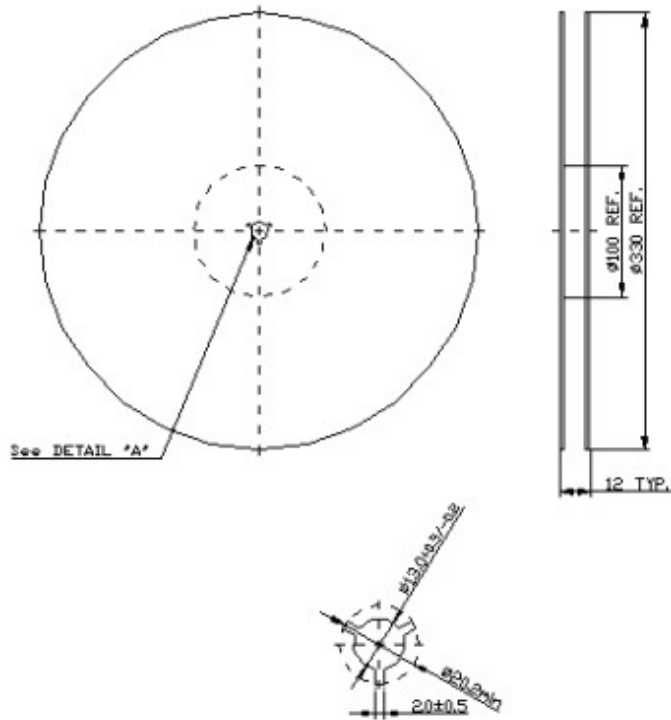
**S22**



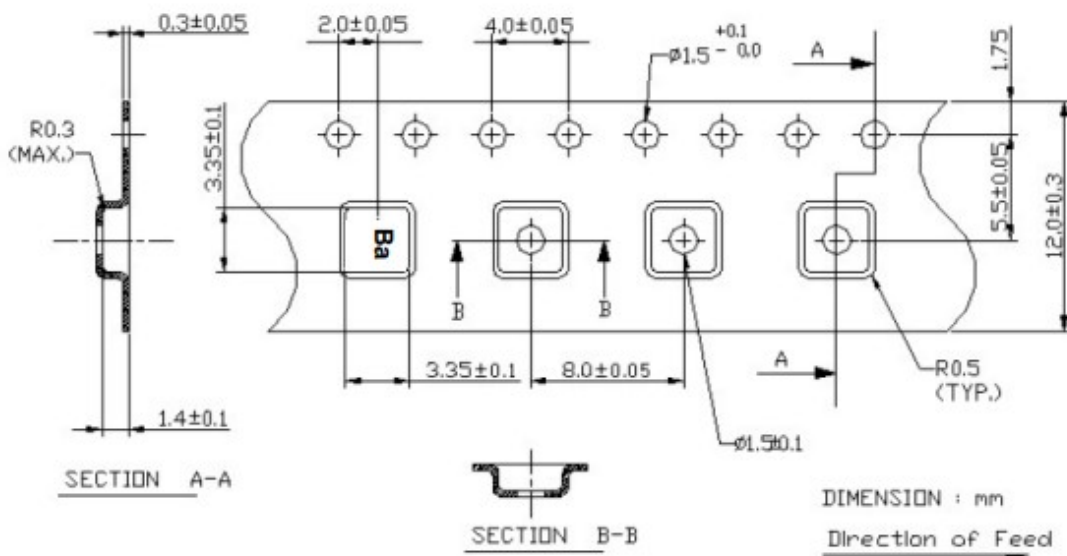
■ Packing

1. REEL DIMENSION

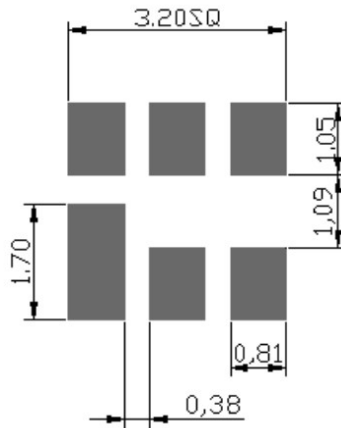
(Please refer to FR-75D10 for packing quantity)



2. TAPE DIMENSION



■ **Recommended PCB Board Pattern**



■ **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.

