

PRODUCT SPECIFICATION FOR INFORMATION

FINAL SPECIFICATION

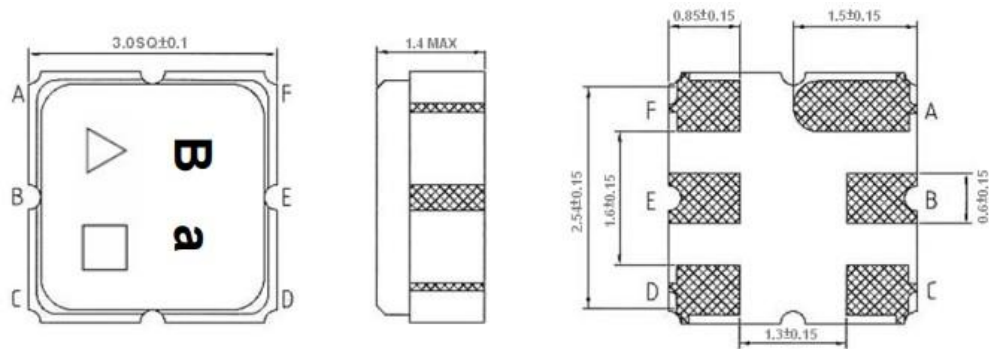
Product Name: SAW Filter

Part No: MSA-C780.5_45MD-A-R0

■ History List

No.	Rev. No.	Description	Date	Author	Final Approver
1	R0	Draft	2021.12.21	Bryan Jeon	Michael Jeon

■ 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

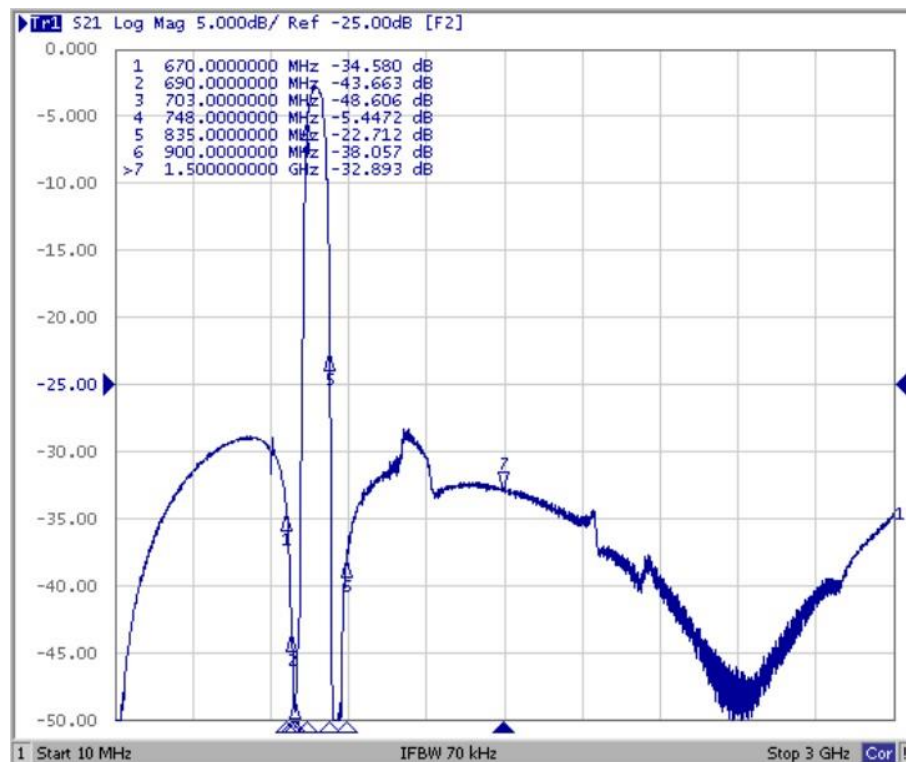
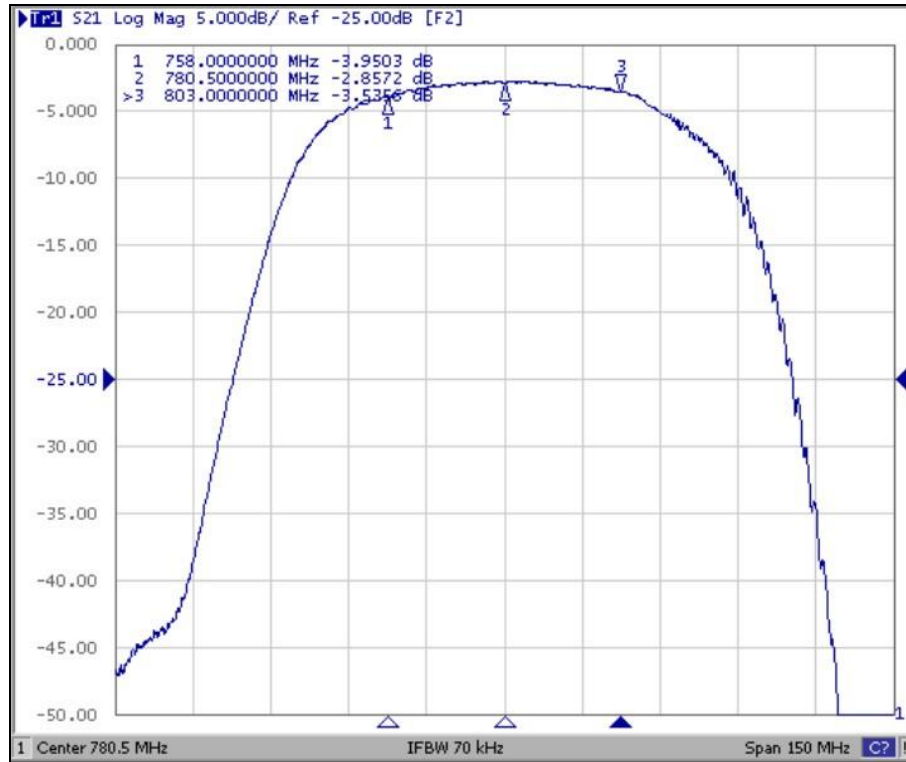
■ Electrical Specification

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.

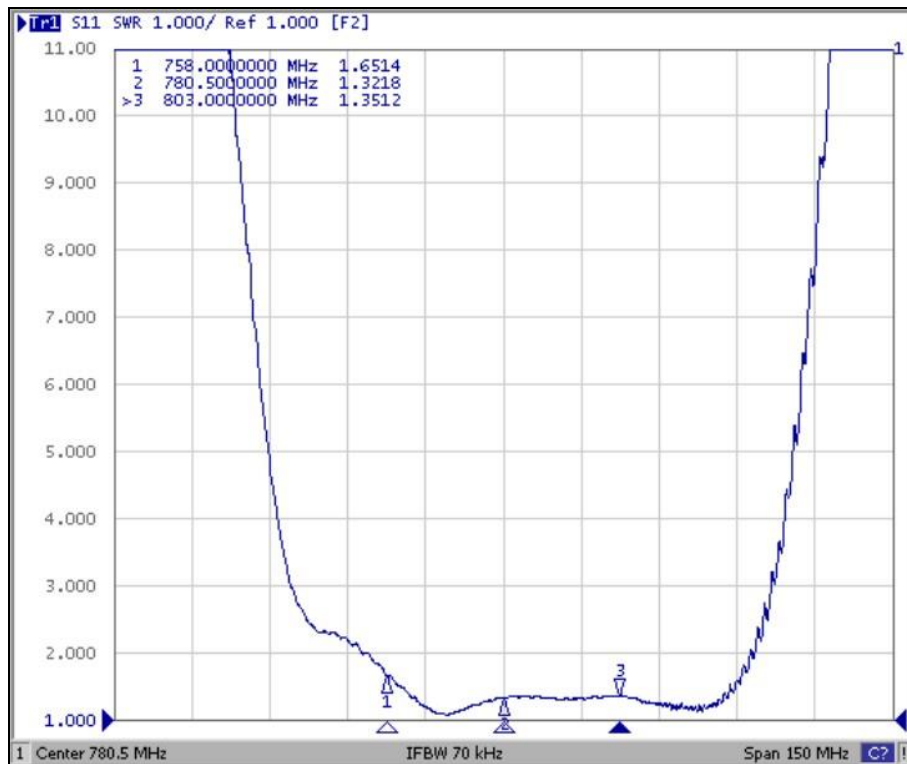
■ Simulation Data

1) Transfer Functions

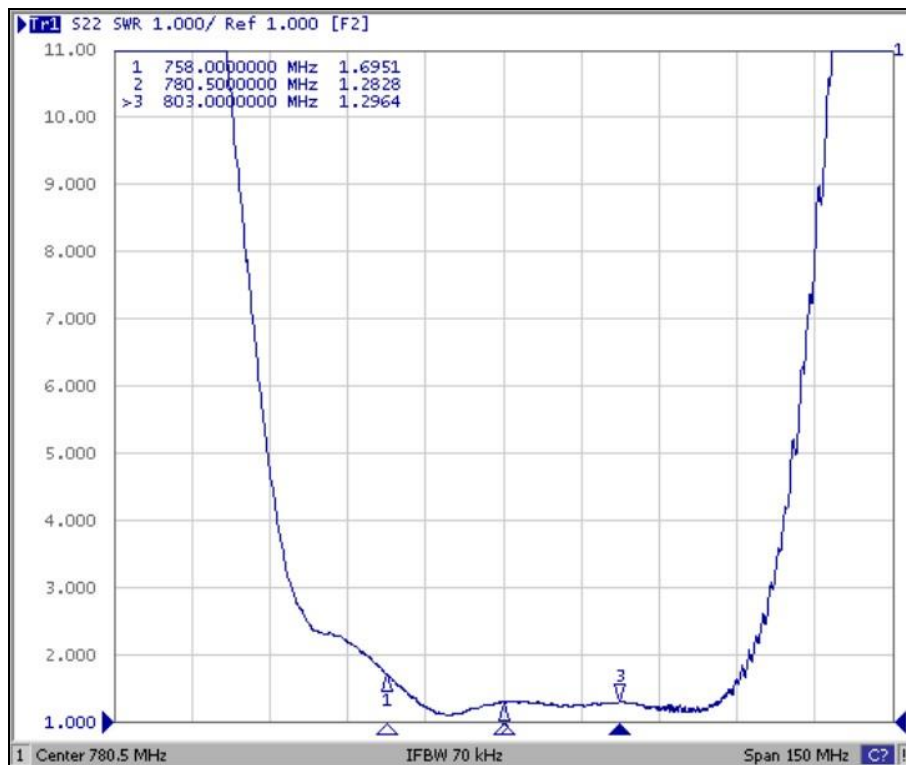


2) Reflections Functions

S11



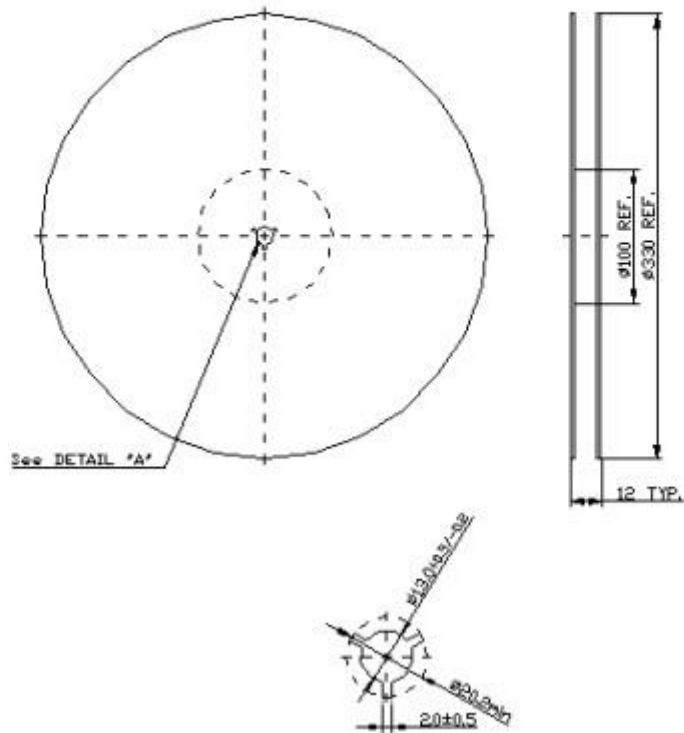
S22



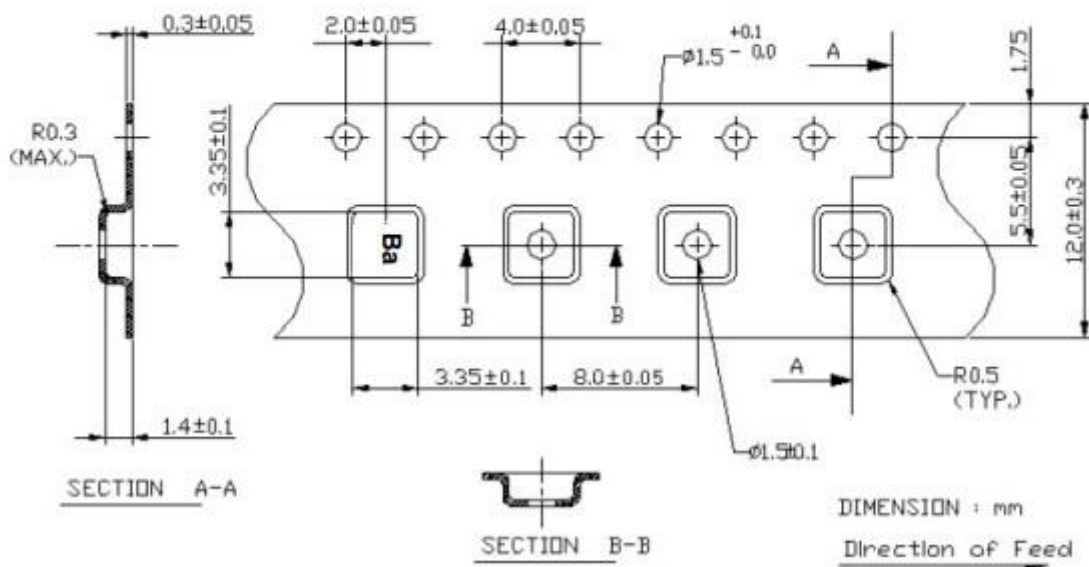
■ Packing

1. REEL DIMENSION

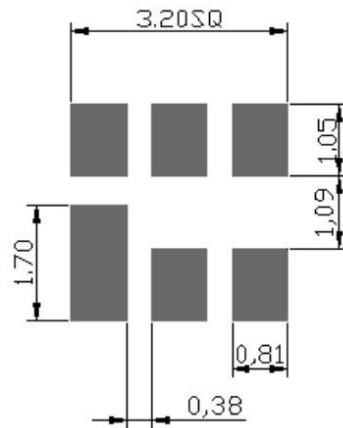
(Please refer to FR-75D10 for packing quantity)



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.

