

PRODUCT SPECIFICATION FOR INFORMATION

FINAL SPECIFICATION

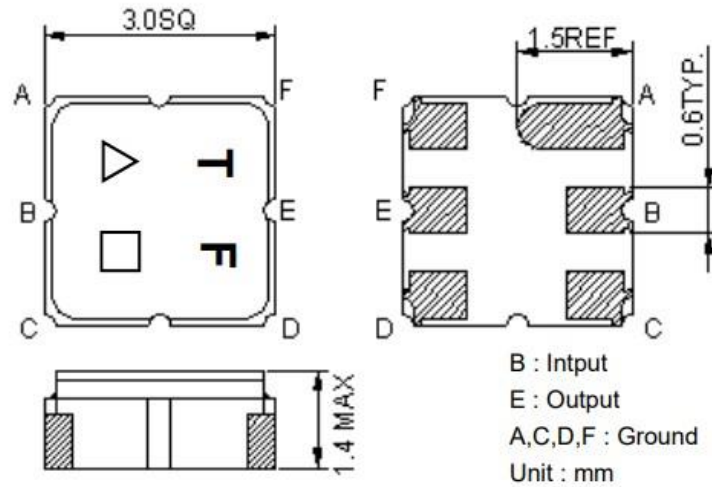
Product Name: SAW Filter

Part No: MSA-C942.5_35MD-A-R0

■ History List

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

■ Mechanical Drawing



△ : Year Code (2011->1, 2012->2, ..., 2019->9)

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

Note

1. Connector: SMD
2. Finish: Silver plated

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

■ Electrical Specification

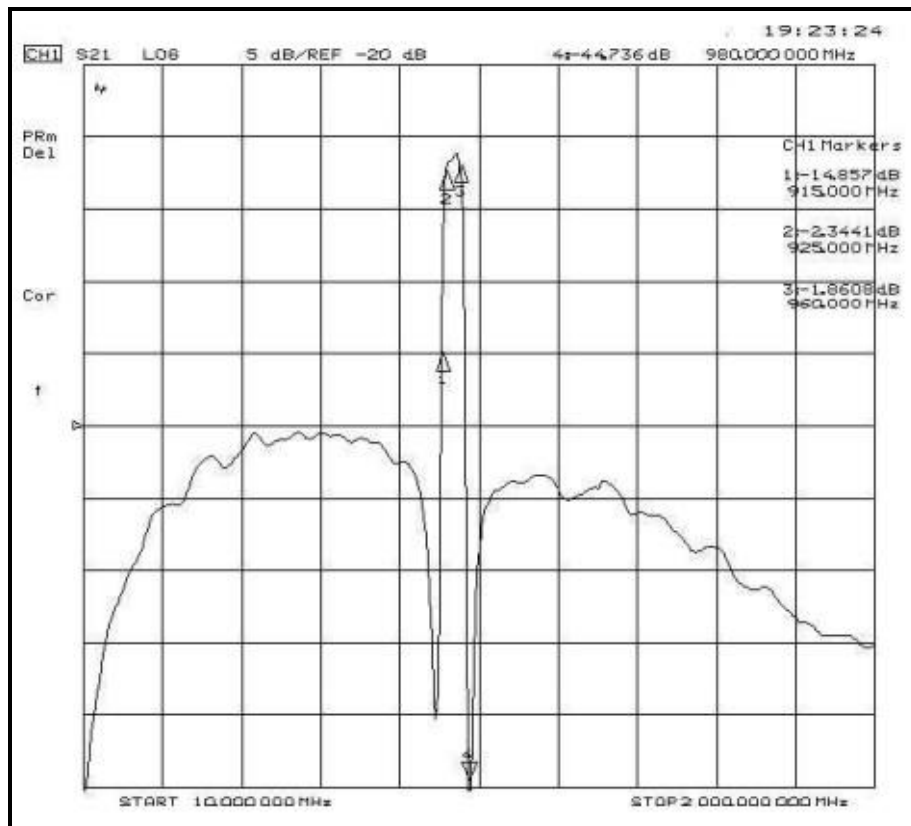
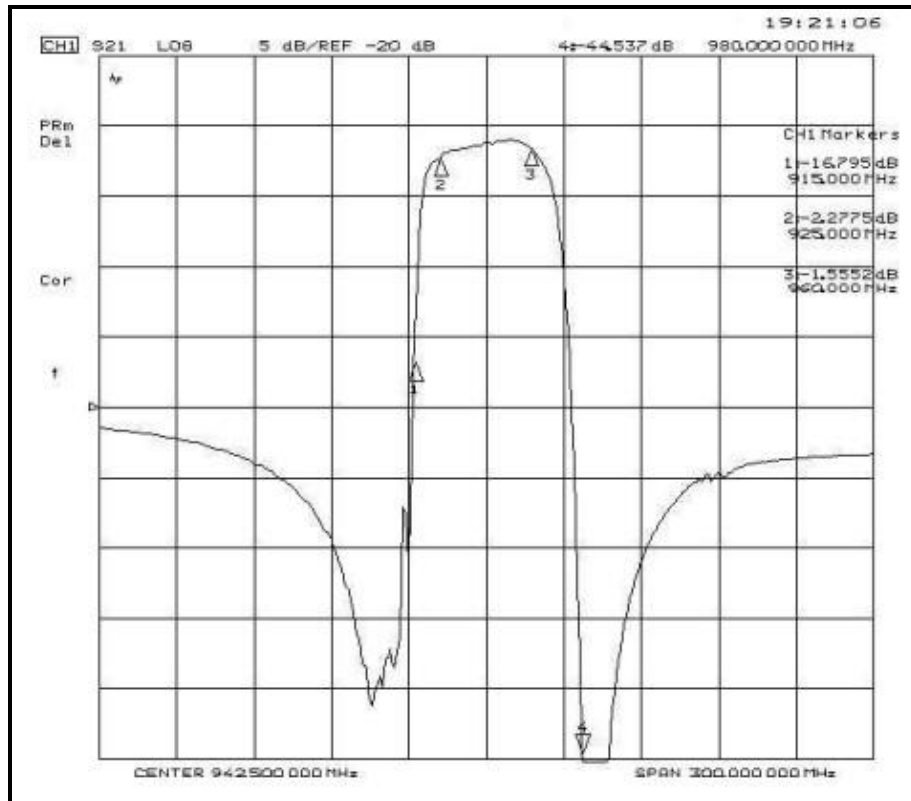
Parameter	Specification	Remark
1. Center Frequency	942.5MHz	
2. Bandwidth [BW]	$F_c \pm 17.5\text{MHz}$ [925~960MHz]	
3. Insertion Loss in BW	3.0dB Max.	
4. Amplitude Ripple in BW	1.5dB Max.	
5. VSWR in BW	2.7:1 Max.	
6. In/Out Impedance	50Ω	
7. Attenuation [Absolute Value]	17dB Min. @ DC~905MHz	
	5dB Min. @ 905~915MHz	
	13dB Min. @ 980~1000MHz	
	20dB Min. @ 1000~2000MHz	
8. Input Power Level	10dBm	
9. DC Voltage	3V	
10. Operating Temperature	-30°C to +85°C	
11. Storage Temperature	-40°C to +85°C	

Note1. The standard definitions is in JIS C 6703

Remarks: This is a preliminary datasheet for reference.

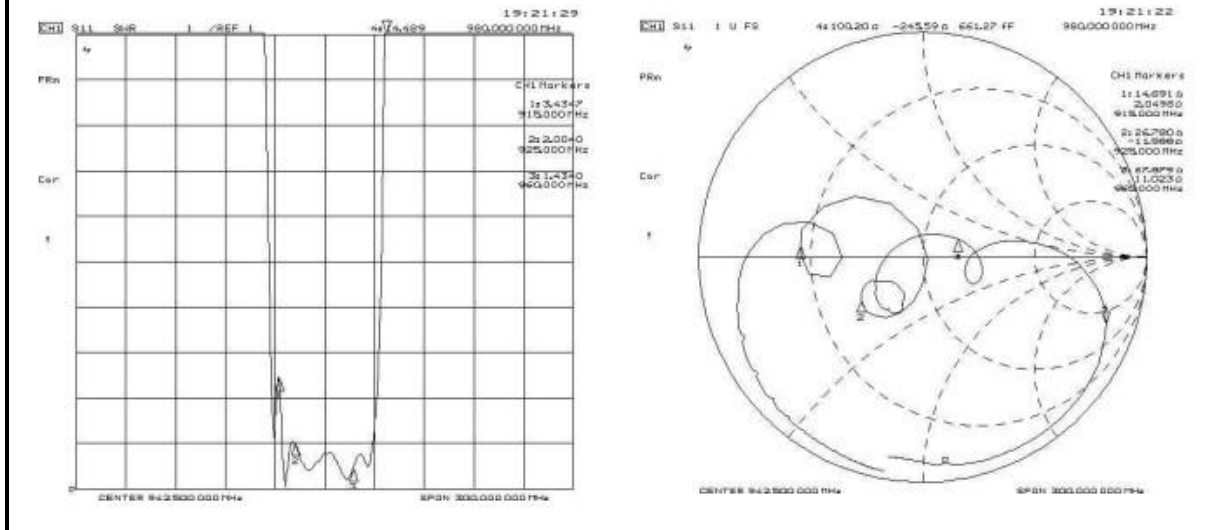
■ Simulation Data

1) Transfer Functions

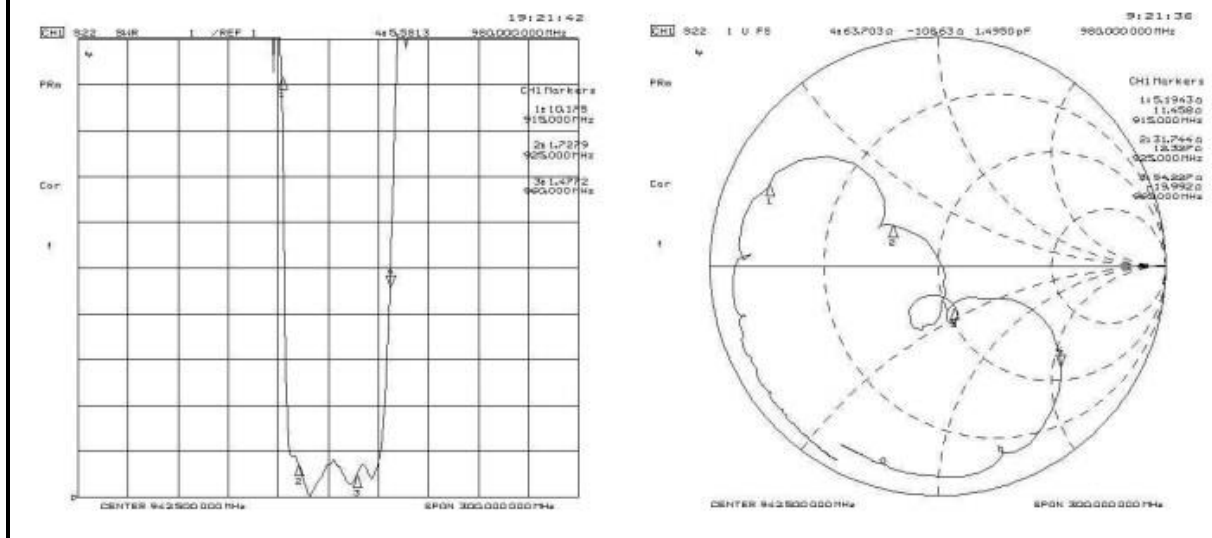


2) Reflections Functions

S11 VSWR



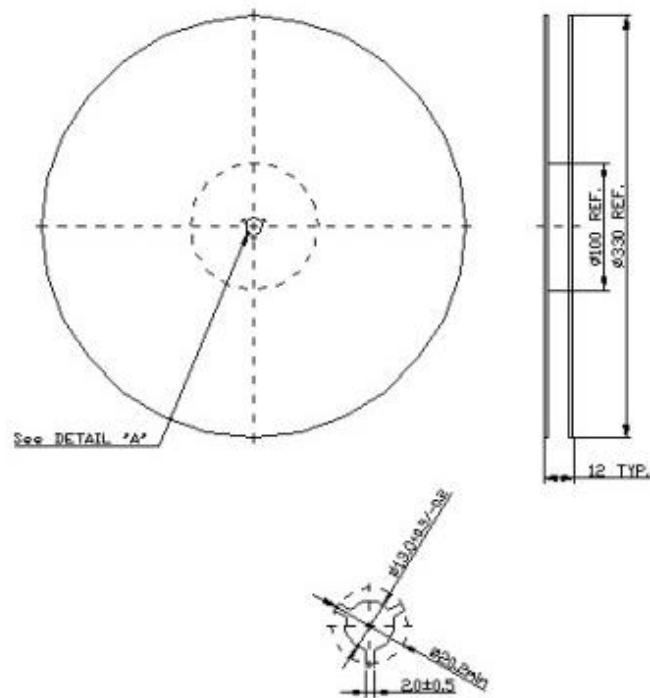
S22 VSWR



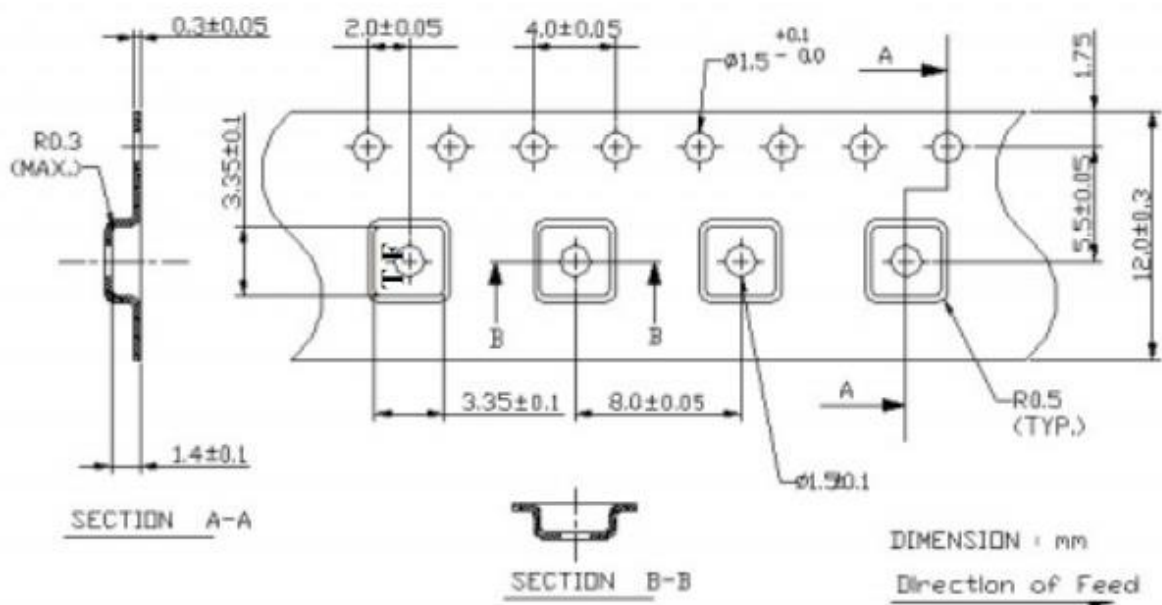
■ Packing

1. REEL DIMENSION

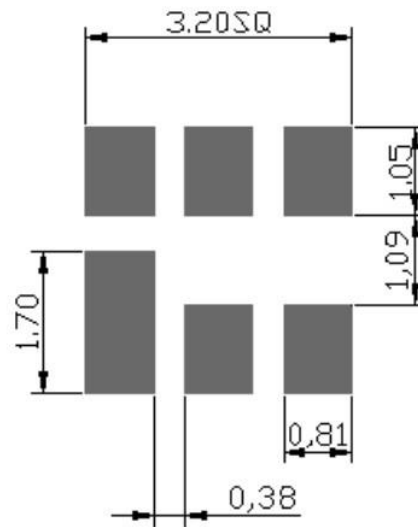
(Reel Count : 7"=1000 ; 13"=3000 or per the request of customer order)



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.

