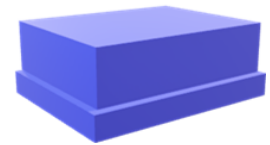


SF2557LM

**763 MHz
SAW Filter**



SM1109

MAXIMUM RATING

- Input Power Level: 10dBm
- DC Voltage : 5V
- Operating Temperature: -30°C to +85°C
- Storage Temperature: -40°C to +100°C
- Moisture Sensitivity Level: Level 1
- ESD 50V(MM) 100V(HBM)

ELECTRICAL CHARACTERISTICS

Terminating source impedance(Unbalanced)⁽¹⁾ : $Z_s = 50 \Omega$

Terminating load impedance(Unbalanced)⁽¹⁾ : $Z_L = 50 \Omega$

Item	Unit	Min.	Typ.	Max.	Note
Center Frequency Fc	MHz	-	763	-	-
Insertion Loss (758~768 MHz)	IL dB	-	2.2	3.0	(*1)
Amplitude ripple (758~768 MHz)	dBp-p	-	0.7	2.0	-
VSWR (758~768 MHz)		-	1.8	2.1	-
Attenuation (reference level from 0 dB)					
50~ 698 MHz	dB	30	42	-	-
698 ~ 716 MHz	dB	35	49		
788 ~ 798 MHz	dB	44	49	-	Tx
2400 ~ 2500 MHz	dB	35	42	-	-
4900 ~ 6000 MHz	dB	30	37	-	-

(*1) Specification of insertion loss excludes loss that comes from the test board.

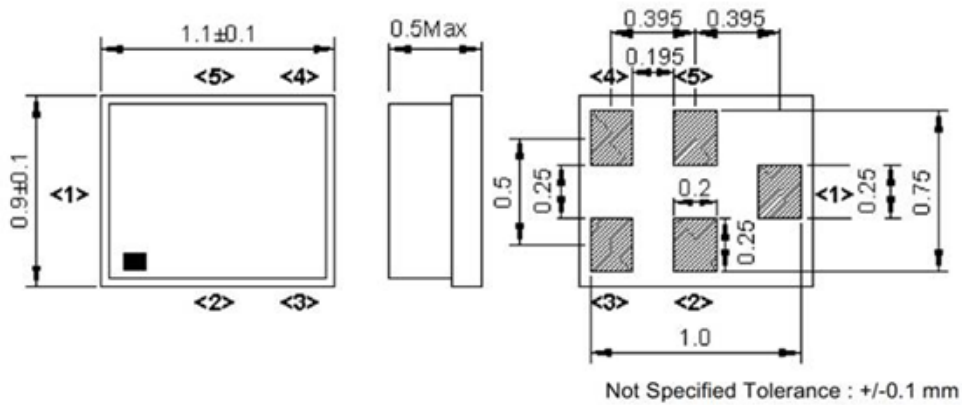


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

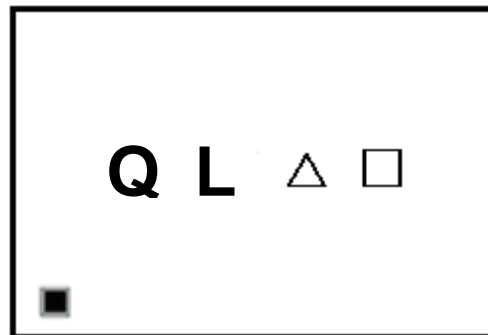
OUTLINE DRAWING



Pin assignment

Pin No.	Pin name	Description
1	In	Input
2	GND	Ground
3	GND	Ground
4	Out	Output
5	GND	Ground

Top View (Mass Production):



Marking name : QL

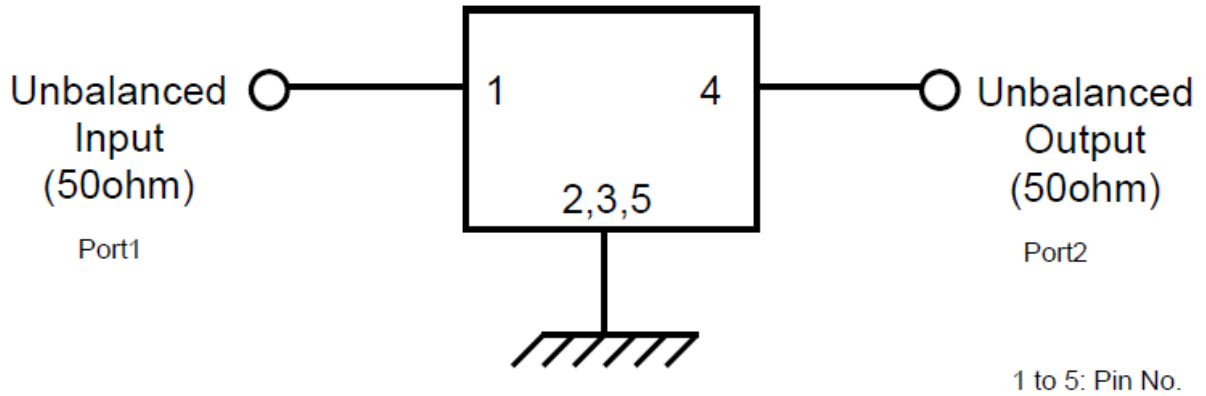
△ : Date Code

□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and l)

date Code: (4-year cycle)

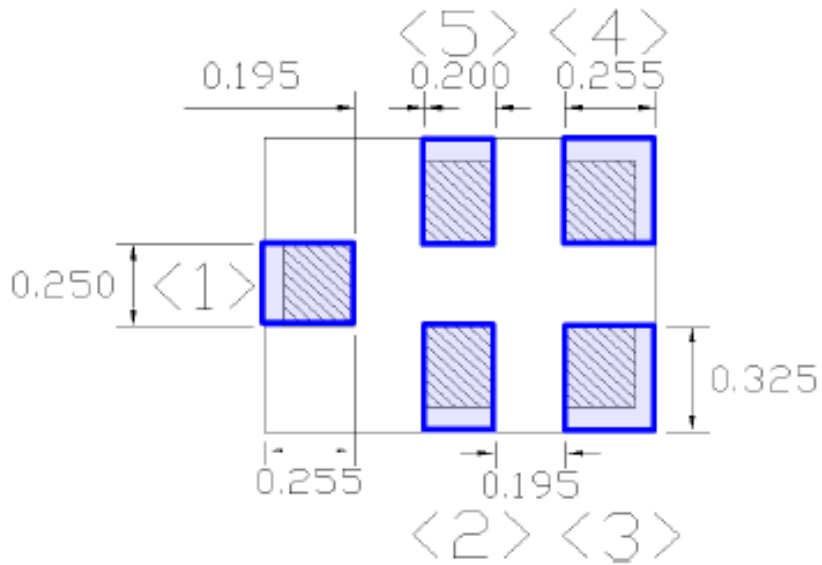
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017 / 2021	A	B	C	D	E	F	G	H	J	K	L	M
2018 / 2022	N	P	Q	R	S	T	U	V	W	X	Y	Z
2019 / 2023	a	b	c	d	e	f	g	h	j	k	l	m
2020 / 2024	n	p	q	r	s	t	u	v	w	x	y	z

Evaluation Circuit



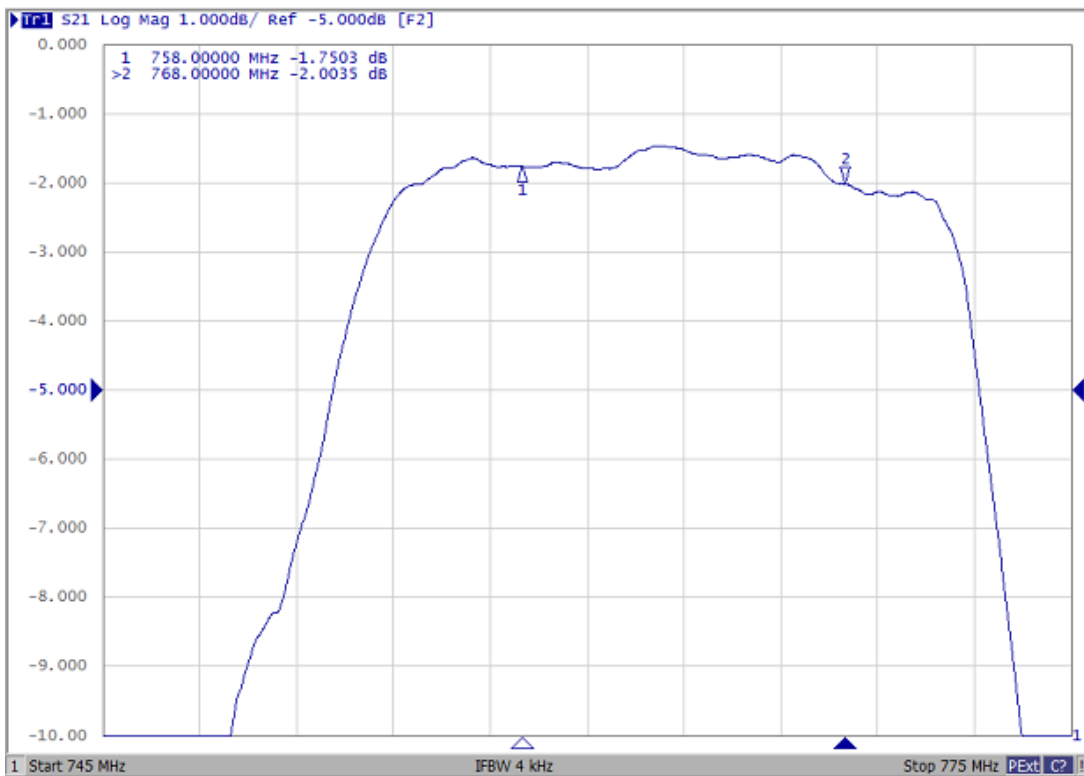
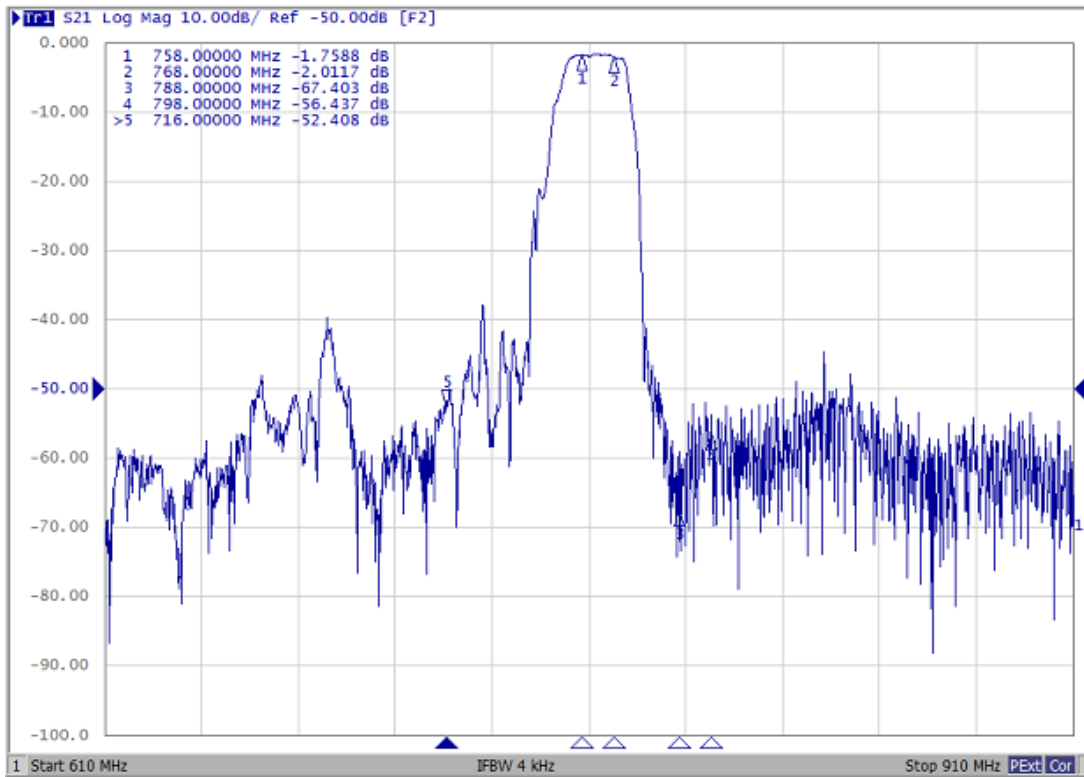
Source & Load Impedance: 50 Ω

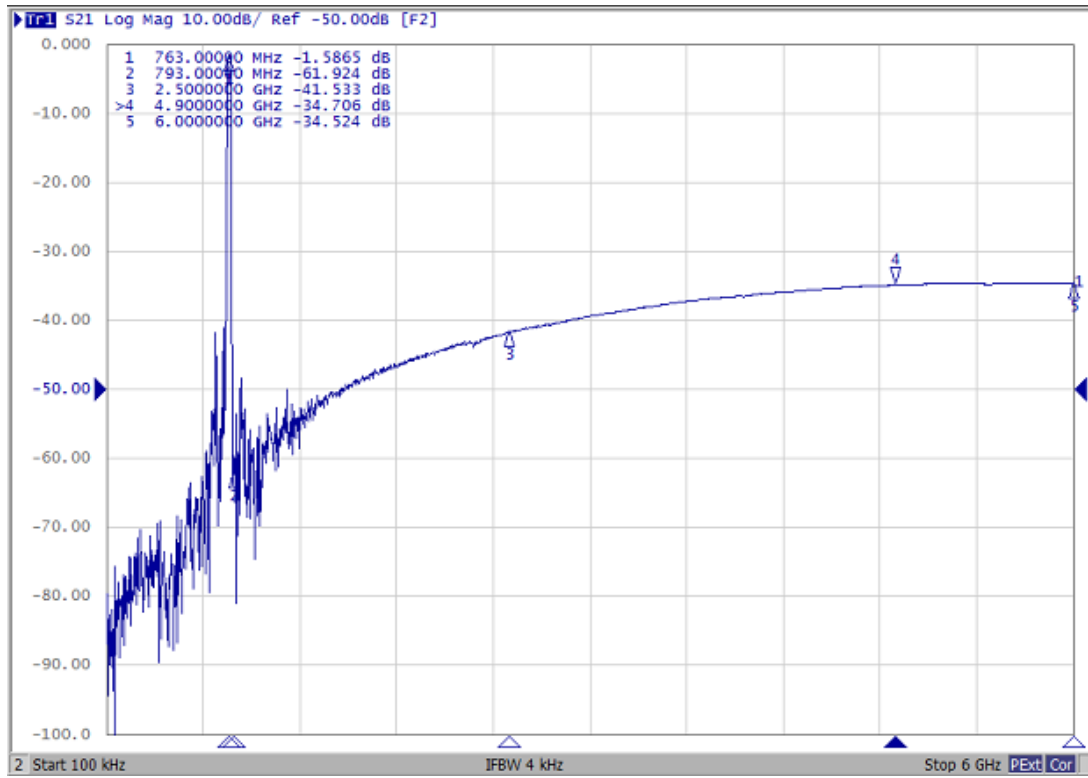
PCB Footprint



Frequency Characteristics

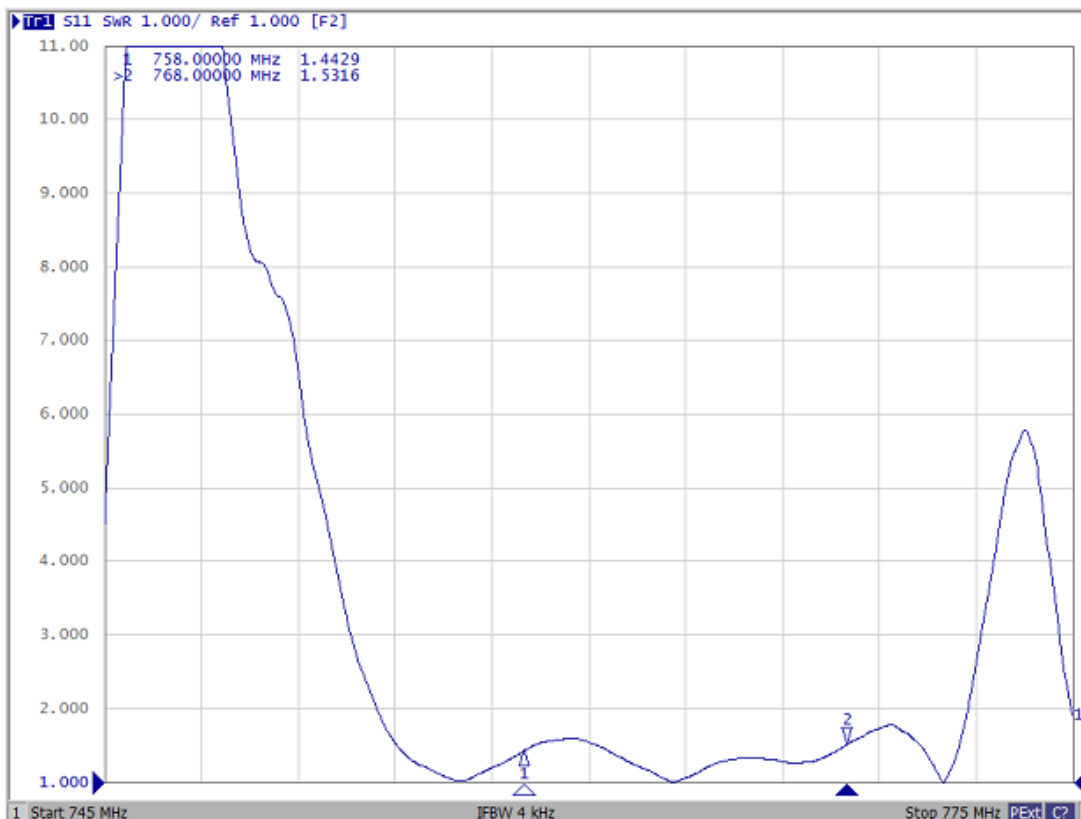
Passband



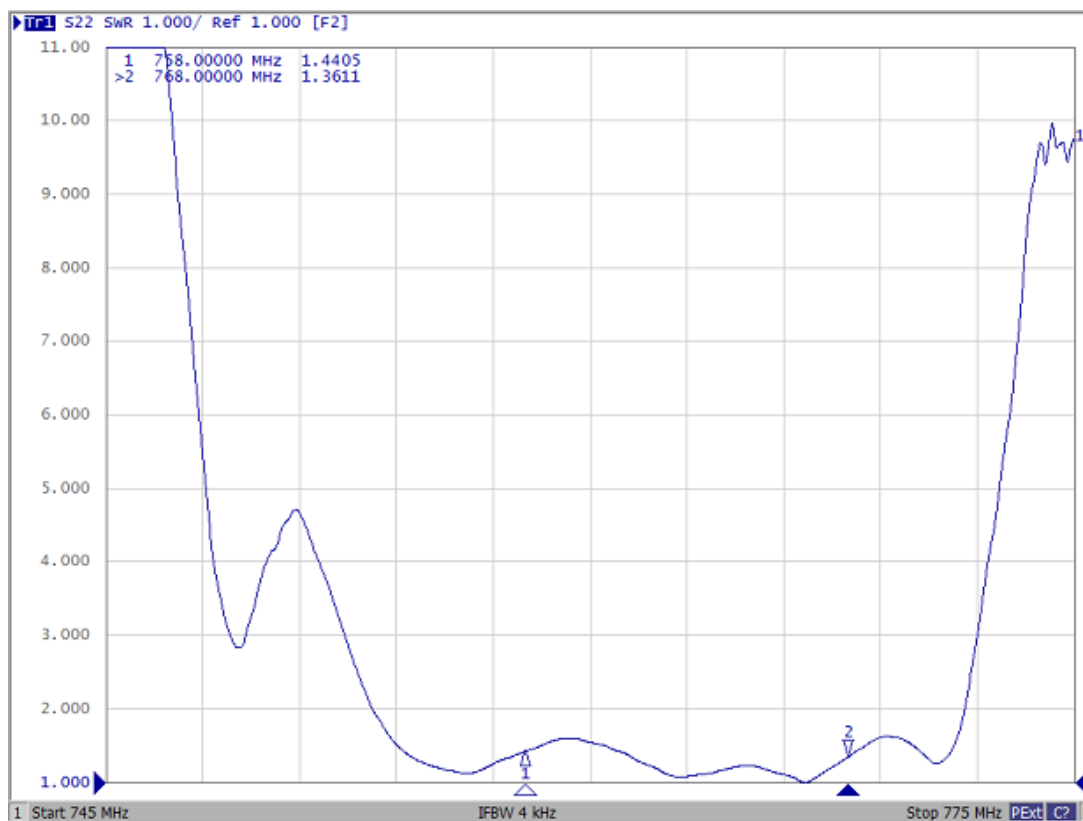


Reflection Functions :

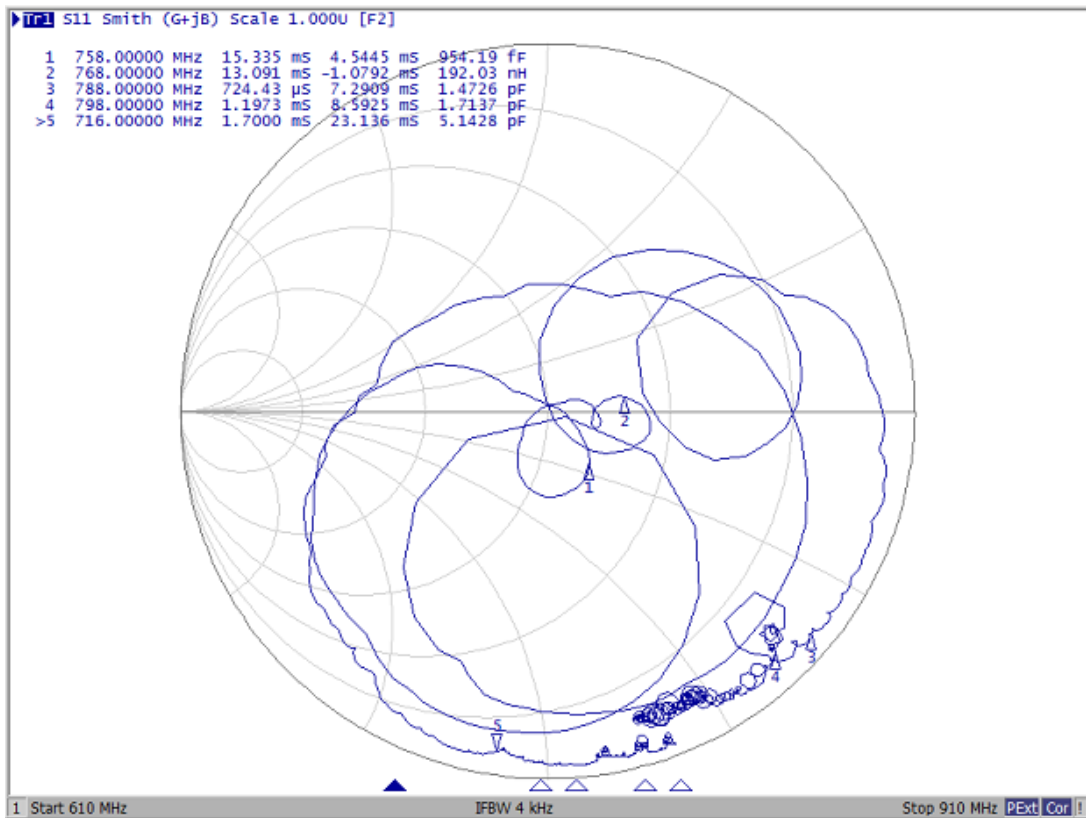
S11 VSWR



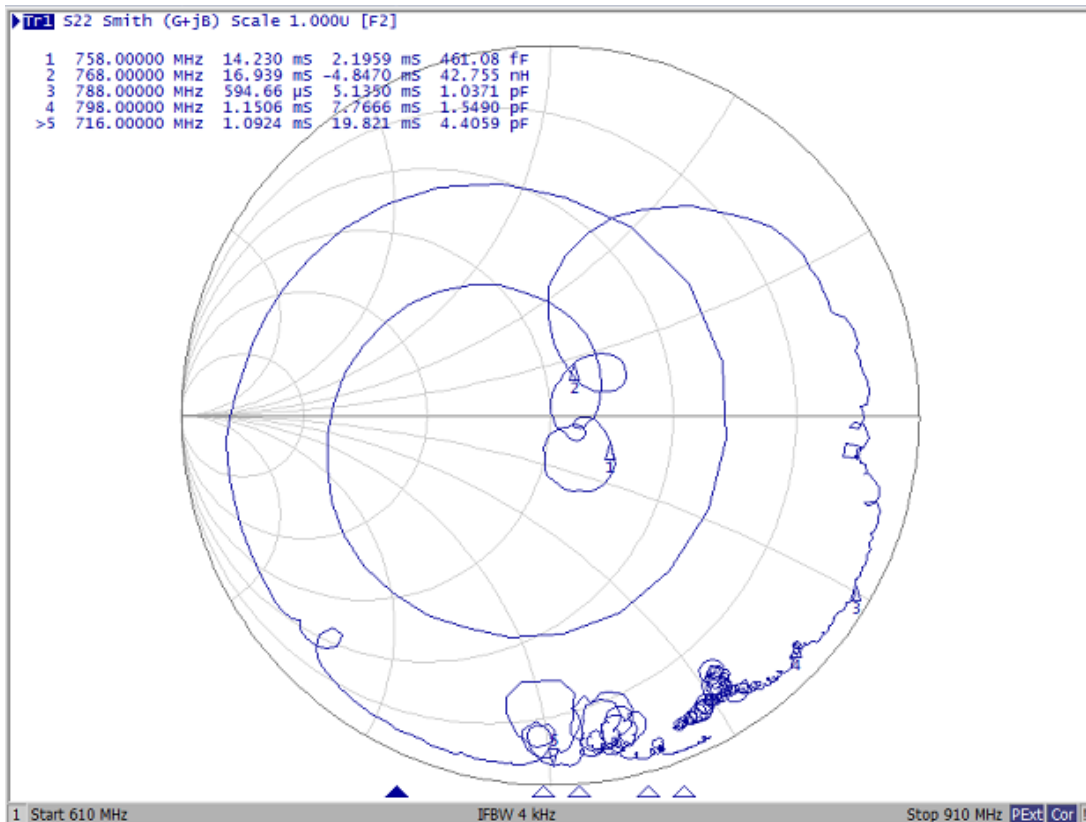
S22 VSWR



S11 Smith Chart

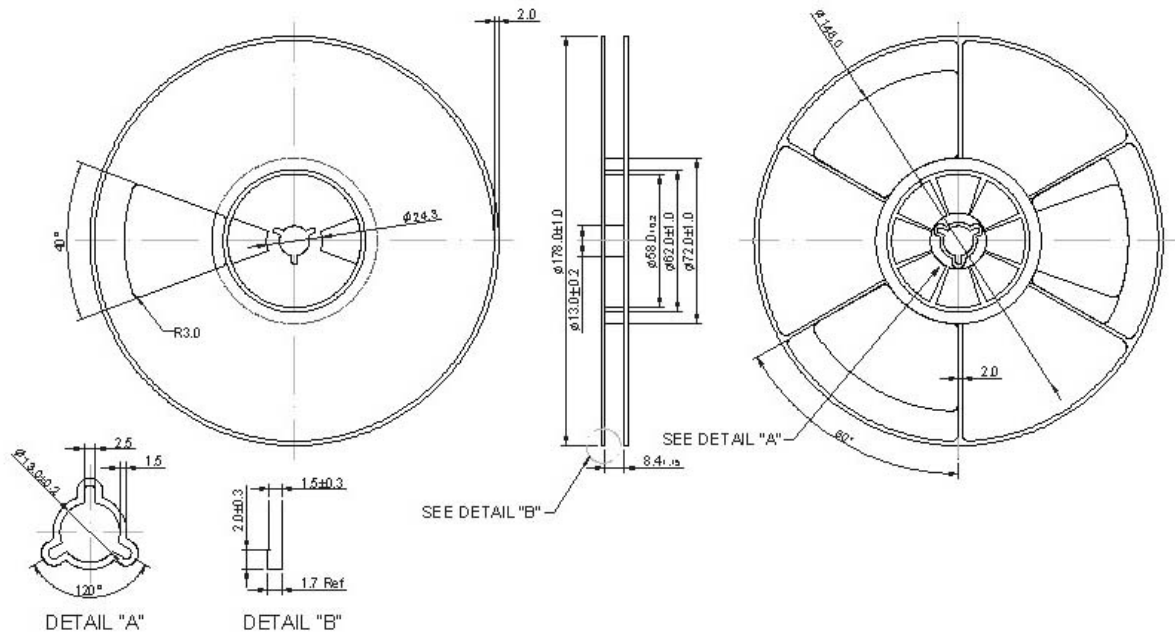


S22 Smith Chart

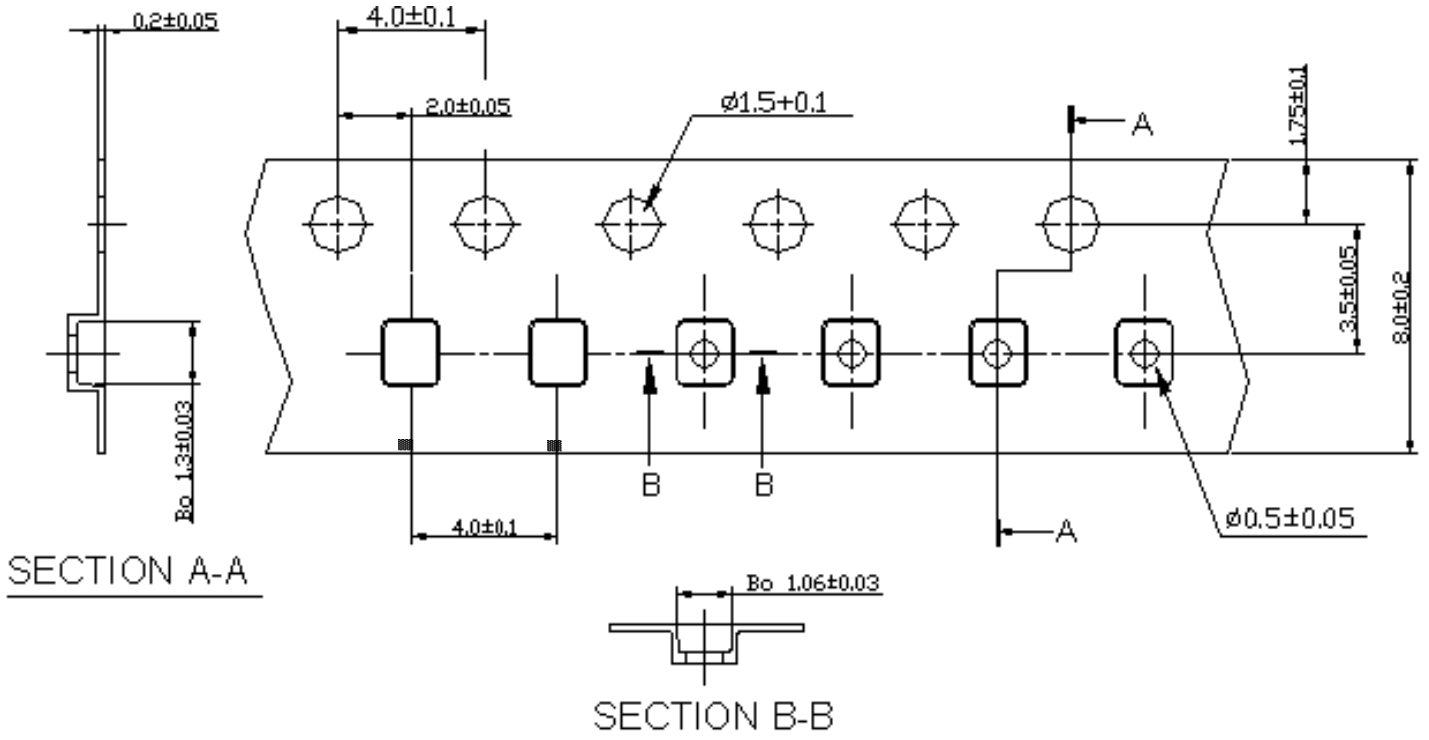


**PACKING
REEL DIMENSION**

Reel Count
7" = 3000
13" = 10,000



TAPE DIMENSION



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.

