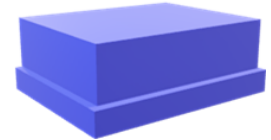


SF2546L

**2655.0 MHz
SAW Filter**



SM1109

MAXIMUM RATING:

- Maximum Input Power: 15 dBm
- DC voltage: 0 V
- Operating Temperature: -30°C to +85°C
- Storage Temperature: -40°C to +85°C
- Moisture Sensitivity Level: Level 3 (MSL 3)
- ESD 50V(MM) 100V(HBM)

ELECTRICAL CHARACTERISTICS:

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

Terminating load impedance: $Z_L = 100\Omega//22nH$ (Balanced)

Parameters Description	Unit	Minimum	Typical	Maximum
Center Frequency (Fo)	MHz	-	2655.0	-
Insertion Loss within 2620.0 ~ 2690.0 MHz	dB	-	2.5	3.3
Amplitude Ripple within 2620.0 ~ 2690.0 MHz	dB _p -p	-	0.9	1.7
Input VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.8	2.2
Output VSWR within 2620.0 ~ 2690.0 MHz	-	-	1.8	2.2
Amplitude Balance within 2620.0 ~ 2690.0 MHz	dB	-1.6	-0.6/+1.1	+1.6
Phase Balance within 2620.0 ~ 2690.0 MHz	deg	-12	-1.5/+7	+12
Attenuation:				
10.0 ~ 2500.0 MHz	dB	40	46	-
2500.0 ~ 2570.0 MHz	dB	45	49	-
2750.0 ~ 3000.0 MHz	dB	18	24	-
3000.0 ~ 4000.0 MHz	dB	30	43	-
4000.0 ~ 5240.0 MHz	dB	30	43	-
5240.0 ~ 5380.0 MHz	dB	30	44	-
5380.0 ~ 6000.0 MHz	dB	25	43	-

Notes : (1) With Matching Network (Ref. Testing Environment Circuit as shown below).

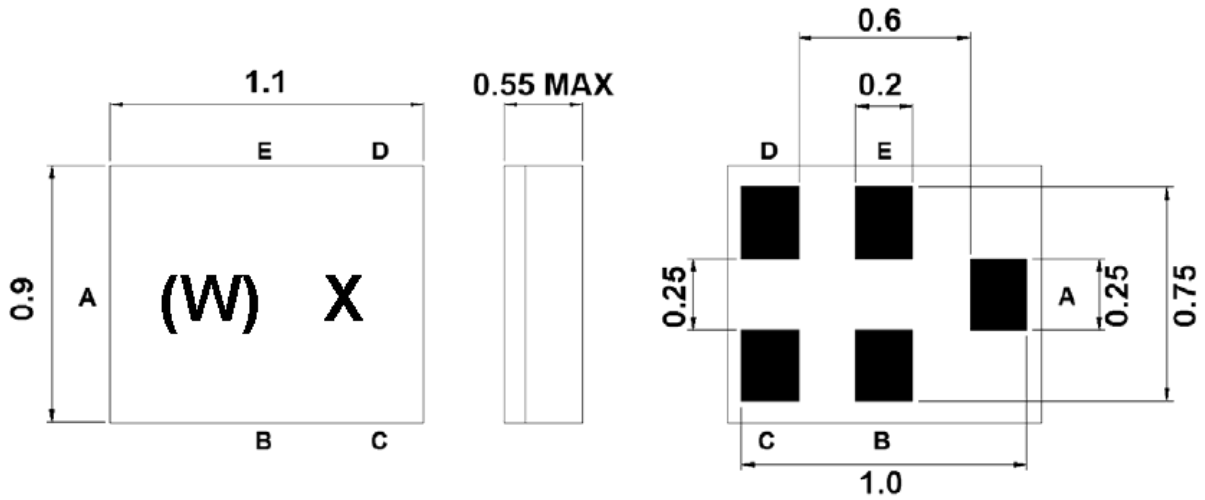


CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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:



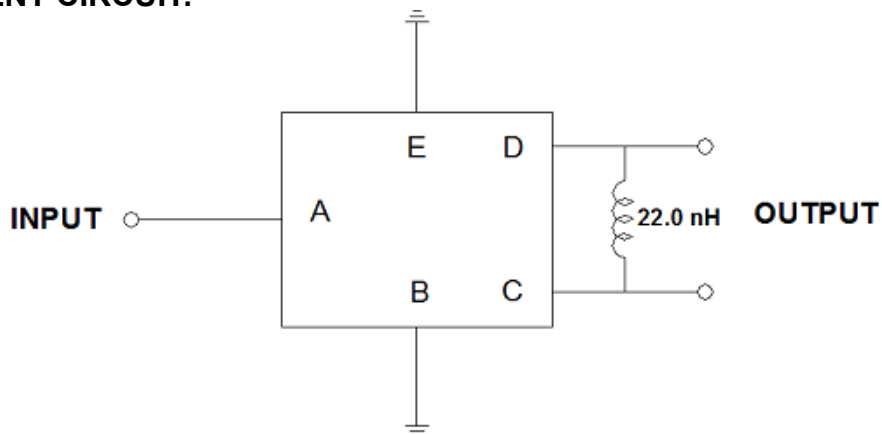
Marking Descriptions	
(W)	Series Number
X	Date Code(Year+Month)

Pin Description	
B, E	Ground
A	Input
C,D	Balanced Output

Dare Code (Year+Month)

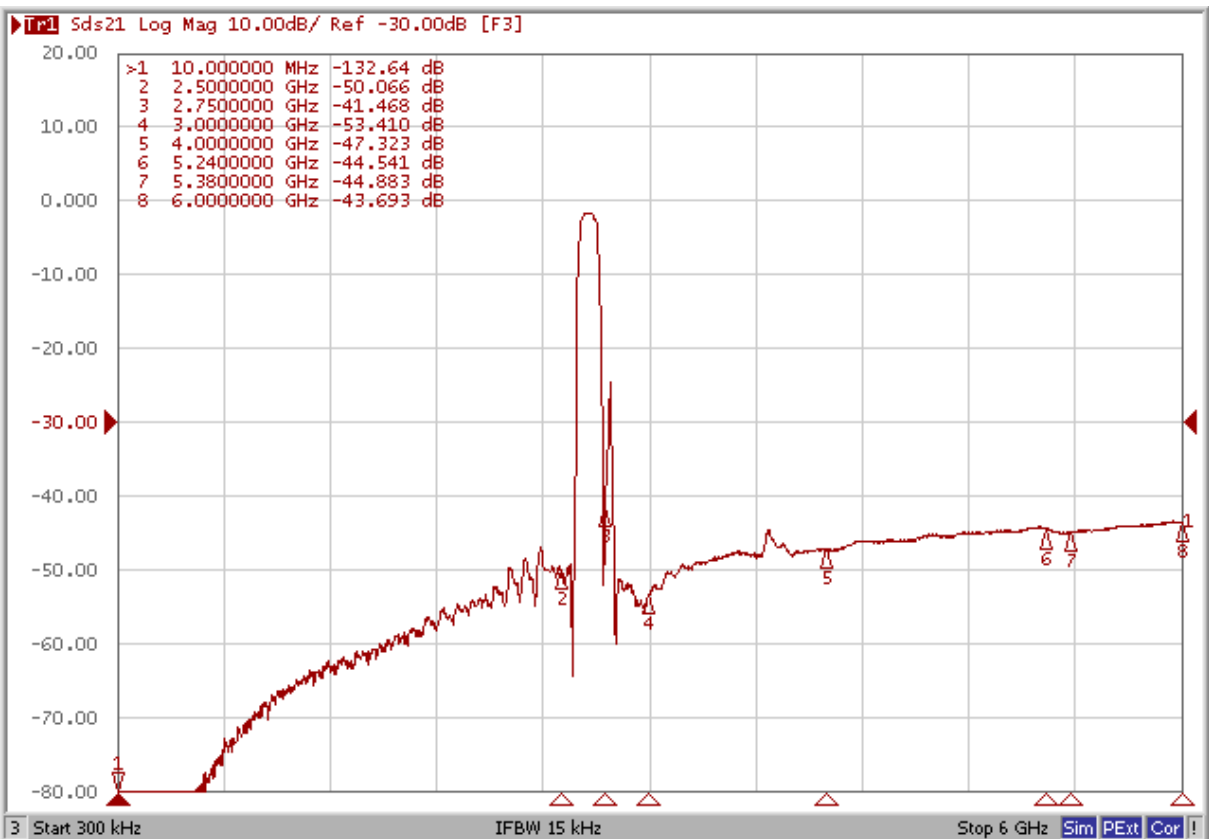
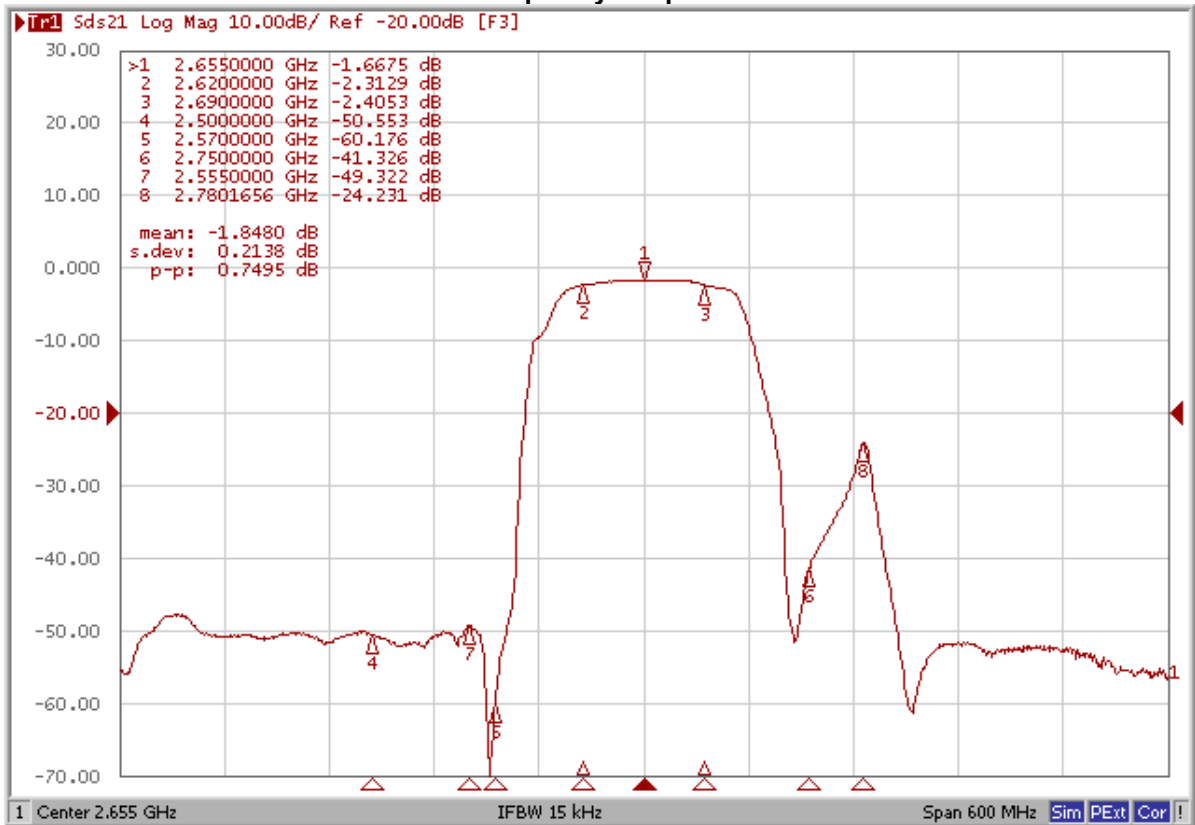
YEAR/Month	1	2	3	4	5	6	7	8	9	10	11	12
2013	A	B	C	D	E	F	G	H	J	K	L	M
2014	N	P	Q	R	S	T	U	V	W	X	Y	Z
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	<u>A</u>	<u>B</u>	<u>C</u>	<u>D</u>	<u>E</u>	<u>F</u>	<u>G</u>	<u>H</u>	<u>J</u>	<u>K</u>	<u>L</u>	<u>M</u>
2018	<u>N</u>	<u>P</u>	<u>Q</u>	<u>R</u>	<u>S</u>	<u>T</u>	<u>U</u>	<u>V</u>	<u>W</u>	<u>X</u>	<u>Y</u>	<u>Z</u>
2019	<u>a</u>	<u>b</u>	<u>c</u>	<u>d</u>	<u>e</u>	<u>f</u>	<u>g</u>	<u>h</u>	<u>j</u>	<u>k</u>	<u>l</u>	<u>m</u>
2020	<u>n</u>	<u>p</u>	<u>q</u>	<u>r</u>	<u>s</u>	<u>t</u>	<u>u</u>	<u>v</u>	<u>w</u>	<u>x</u>	<u>y</u>	<u>z</u>

MEASUREMENT CIRCUIT:



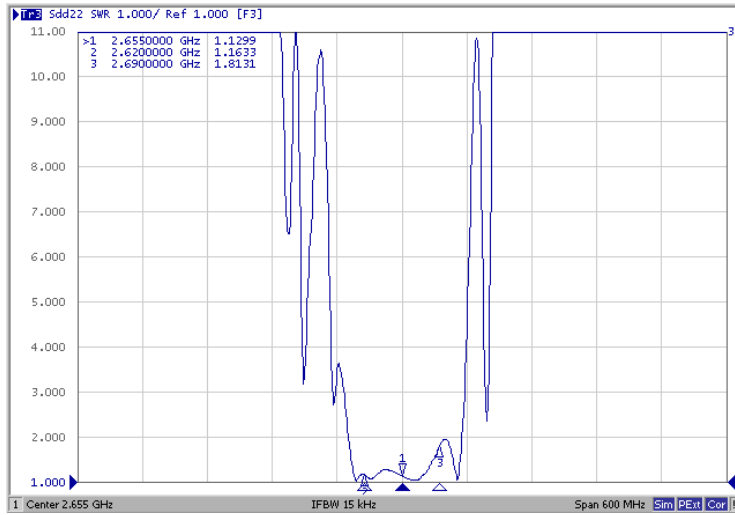
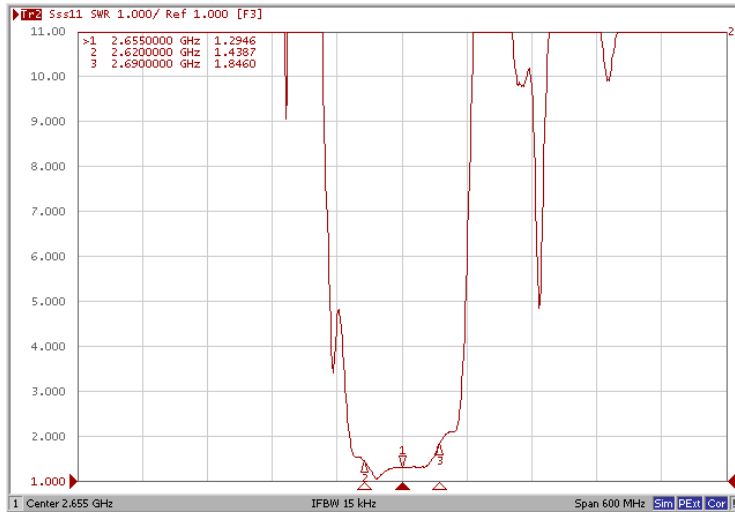
FREQUENCY CHARACTERISTICS:

Frequency Response



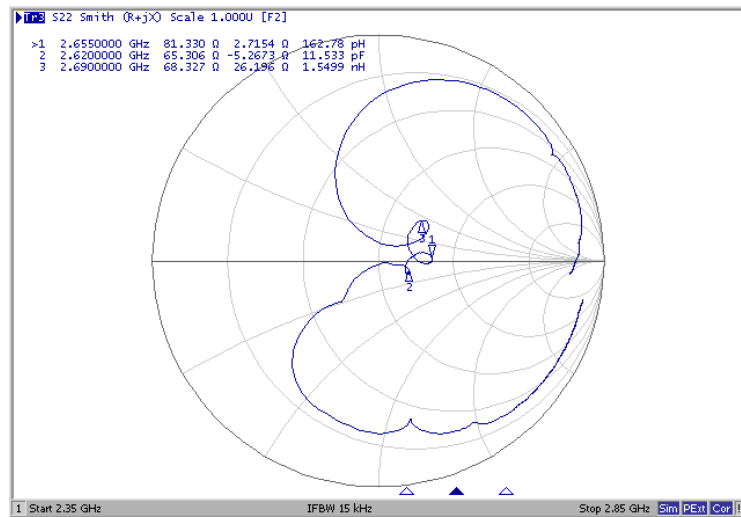
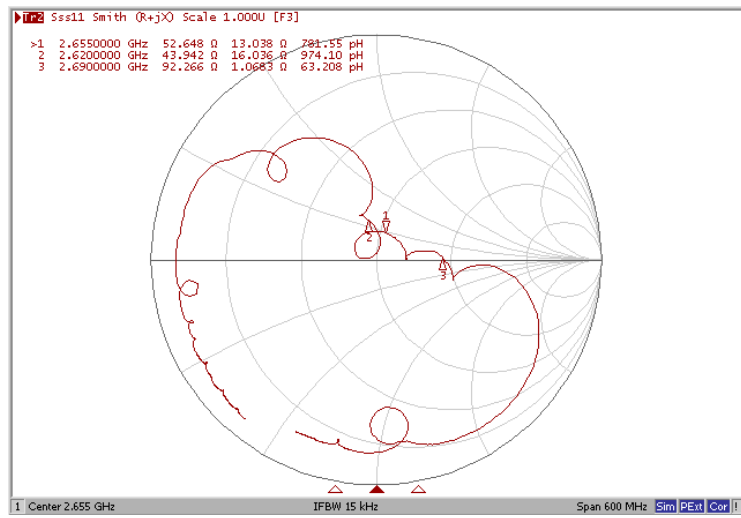
VSWR

S11

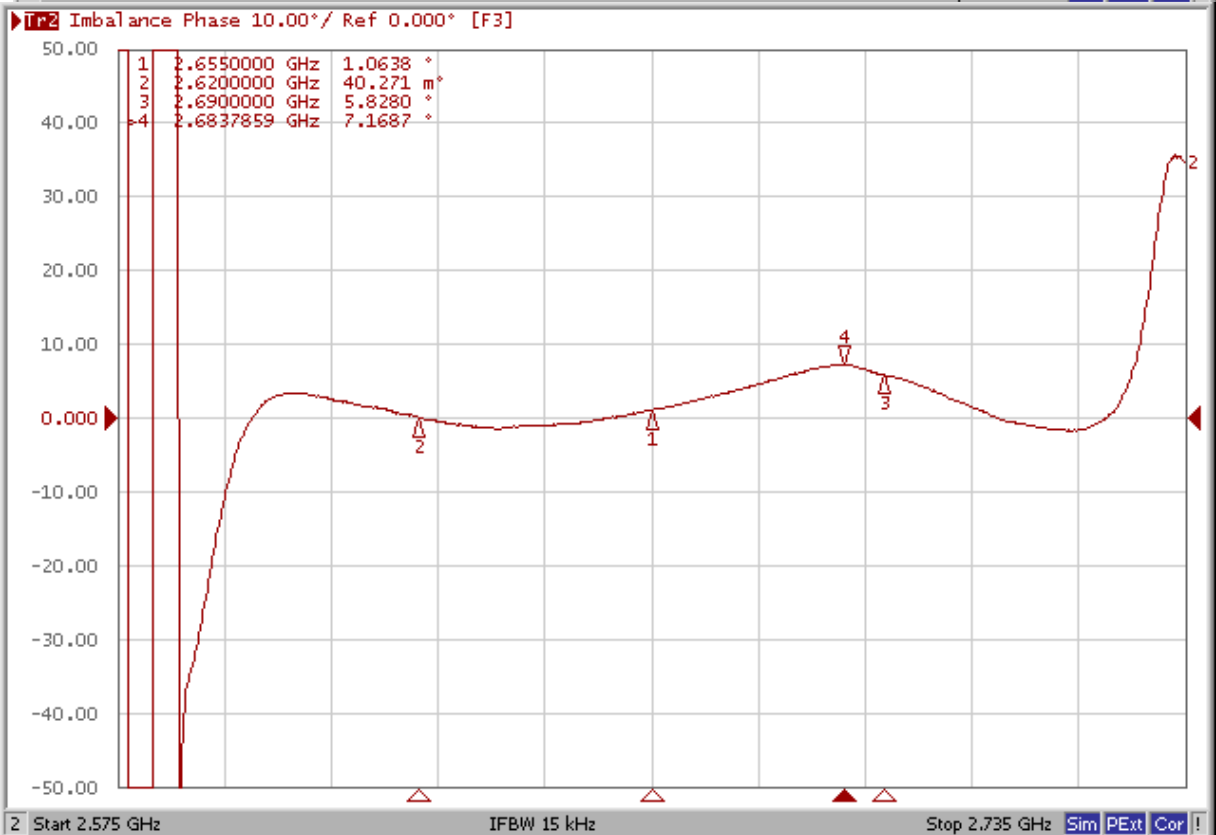
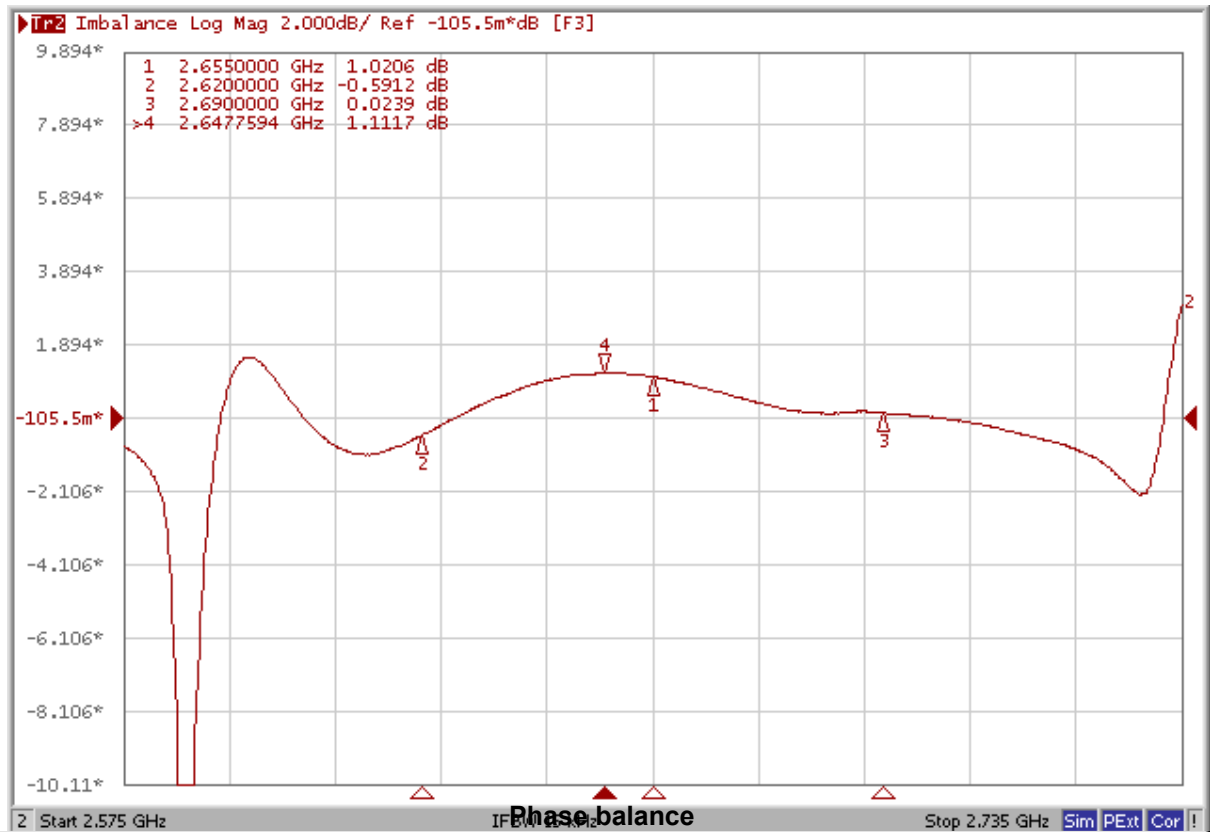


Smith Chart

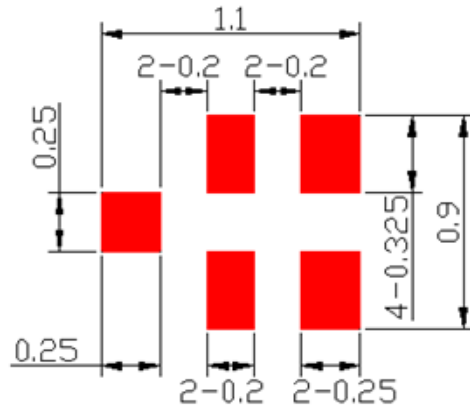
S22



Amplitude balance



PCB Footprint

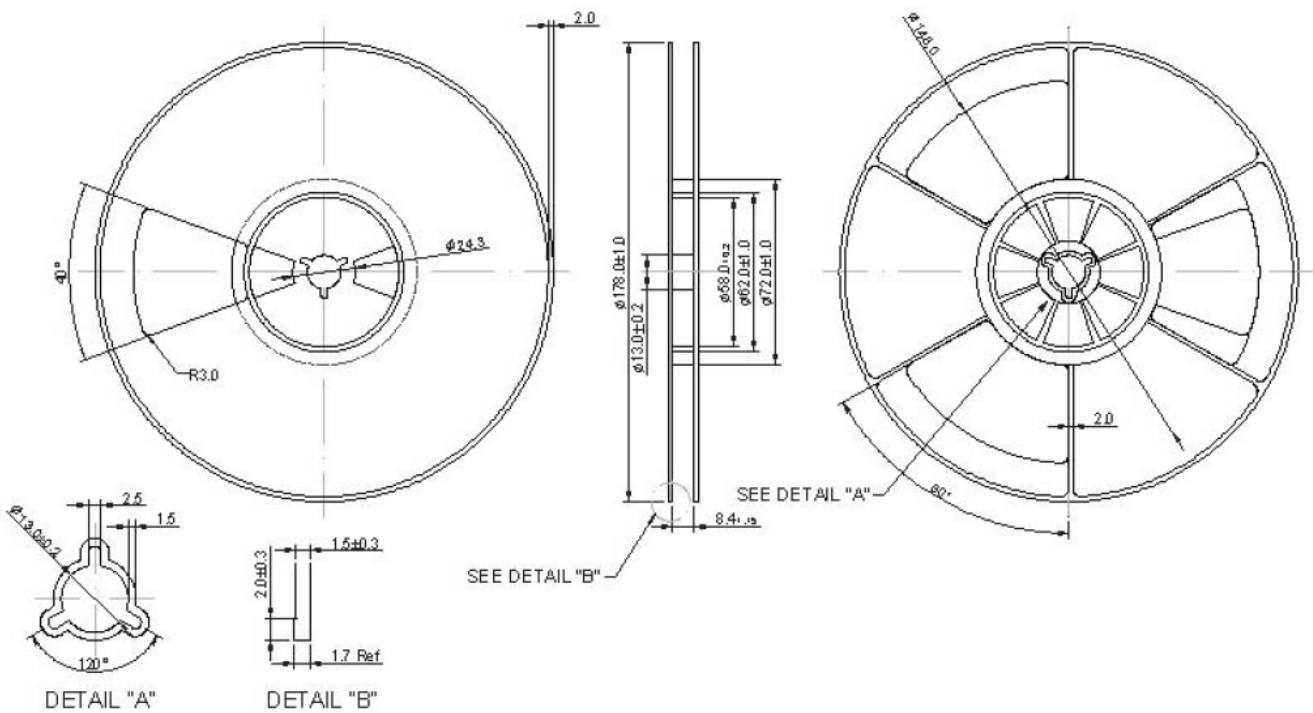


: Land Pattern

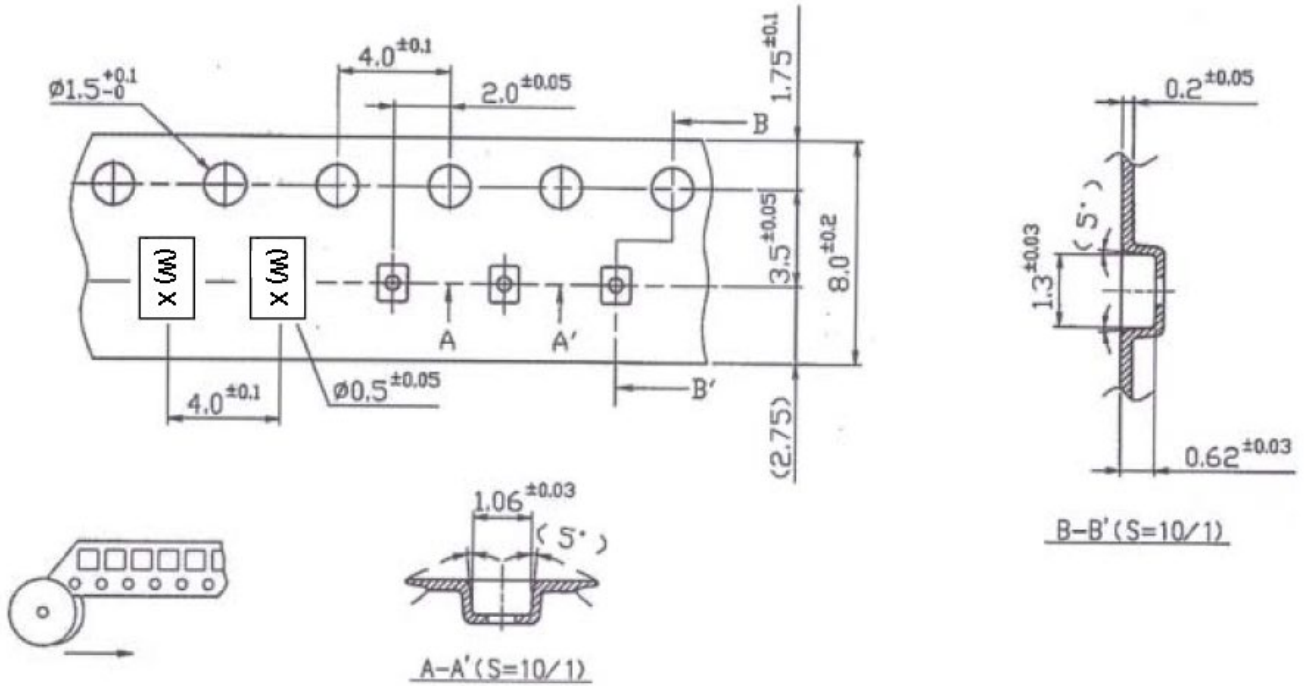
Unit: mm

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 260°C+0/-5°C peak (20~40sec).
4. Time: 2 times.

