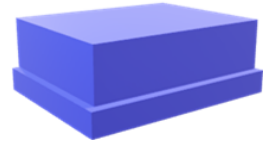


SF2553L

**737.5 MHz
SAW Filter**



SM1109

MAXIMUM RATING

- Operating temperature range: -30 °C to +85 °C
- Storage temperature range: -40 °C to +85 °C
- Maximum Input Power: +15 dBm
- Moisture Sensitivity Level: 3

ELECTRICAL CHARACTERISTICS

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

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

Parameters Description		Unit	Min.	Typ.	Max.	
Center Frequency		MHz	-	737.5	-	
Insertion Loss	729~746 MHz	dB	-	1.6	2.5	
Amplitude Ripple	729~746 MHz	dB	-	0.5	1.5	
VSWR	Input	729~746 MHz	-	-	1.8	2.1
	Output	729~746 MHz	-	-	1.8	2.1
Amplitude balance	729~746 MHz	dB	-1.0	-0.1~+0.2	+1.0	
Phase balance	729~746 MHz	deg	-10	-1.0~+1.0	+10	
Attenuation:						
10~698 MHz		dB	40	59	-	
699~716 MHz		dB	48	55	-	
791~4000 MHz		dB	35	45	-	
4000~6000 MHz		dB	30	48	-	

Notes: (1) No Matching Network.



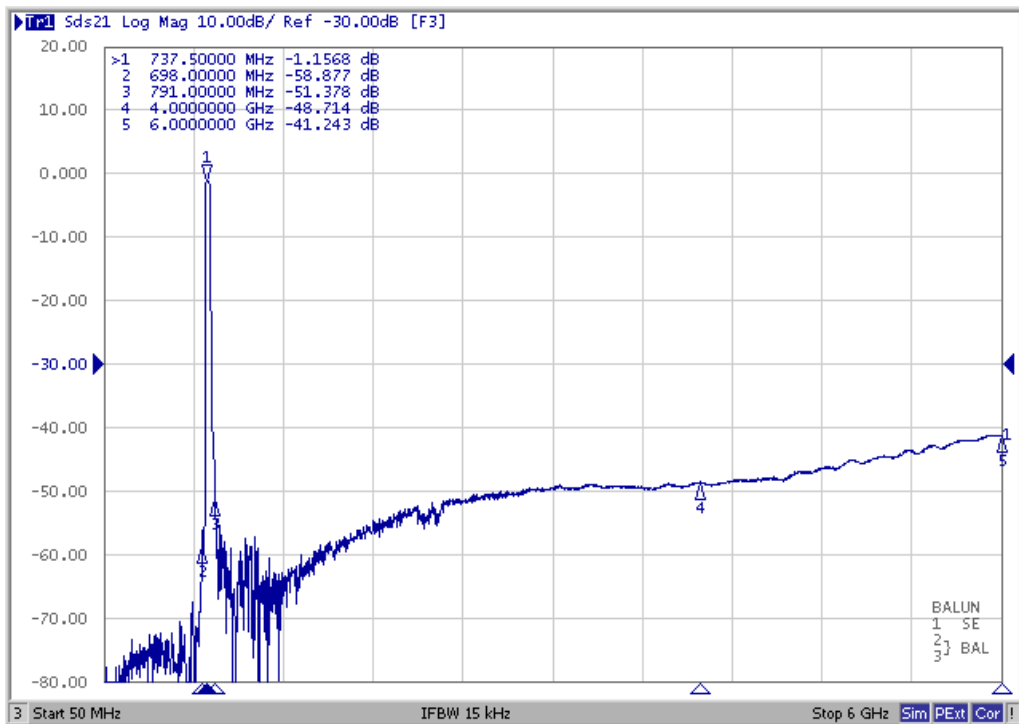
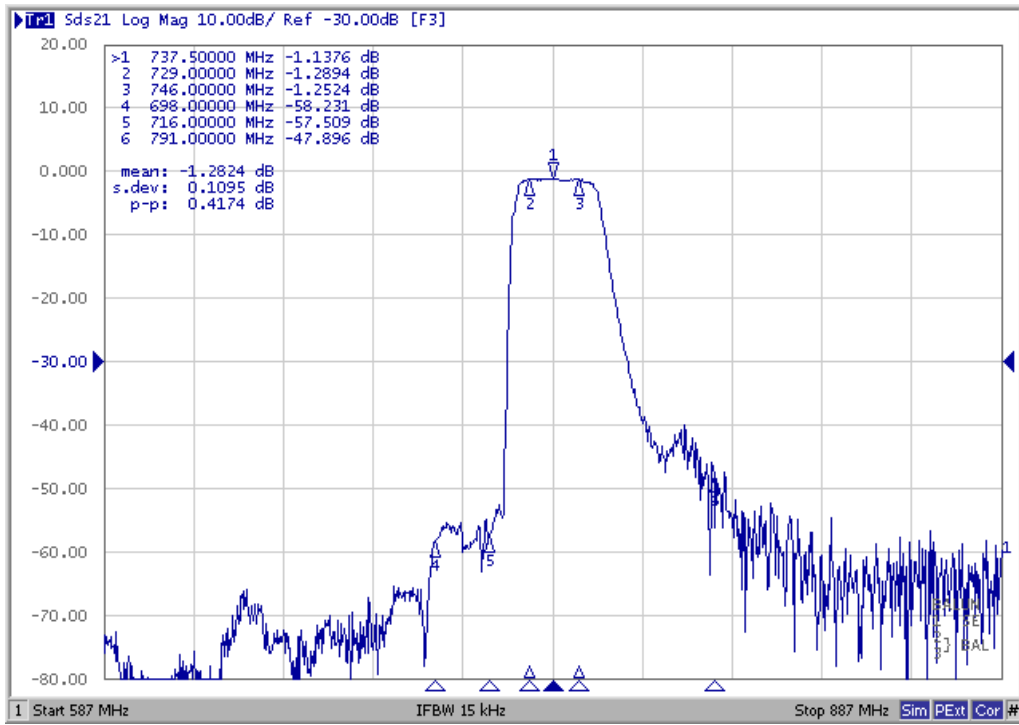
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

NOTES:

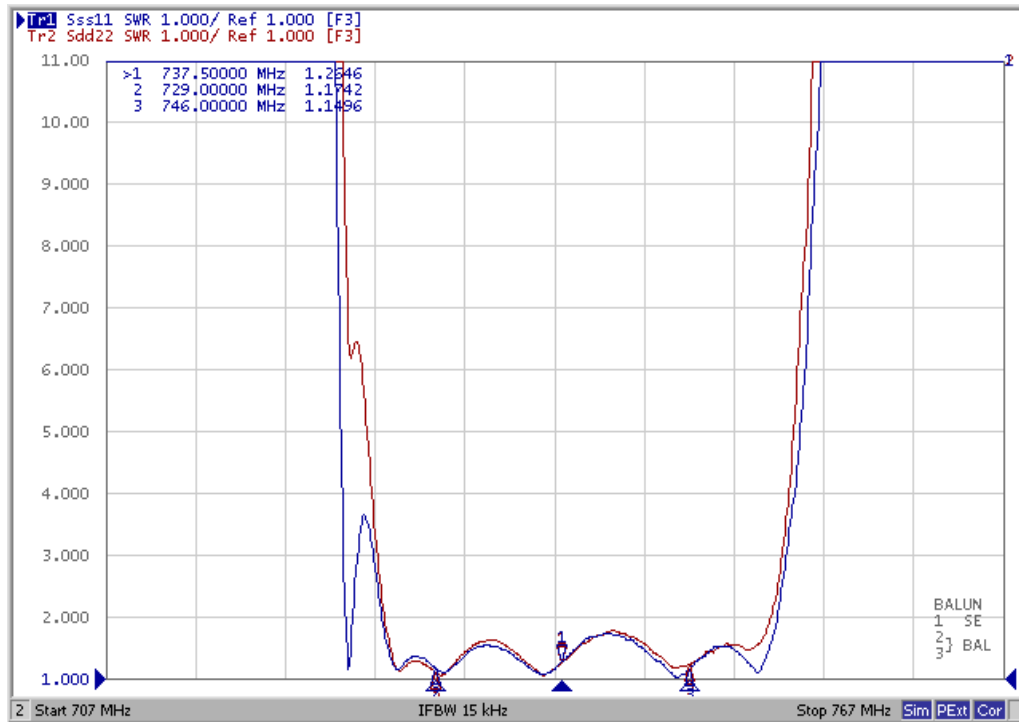
1. The design, manufacturing process, and specifications of this device are subject to change.
2. US or International patents may apply.
3. RoHS compliant from the first date of manufacture.

FREQUENCY CHARACTERISTICS

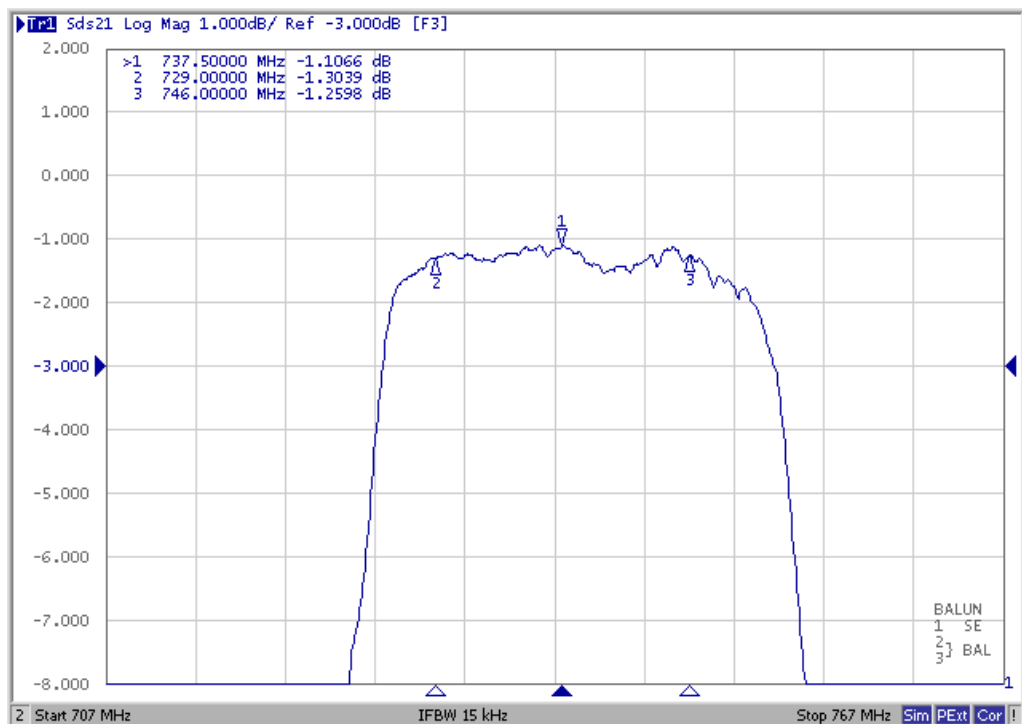
Frequency Response



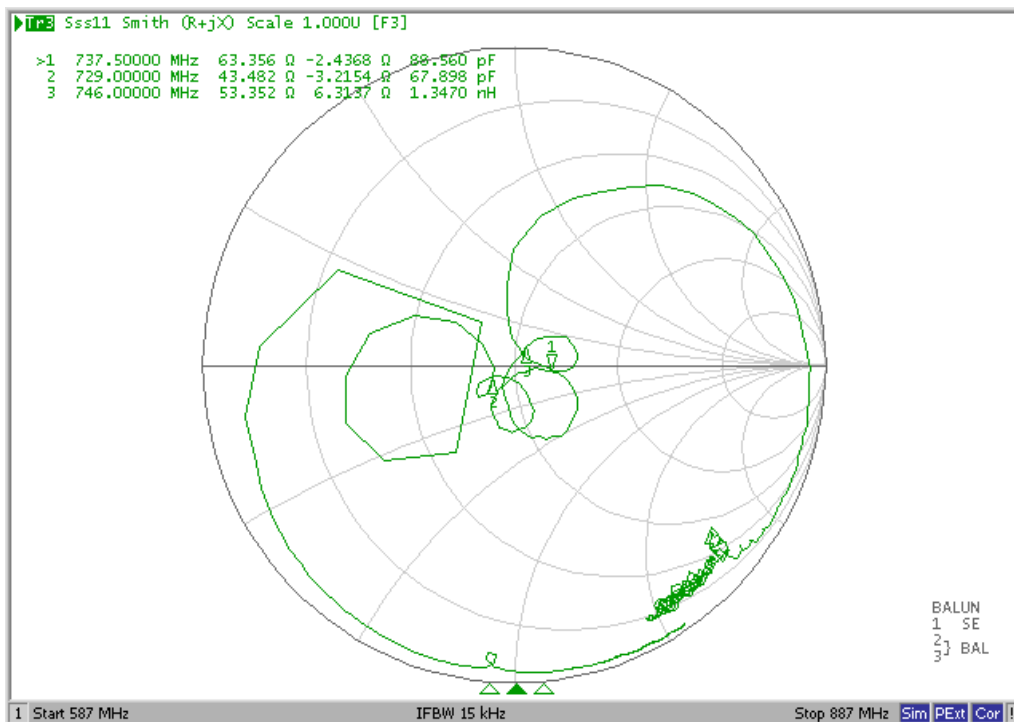
VSWR



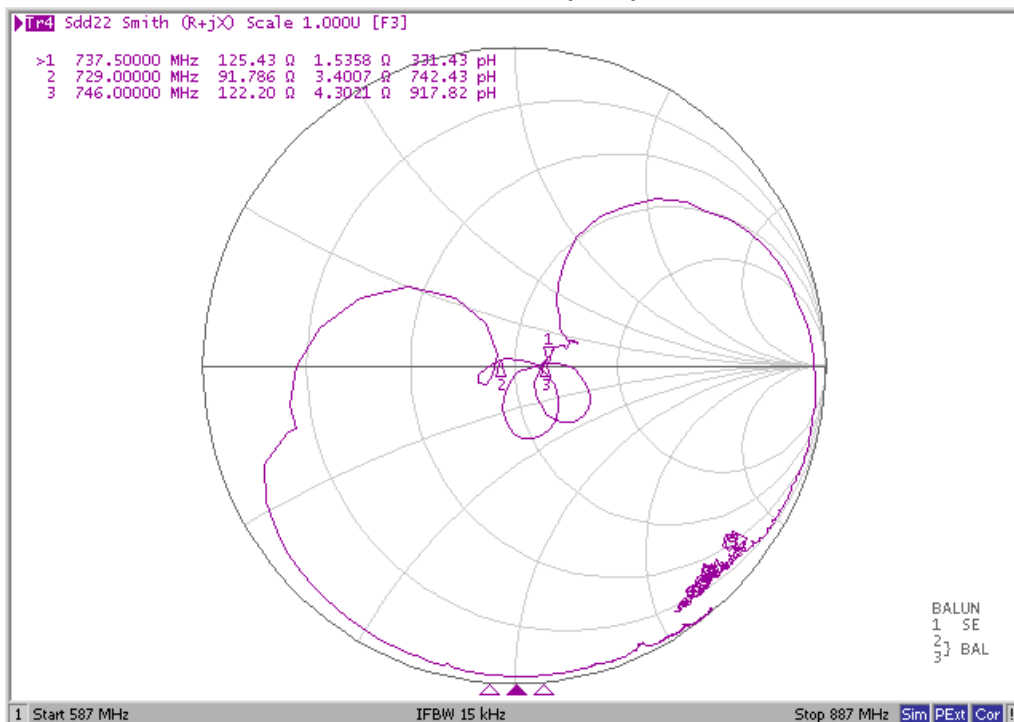
Ripple



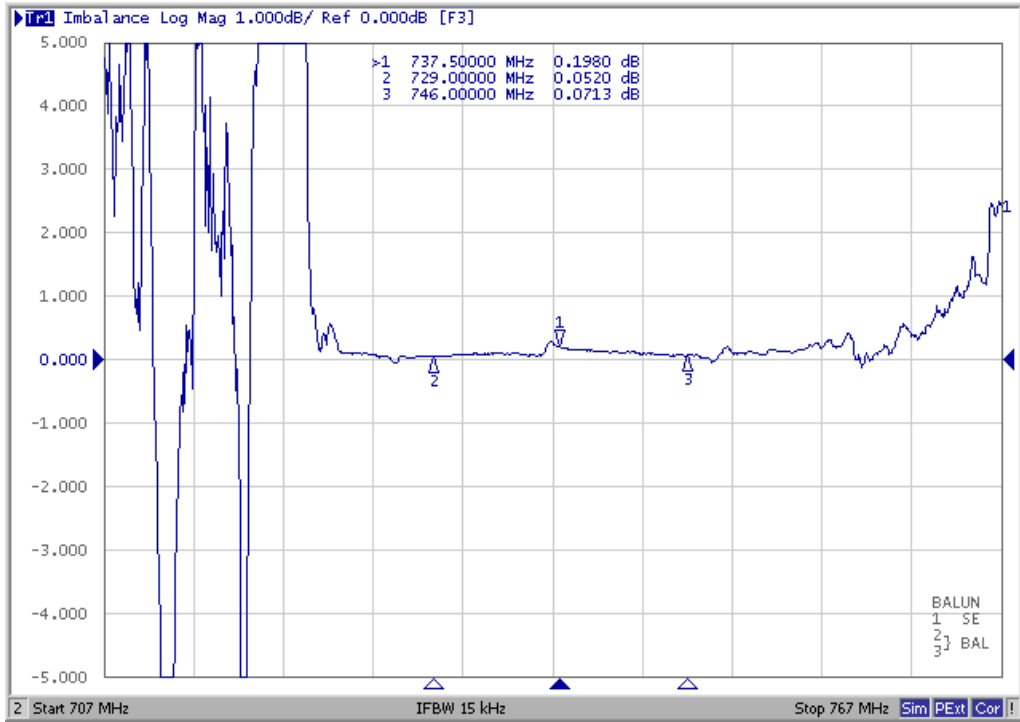
Smith Chart (S11)



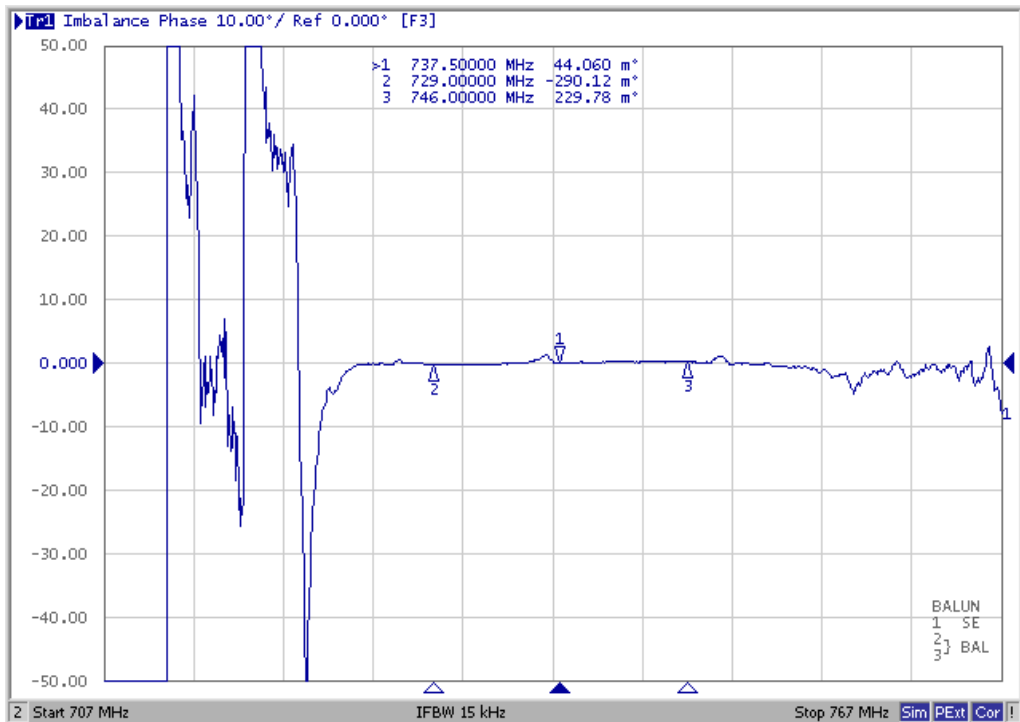
Smith Chart (S22)



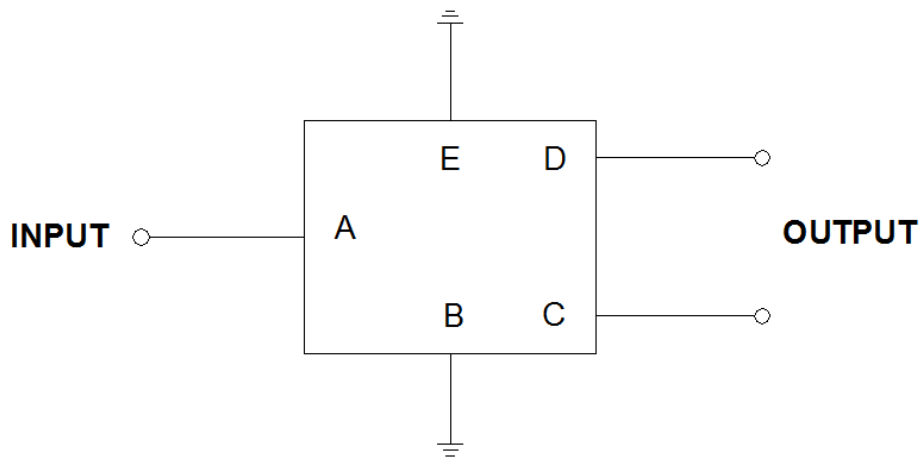
Amplitude balance



Phase balance

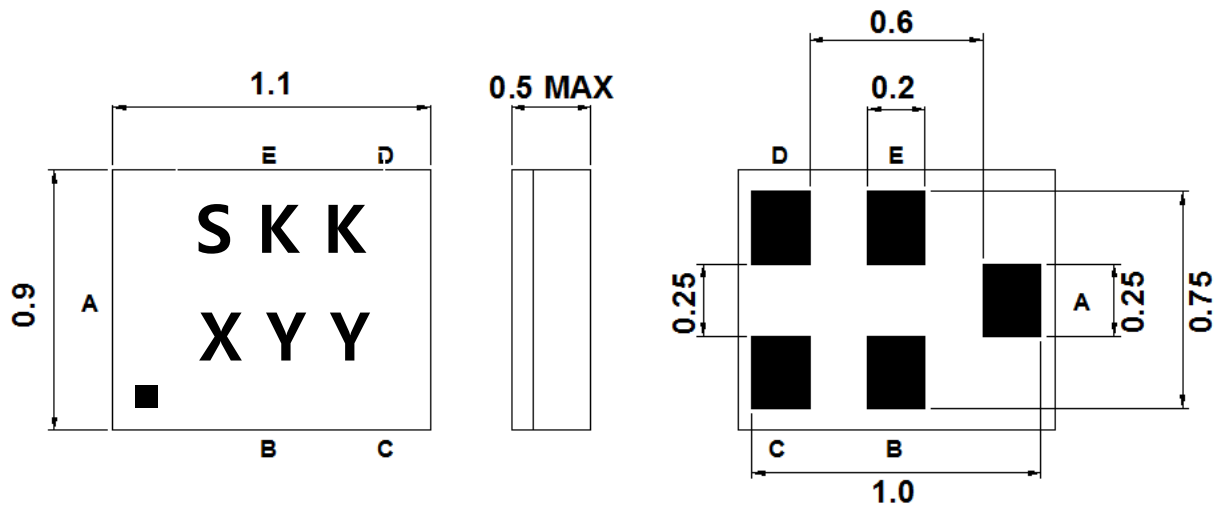


MEASUREMENT CIRCUIT



Source Impedance: 50 Ω
Load Impedance: 100 Ω

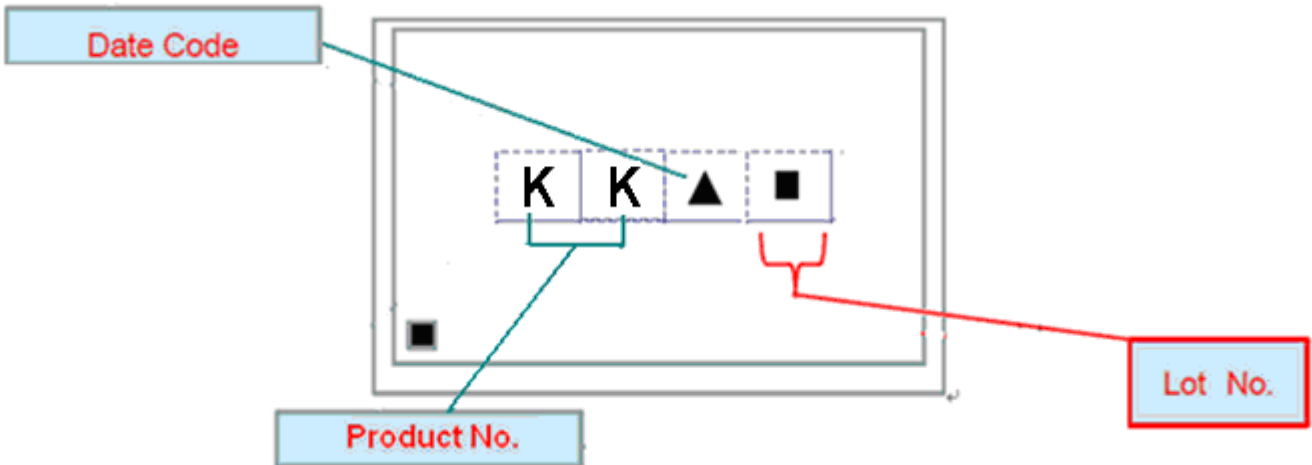
OUTLINE DRAWING



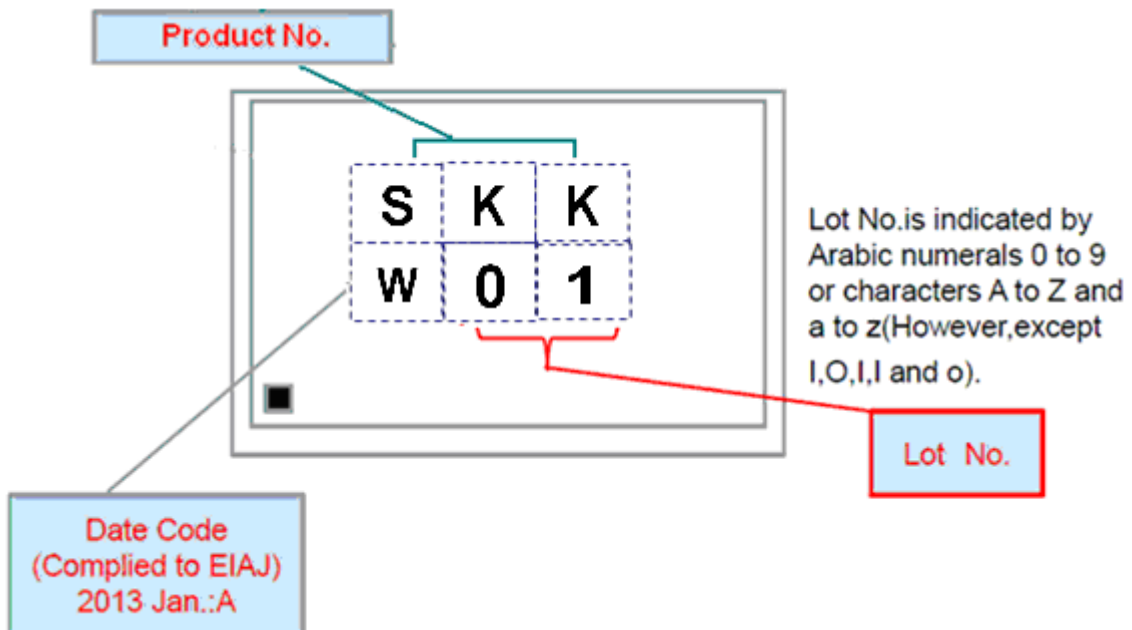
Marking Descriptions	
S	Product No 1
KK	Product No 2
X	Date Code(Year+Month)
YY	Lot No

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

Top View (Sample Run):



Top View (Pilot Run):

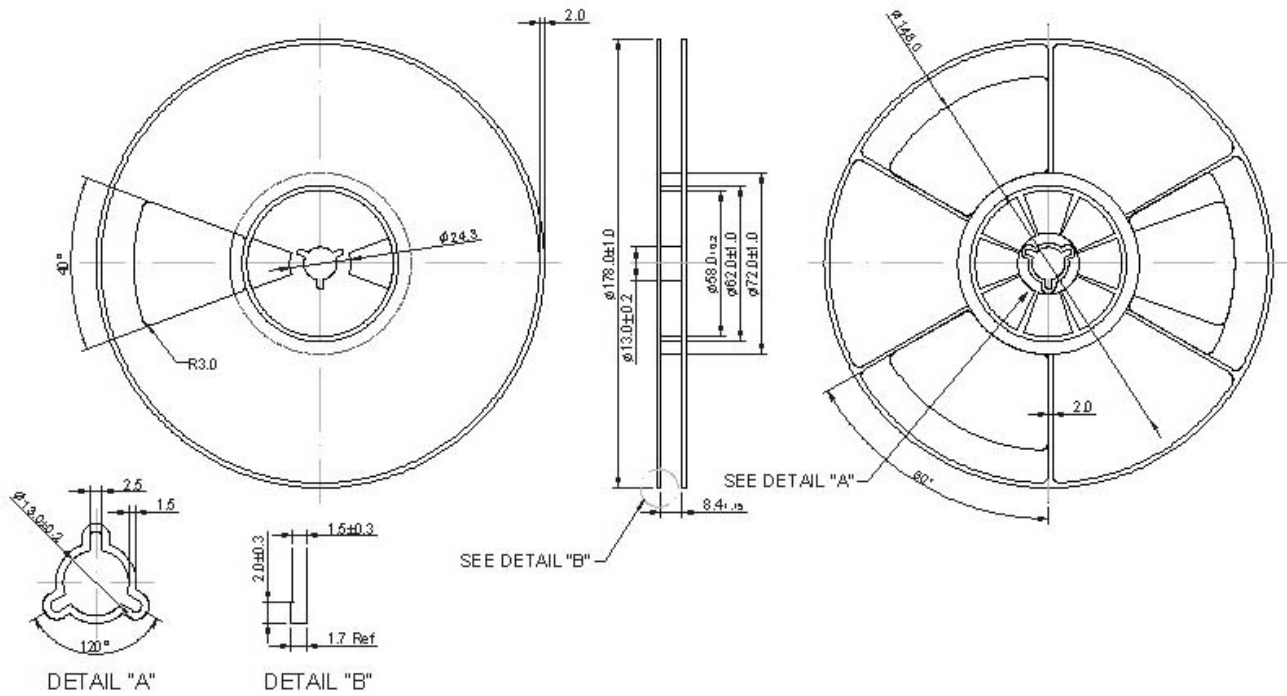


Product date Code (EIAJ)

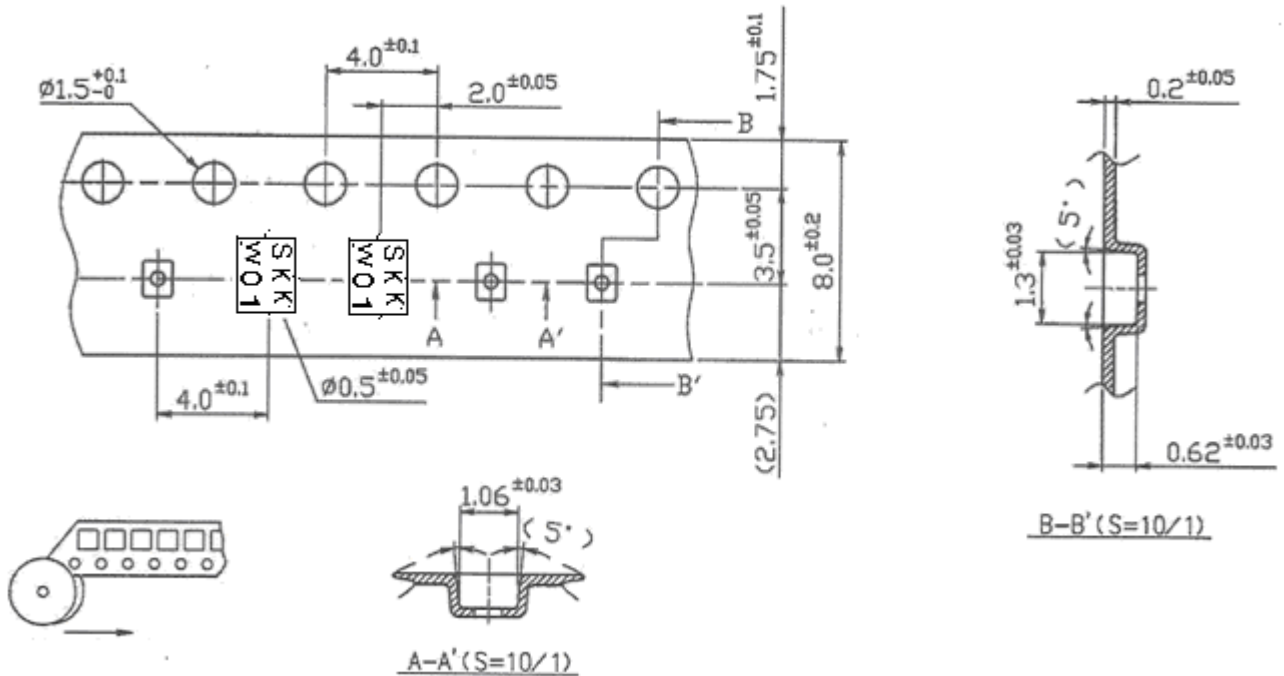
Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	a	b	c	d	e	f	g	h	j	k	l	m
2016	n	p	q	r	s	t	u	v	w	x	y	z
2017	A	B	C	D	E	F	G	H	J	K	L	M
2018	N	P	Q	R	S	T	U	V	W	X	Y	Z

**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.

