



MAXIMUM RATING

Maximum Input Power: 13 dBm(in passband)
Operating Temperature: -30 °C to +85 °C

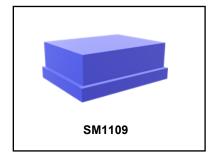
• Storage Temperature: -40 °C to +100 °C

• ESD: 100 V(MM), 200 V(HBM)

• Moisture Sensitive Level: Level 1(MSL1)

SF2545LM

836.5 MHz SAW Filter



ELECTRICAL CHARACTERISTICS

Terminating source impedance: $Zs = 50 \Omega$ Terminating load impedance: $ZL = 50 \Omega$

Paran	neters Description	Unit	Minimum	Typical	Maximum	
Center Frequency			-	836.5	-	
Insertion Loss	824~849 MHz	dB	-	1.9	2.3	
Amplitude ripple	litude ripple 824~849 MHz		-	0.8	1.3	
VSWR(Input)	824~849 MHz	-	-	2.0	2.3	
VSWR(Output)	824~849 MHz	-	-	2.0	2.3	
Attenuation:						
DC~750 MHz			35	41	-	
750~800 MHz		dB	28	34	-	
869~894 MHz	dB	40	45	-		
894~1050 MHz	dB	38	42	-		
1050~1210 MHz	dB	35	40	-		
1210~1580 MHz	dB	30	35	-		
1580~2000 MHz	dB	28	32	-		
2000~3000 MHz	dB	23	27	-		
3000~6000 MHz	dB	12	18	-		

Notes: (1) No Matching Network.

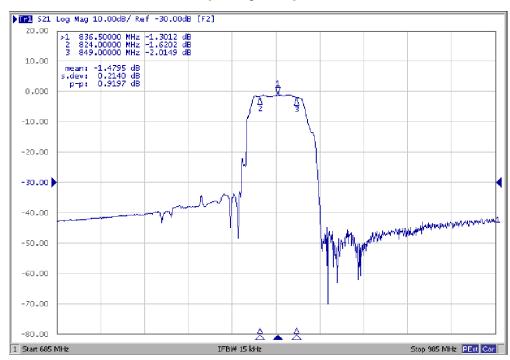


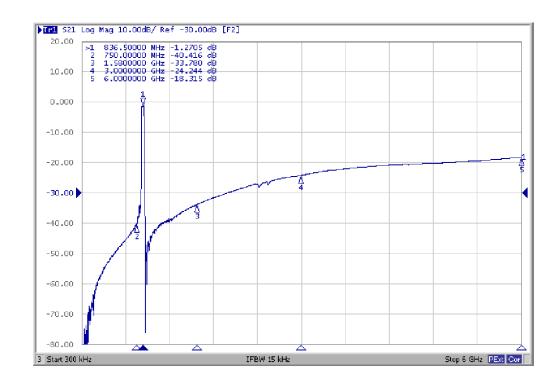
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

- 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.

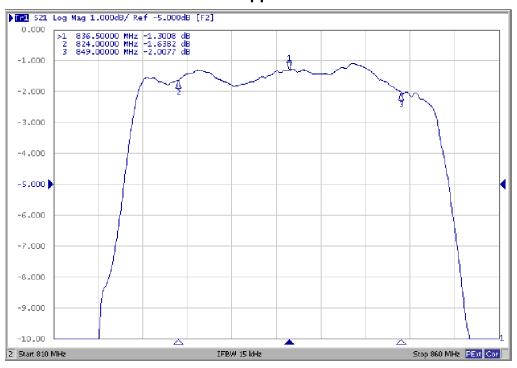
FREQUENCY CHARACTERISTIC:

Frequency Response

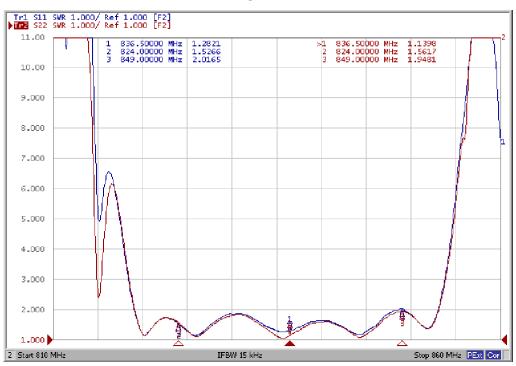




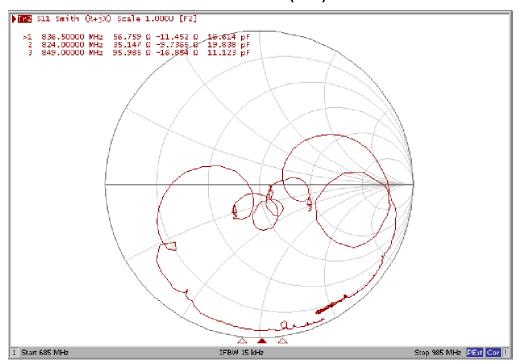
Ripple



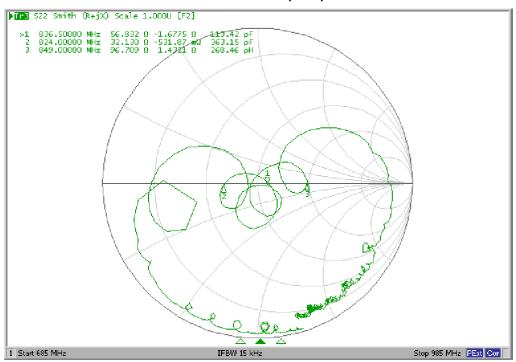
VSWR



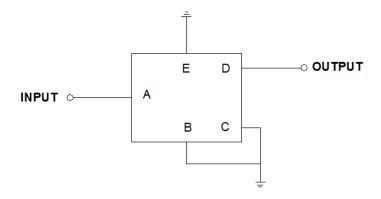
Smith Chart (S11)



Smith Chart (S22)

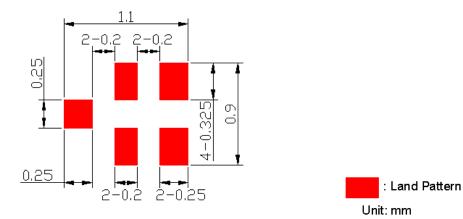


MEASUREMENT CIRCUIT:

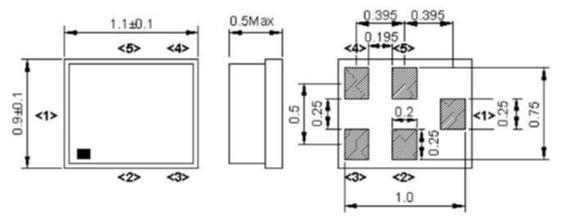


Source & Load Impedance: 50 Ω

PCB Footprint:



OUTLINE DRAWING:



Not Specified Tolerance: +/-0.1 mm

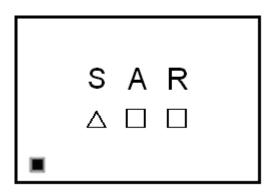
Pin Configuration

Pin No.	Symbol	Function			
1	IN	Unbalanced pin			
2	GND	Ground			
3	GND	Ground			
4	OUT	Unbalanced pin			
5	GND	Ground			

Top View (Sample Production):



Top View (Mass Production):



 \triangle : Date Code

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

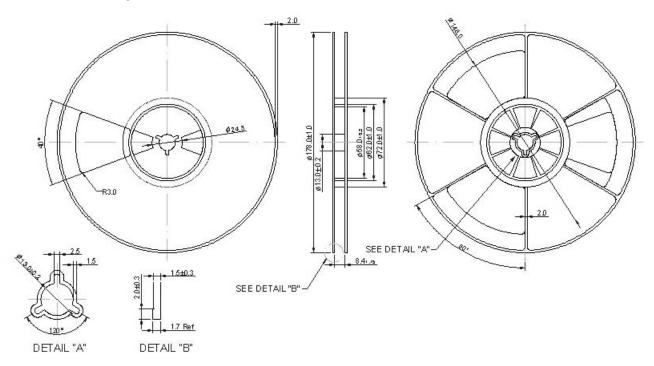
Date Code:

Year	Jan.	Feb.	Mar.	Apr.	May.	Jun.	Jul.	Aug.	Sep.	Oct.	Nov.	Dec.
2015	а	b	С	d	е	f	g	h	j	k		m
2016	n	р	q	r	s	t	u	V	W	X	У	z
2017	Α	В	O	D	Е	F	G	Н	J	K	Г	М
2018	N	Р	Q	R	S	Т	U	∇	W	Χ	Υ	Z

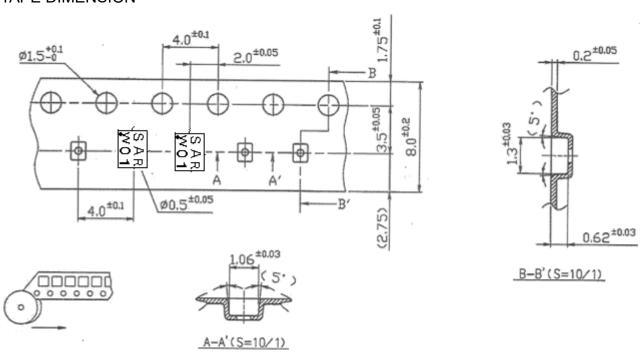
Reel Count 7" = 5000 13" = 10,000

PACKING:

REEL DIMENSION



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.

