



SF2558LM

MAXIMUM RATING

• Input Power Level: 10 dBm (In passband)

• DC Voltage: +/-5 V

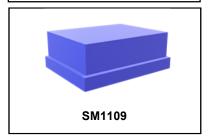
• Operating Temperature: -30 °C to +85 °C • Storage Temperature: -40 °C to +100 °C • Moisture Sensitive Level: Level 1 (MSL1)

• ESD: 100 V(MM), 200 V(HBM)

ELECTRICAL CHARACTERISTICS

Terminating source impedance: Zs=50 Ω

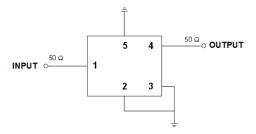
710 MHz **SAW Filter**



Terminating load impedance: $Z_L=50 \Omega$					
Parameters Description	Unit	Min.	Тур.	Max.	
Center Frequency	MHz	-	710	-	
Insertion Loss (704~716 MHz)	IL	dB(*1)	-	1.3	1.8
Amplitude Ripple(704~716 MHz)		dB	-	0.4	1.0
VSWR (704~716 MHz)		-	-	1.5	2.0
Attenuation (Reference level from 0 dB)					
DC ~ 674 MHz		dB	45	55	-
674 ~ 686 MHz		dB	35	47	-
734 ~ 746 MHz		dB	28	33	-
869 ~ 1800 MHz		dB	35	45	-
1800 ~ 3000 MHz		dB	25	40	-
3000 ~ 4000 MHz		dB	20	38	-
4000 ~ 5000 MHz		dB	20	37	-
5000 ~ 6000 MHz		dB	20	37	-

(*1) Specification of insertion loss includes loss that comes from the test board. (0.05 dB)

MEASUREMENT CIRCUIT

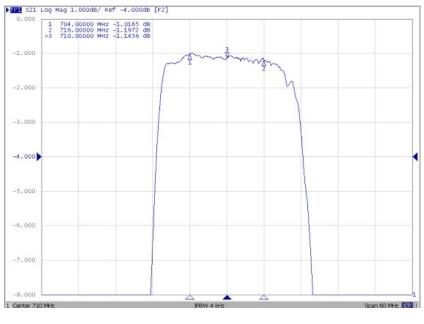


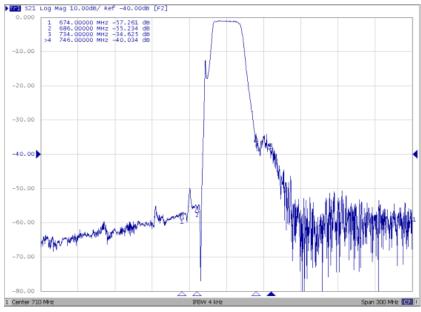


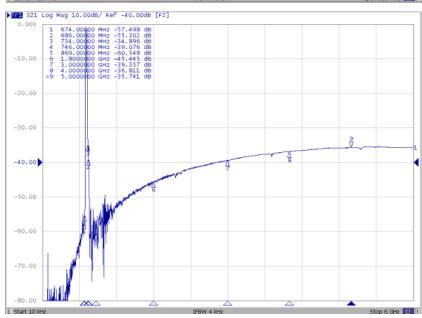
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. NOTES:

- 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 CHARATERISTIC

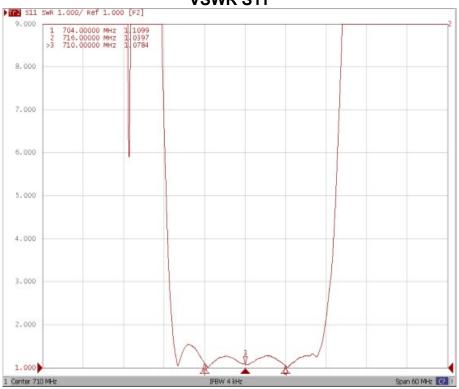




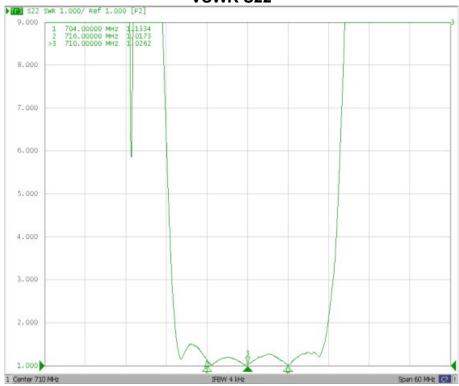


Reflection Functions:

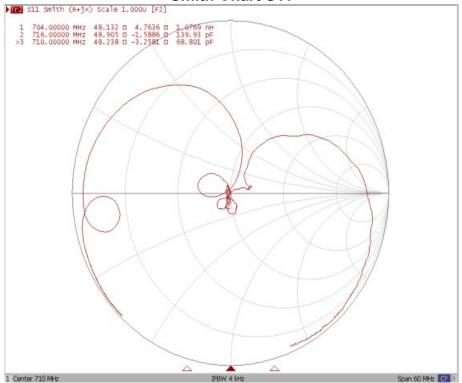
VSWR S11



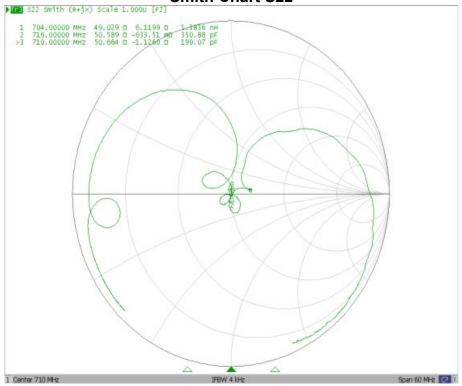
VSWR S22



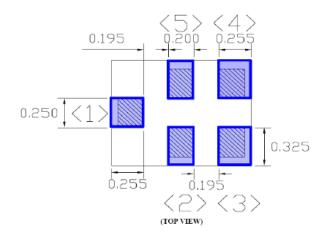
Smith Chart S11



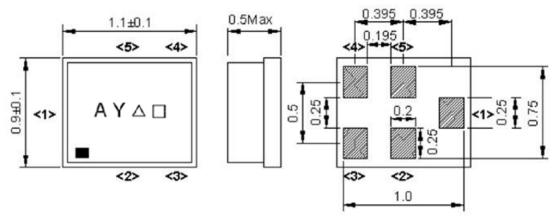
Smith Chart S22



PCB Footprint



OUTLINE DRAWING (Mass Production):



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

 \triangle : Date Code

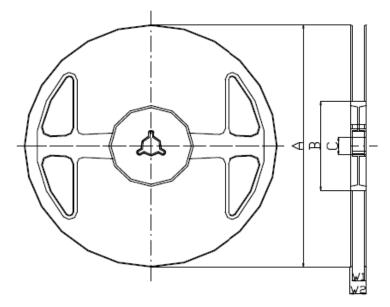
□ : Lot No. (Indicated by 0~9 or A to Z and a to z, except I, O, i, o and I)

Date Code												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2018	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2019	а	b	С	d	е	f	g	h	j	k	I	m
2020	n	р	q	r	S	t	u	٧	W	Х	у	Z
2021	Α	В	С	D	Е	F	G	Н	J	K	L	М

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

PACKING:

REEL DIMENSION



Materials of Reel

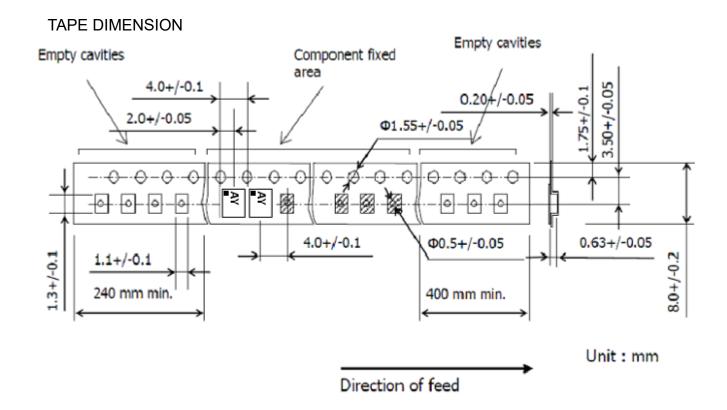
Material: Polystyrene + Carbon

Color: Black

Surface resistance (reference value) : $10^9\Omega$ /sq Max.

Unit :	mm
W2	\Box

Α	В С		W1	W2	
ф 180.0 +0.0/-1.5	φ 66.0 +/-0.5	φ 13.0 +/-0.2	9.0 +1.0/-0.0	11.4 +/-1.0	



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.

