



MAXIMUM RATING

• Input Power Level: 10 dBm

DC Voltage: +/-5 V

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

• ESD: 100 V(MM), 200V(HBM)

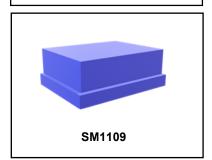
AEC-Q200 Qualified

ELECTRICAL CHARACTERISTICS

Terminating source impedance: Zs=50 Ω Terminating load impedance: ZL=50 Ω

SF2554LA

707.5 MHz SAW Filter



Parameters Description	Unit	Min.	Тур.	Max.	
Center Frequency	Fc	MHz	-	707.5	-
Insertion Loss (699~716 MHz)	IL	dB(*1)	-	1.6	2.5
Amplitude Ripple (699~716 MHz)		dB	-	0.6	1.7
VSWR (699~716 MHz)		-	-	1.7	2.1
Attenuation (Reference level from 0 dB)					
1 ~ 692 MHz		dB	18	37	-
729 ~ 746 MHz		dB	13	23	-
1386 ~ 1442 MHz		dB	40	47	
1574.42 ~ 1576.42 MHz		dB	38	46	-
2084 ~ 2158 MHz		dB	30	42	-
2782 ~ 2874 MHz		dB	25	39	-

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

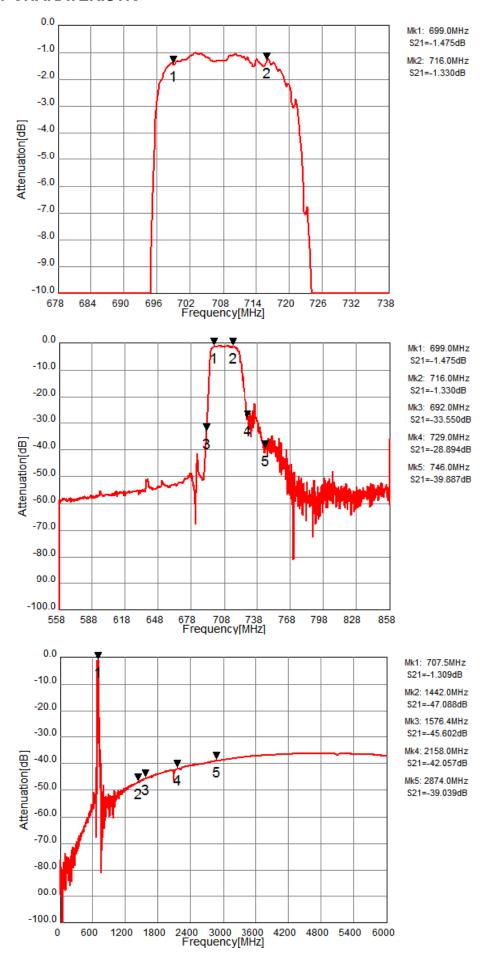
MEASUREMENT CIRCUIT 5 4 1 2 3



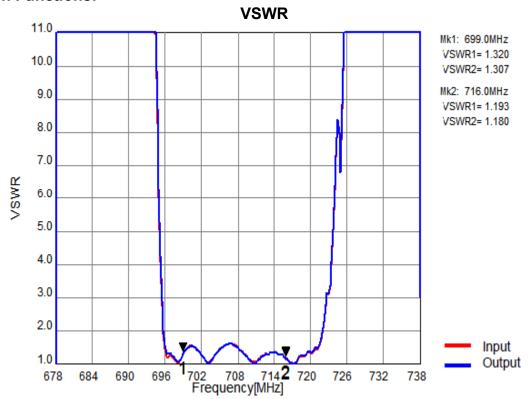
CAUTION: Electrostatic Sensitive Device. Observe precautions for handling. **NOTES:**

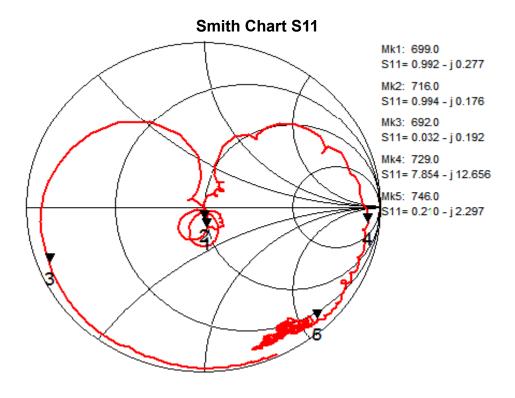
- 1. The design, manufacturing process, and specifications of this device are subject to change.
- 2. US or International patents may apply.
- 3. RoHS compliant from the first date of manufacture.

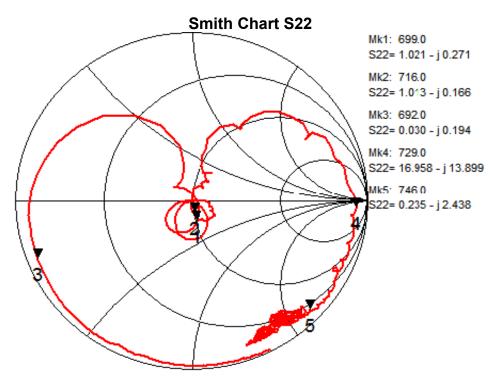
FREQUENCY CHARATERISTIC



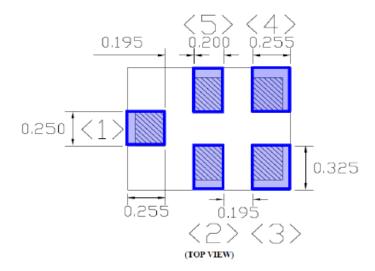
Reflection Functions:



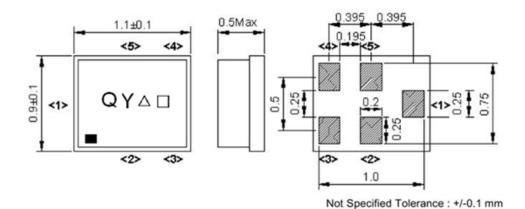




PCB Footprint



OUTLINE DRAWING



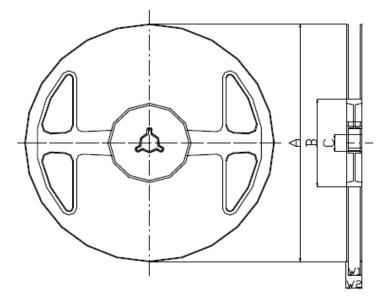
Date Code												
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2017	Α	N	С	D	Е	F	G	Н	J	K	L	M
2018	N	Р	Q	R	S	Т	U	V	W	Х	Υ	Z
2019	а	b	С	d	е	f	g	h	j	k	I	m
2020	n	р	q	r	S	t	u	٧	W	Х	у	Z

Pin Configuration

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

PACKING

REEL DIMENSION



Materials of Reel

Material: Polystyrene + Carbon

Color: Black

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

Unit: mm

Code	Quantity	Α	В	С	W1	W2
J	5,000 pcs	ф 180.0 +0.0/-1.5	ф 66.0 +/-0.5	φ 13.0 +/-0.2	9.0 +1.0/-0.0	11.4 +/-1.0

TAPE DIMENSION Empty cavities Empty cavities Component fixed area 4.0 + / - 0.1/-0.05 2.0+/-0.05 Φ1.55+/-0.05 4.0+/-0.1 0.63 + / -0.05 $\Phi 0.5 + / -0.05$ 1.3 + /-0.11.1+/-0.1 240 mm min. 400 mm min. Unit: mm Direction of feed

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.

