

Preliminary



- Low-loss UHF SAW Filter
- Single-ended Input, Balanced Output
- 3.0 x 3.0 mm Surface-Mount Package
- Complies with Directive 2002/95/EC (RoHS)
- Moisture Sensitivity Level: 1
- AEC-Q200 Qualified

Maximum Ratings

Rating	Value	Units	
Input Power Level	+15	dBm	
DC Voltage on any Non-ground Terminal	3	V	
Operable Temperature Range	-45 to +125	°C	
Operating Temperature Range	-40 to +105	°C	
Component Storage Temperature Range	-40 to +105	°C	
Tape and Reel Storage Temperature Range	-40 to +85	°C	
Solder Reflow Temperature, 10 seconds/5 cycles maximum	260	°C	



SF1219E-1

2338.75 MHz

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _O		2338.75		MHz	
Maximum Insertion Loss, 2332.5 to 2345 MHz	IL _{MAX}			2.1	3.0	dB
Amplitude Ripple, 2332.5 to 2345 MHz				0.4	1.4	dB _{P-P}
Group Delay Ripple, 2332.5 to 2345 MHz				4	12	ns _{P-P}
Input Return Loss, 2332.5 to 2345 MHz			6.5	20		dB
Output Return Loss, 2332.5 to 2345 MHz			6.5	23		dB
Attenuation, 0 dB Reference:						
88 to 108 MHz			60	70		
880 to 960 MHz			50	54		
1710 to 1910 MHz			40	46		
2305 MHz				17		
2310 MHz				10		dB
2315 MHz				6		
2320 MHz				4		
2450 MHz			30	35		
3060 MHz			35	50		
Single-ended Source Impedance	Z _S			50		Ω
Balanced Load Impedance	ZI			100		Ω

Case Style	SM3030-6 3 x 3 mm Nominal Footprint		
Lid Symbolization y=year, ww=week, s=shift, dot=pin 1 indicator	989 <u>YWWS</u>		
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel		
Reel Size 13 Inch	3000 Pieces/Reel		



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:

Format: LogMag REF: 0dB



Frequency Characteristics: (continued)

Format: LogMag REF: 0dB





START 2288.00 MHz

STOP 2388.00 MHz 2017/02/07





Tape and Reel Specifications



Tape Dimension



6-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint



Electrical Connections

Connection	Terminals		
Input	2		
Balanced Output	4, 6		
Ground	1, 3, 5		

Dimensions	s Millimeters			Inches		
				Min	Nom	Мах
A	2.87	3.0	3.13			
В	2.87	3.0	3.13			
С	0.90	1.0	1.10			
D		0.75				
E		0.75				
F		1.50				
G		0.60				



Measurement Circuit

Zin: 50 ohm Zout: 100 ohm



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 (10 seconds).
- 4. Time: 5 times maximum.

