

- Low Loss L-Band SAW Filter
- 200 ohm Balanced Input and Output Ports
- Complies with Directive 2002/95/EC (RoHS)

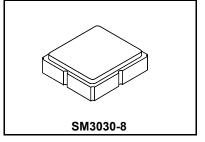


Maximum Rating

Rating	Value	Units
Input Power Level	0	dBm
DC Voltage on any Non-ground Terminal	3	V
perating Temperature Range -40 to +85 °		°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Suitable for Lead-free Soldering - Maximum Soldering Profile	260 °C for 30 s	

SF2017E

1220 MHz **SAW Filter**



Electrical Characteristics

Characteristic	Sym	Notes	Min	Тур	Max	Units
Center Frequency	f _C			1220		MHz
Insertion Loss, 1216 to 1224 MHz	IL			3.4	5.3	dB
Amplitude Ripple, 1216 to 1224 MHz				0.6	1.8	dB _{P-P}
Attenuation, Referenced to 0 dB						
500 to 1129 MHz			50	57		
1129 to 1135 MHz			50	57		1
1144 to 1152 MHz			46	57		
1132 MHz			50	57		40
1148 MHz			48	57		dB
1176 MHz			50	56		
1184 MHz			46	55		1
1290 to 2000 MHz			50	55		1 !
Group Delay Ripple, 1216 to 1224 MHz				12		ns _{P-P}
Balanced Source Impedance				200		ohms
Balanced Load Impedance				200		ohms

Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint	
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	898, YWWS	
Standard Reel Quantity Reel Size 7 Inch	500 Pieces/Reel	
Reel Size 13 Inch	3000 Pieces/Reel	

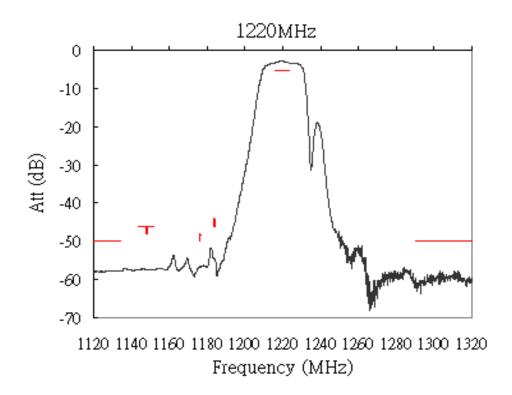
	Connection	Terminals	
Port 1	Balanced Input	1,2	
Port 2	Balanced Output	5,6	
	Ground	All Others	
Dot Indicates Pin 1			

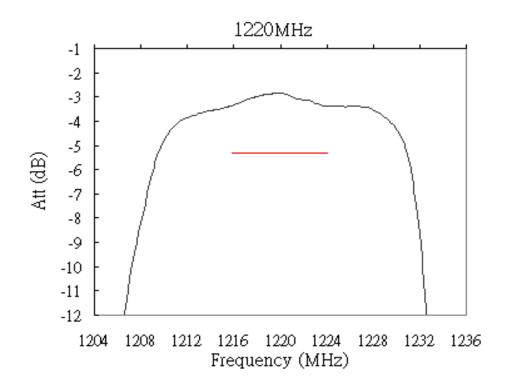


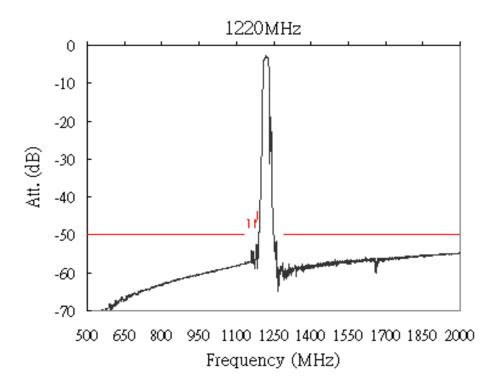
▲ CAUTION: Electrostatic Sensitive Device. Observe precautions for handling.

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Frequency Response Plots

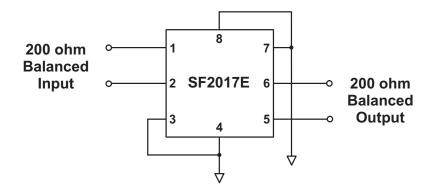




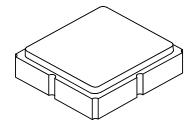


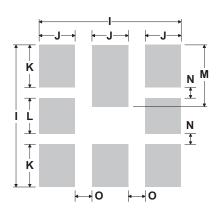
Matching Network Topology

SF2017E Test Circuit



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





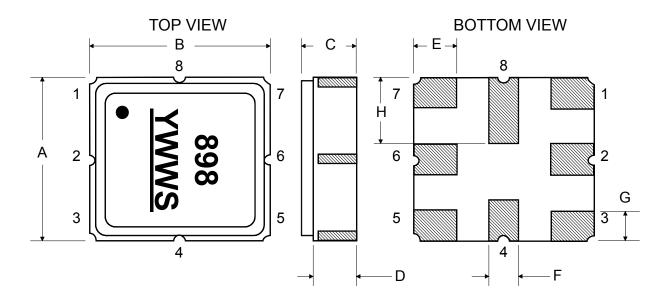
PCB Footprint Top View

Case and PCB Footprint Dimensions

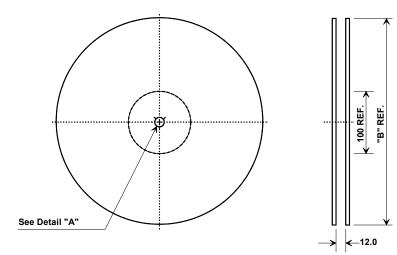
Dimension	mm			Inches		
Dimension	Min	Nom	Max	Min	Nom	Max
Α	2.87	3.0	3.13	0.113	0.118	0.123
В	2.87	3.0	3.13	0.113	0.118	0.123
С	1.14	1.27	1.40	0.045	0.050	0.055
D	0.79	0.92	1.05	0.031	0.036	0.041
E	0.62	0.75	0.88	0.024	0.029	0.034
F	0.47	0.60	0.73	0.018	0.024	0.029
G	0.47	0.60	0.73	0.018	0.024	0.029
Н	1.07	1.20	1.33	0.042	0.047	0.052
I		3.19			0.126	
J		0.81			0.032	
K		0.96			0.038	
L		0.81			0.032	
М		1.39			0.055	
N		0.23			0.009	
0		0.38			0.015	

Case Materials

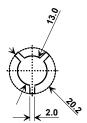
Materials			
Solder Pad Plating	0.3 to 1.0 μm Gold over 1.27 to 8.89 μm Nickel		
Lid Plating	2.0 to 3.0 µm Nickel		
Body	Al ₂ O ₃ Ceramic		
Pb Free			



Tape and Reel Specifications



"B" Nominal Size		Quantity Per Reel
Inches	millimeters	
7	178	500
13	330	3000



COMPONENT ORIENTATION and DIMENSIONS

Carrier Tape Dimensions	
•	I
Ao	3.35 mm
_	
Во	3.35 mm
	0.00
Ko	1.4 mm
1.0	***************************************
Pitch	8.0 mm
1 1(011	0.0 111111
W	12.0 mm
• • • • • • • • • • • • • • • • • • • •	12.0 111111

