

# Discontinued

#### • SAW Filter for Digital Television

Complies with Directive 2011/65/EU (RoHS)

#### **Characteristics :**



Balance-to-Balanced Operation

Terminating Source/Load Impedance:  $Z_S$  = 150  $\Omega$ 

#### **Maximum Rating**

Rating	Value	Units
Input Power Level	0	dBm
DC Voltage on any Non-ground Terminal	3	V
Operating Temperature Range	-40 to +85	°C
Storage Temperature Range in Tape and Reel	-40 to +85	°C
Maximum Soldering Profile, 5 cycles/ 10 seconds maximum	265	°C

## SF2169E

# 1790.48 MHz **SAW Filter**



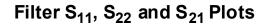
#### **Electrical Characteristics**

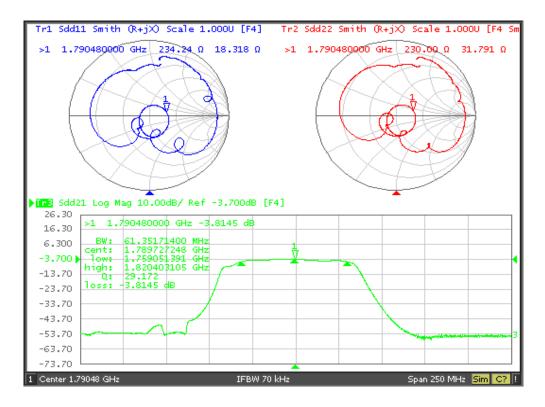
Characteristic	Sym	Notes	Min	Тур	Мах	Units	
Center Frequency	f <sub>C</sub>			1790.48		MHz	
Maximum Insertion Loss, 1770.48 to 1810.48 MHz	IL <sub>MAX</sub>			4.5	5.5	dB	
1.5 dB Passband				61		MHz	
Amplitude Ripple, 1770.48 to 1810.48 MHz				1.0	1.8	dB	
Attenuation, Referenced to IL <sub>MAX</sub>							
50 to 1708.42 MHz			40	45			
1872.54 to 1900 MHz			37	50		dB	
1900 to 2000 MHz			44	48		- ив	
2000 to 6000 MHz			20	30			
Group Delay Ripple, 1770.48 to 1810.48 MHz				5	20	ns <sub>P-P</sub>	
Case Style	SM3030-8 3.0 x 3.0 mm Nominal Footprint						
Lid Symbolization (Y=year, WW=week, S=shift) dot=pin 1 indicator	856, <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:

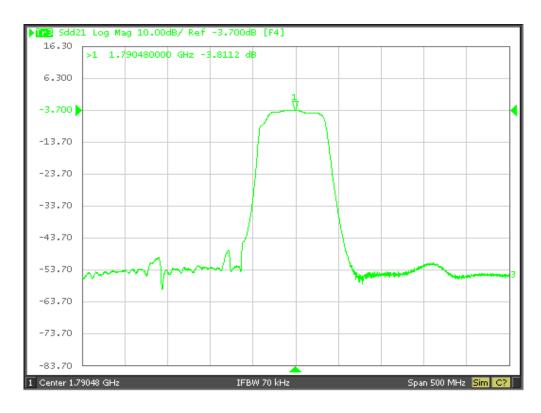
1.

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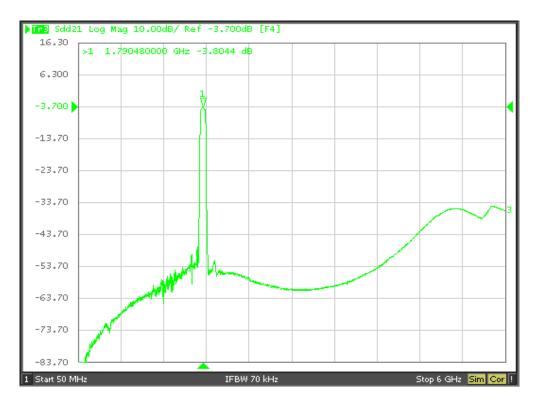




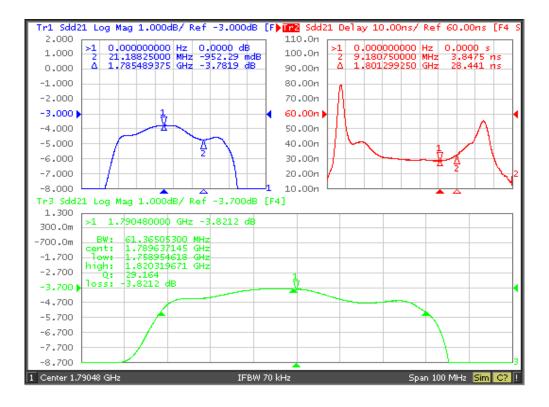
## **Filter Near-in Rejection**



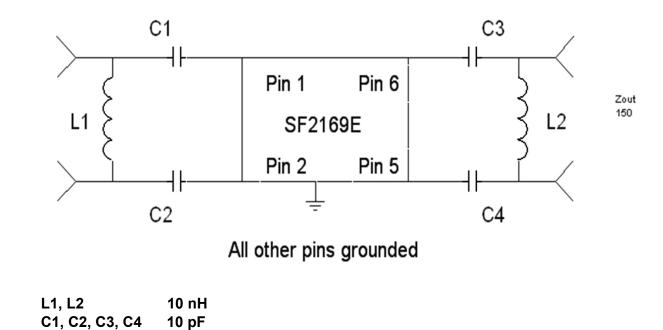
## **Filter Broadband Rejection**



## Filter Passband Amplitude and Group Delay Detail





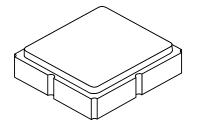


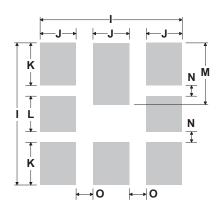
Downloaded from Arrow.com.

Zin

150

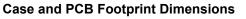
## 8-Terminal Ceramic Surface-Mount Case 3.0 X 3.0 mm Nominal Footprint





PCB Footprint Top View

**TOP VIEW** 

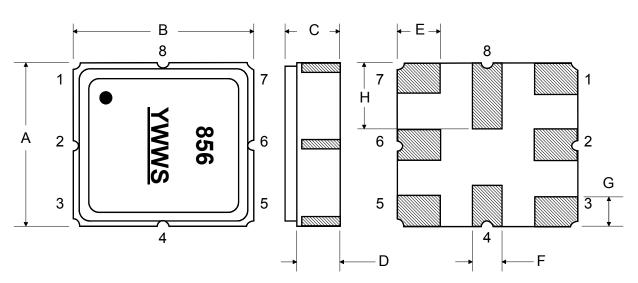


Dimension	mm			Inches			
Dimension	Min	Nom	Max	Min	Nom	Max	
Α	2.87	3.0	3.13	0.113	0.118	0.123	
В	2.87	3.0	3.13	0.113	0.118	0.123	
С	1.14	1.27	1.40	0.045	0.050	0.055	
D	0.79	0.92	1.05	0.031	0.036	0.041	
E	0.62	0.75	0.88	0.024	0.029	0.034	
F	0.47	0.60	0.73	0.018	0.024	0.029	
G	0.47	0.60	0.73	0.018	0.024	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		
К		0.96			0.038		
L		0.81			0.032		
м		1.39			0.055		
N		0.23			0.009		
0		0.38			0.015		

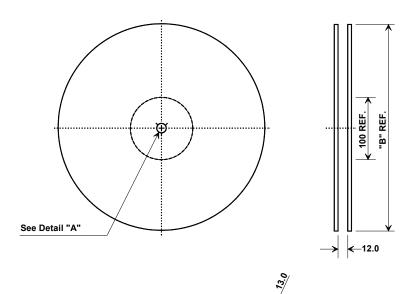
#### **Case Materials**

Materials				
Solder Pad Plating	0.3 to 1.0 $\mu m$ Gold over 1.27 to 8.89 $\mu m$ Nickel			
Lid Plating	2.0 to 3.0 µm Nickel			
Body	Al <sub>2</sub> O <sub>3</sub> Ceramic			
Pb Free				





## **Tape and Reel Specifications**



"	'B"	Quantity Per Reel		
Inches	millimeters	Qualitity Fer Keer		
7	178	500		
13	330	3000		

Carrier Tape Dimensions				
Ao	3.35 mm			
Во	3.35 mm			
Ко	1.4 mm			
Pitch	8.0 mm			
W	12.0 mm			

### **COMPONENT ORIENTATION and DIMENSIONS**

2.0

