

# **SPECIFICATION**

## **COMMERCIALY AVAILABLE**

**ITEM: SAW FILTER**  
**PART NUMBER: SF0050016**

**RoHS**

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED
11/19/09 kn				
9/26/11 kn	<b>01/30/2012 TFG</b>		<b>01/30/2012 GL</b>	

***FILTRONETICS Inc***

## 1. Electrical Specifications:

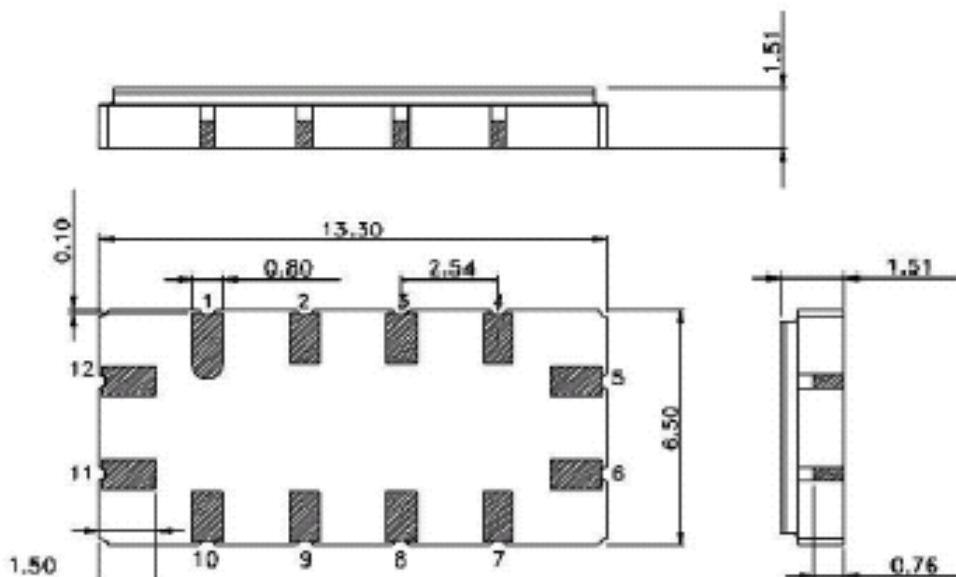
	Unit	Min	Typical	Max	Comments
Operation Temperature	°C	-40	25	+85	
Center Frequency, Fc	MHz	49.85	50.0	5.15	
Insertion Loss	dB		14.7	16.0	
Passband Ripple	dB		0.50	1.0	Fc ± 7.5MHz
1dB BW	MHz		16.2		
3dB BW	MHz	16.0	17.1		
30dB BW	MHz		20.0	21.0	
40dB BW	MHz		20.6		
Group Delay Variation	nsec		50	100	Fc ± 8MHz
Ultimate Rejection	dB	40	45		
Temp Coefficient	ppm/K	-94			
Package	mm <sup>3</sup>	13.3x6.5x1.8			
Notes	1. ROHS Compliant 2. Frequency Shift : 50.0*94*125 ~ 0.60 MHz				

Marking:  
 Filtronetics, Inc  
 SF0050016  
 Date Code

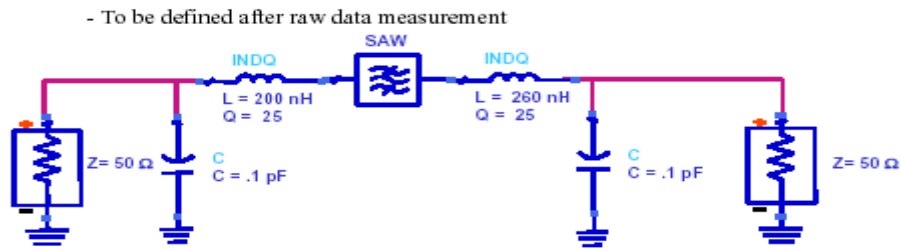
## 2. Mechanical Package

PKG 13.3x6.5 mm<sup>2</sup>

Input+: 11  
 Output+: 5  
 Ground: others



Matching Circuit



3. Simulation:

SF0050016\_r.s2p(raw), SF0050016\_m.s2p(matched)

