

SPECIFICATION
COMMERCIALY AVAILABLE

ITEM: SAW BAND PASS
PART NUMBER: SF174196
RoHS

Revised By: kn 5/8/09
 KN 12/23/09 Changed Typical I.L., 3dB BW, Rejection & Group Delay

ISSUED	CHECKED	CHECKED	CHECKED	APPROVED
1/29/2007 **				
5/8/2009 kn				
12/23/2009 kn				
12/13/2012 kn	03/29/2013 TFG	03/29/2013 GL	03/29/2013 GL	03/29/2013 TFG

FILTRONETICS Inc

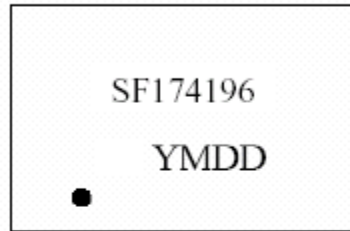
1. Part Number: SF174196

2. Electrical Specifications:

		Unit	Min	Typical	Max	Note
Center Frequency, fc		MHz	-	173.9	-	-
Insertion Los		dB	-	13.4	14	-
2dB Bandwidth		MHz	18.9	19.2	-	-
3dB Bandwidth		MHz	19.3	19.7	-	-
10dB Bandwidth		MHz	-	21	21.2	-
20dB Bandwidth		MHz	-	21.9	22.0	-
Rejection	Fc -100 ~ Fc -20MHz	dBc	40	52	-	-
	Fc +20 ~ Fc +100MHz	dBc	40	46	-	-
Amplitude Ripple		dB	-	0.7	1.0	At Fc ±8MHz
Group Delay Variation		P-P Nsec	-	50	150	At Fc ±9MHz
Phase Linearity		P-P deg	-	13	15.0	-
Operating Temperature Range		°C	-30	25	+70	-
Temperature Coefficient		PPM/°C ²	-	-23	-	-
In/Out Return Impedance		Ohm	50 Single/Single			-
Package		mm ³	7.0 x 5.0 x 1.85			-
Notes						

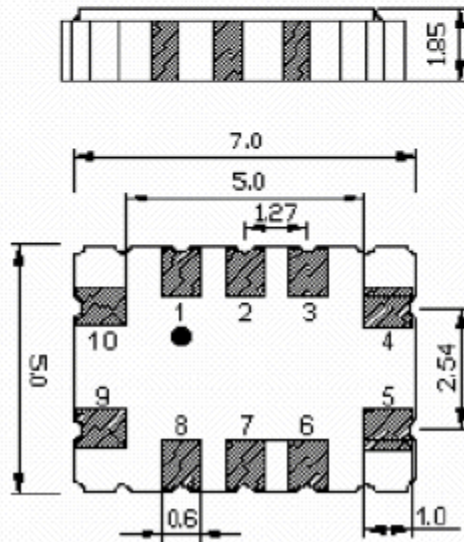
3. Mechanical Package:

PKG 5.0X7.0 mm²

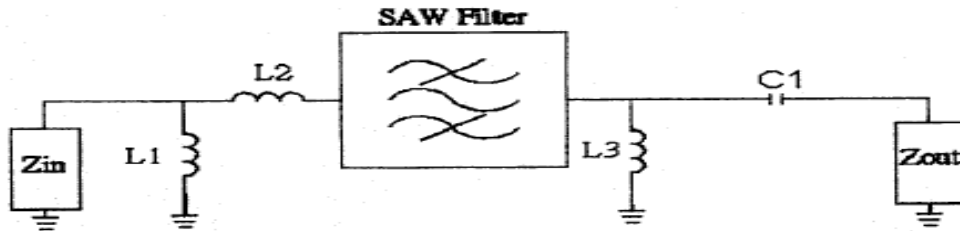


Input + : 9
 Input - : 10
 Output + : 4
 Output - : 5
 Ground : others

Y : Year
 M : Month
 DD : Date



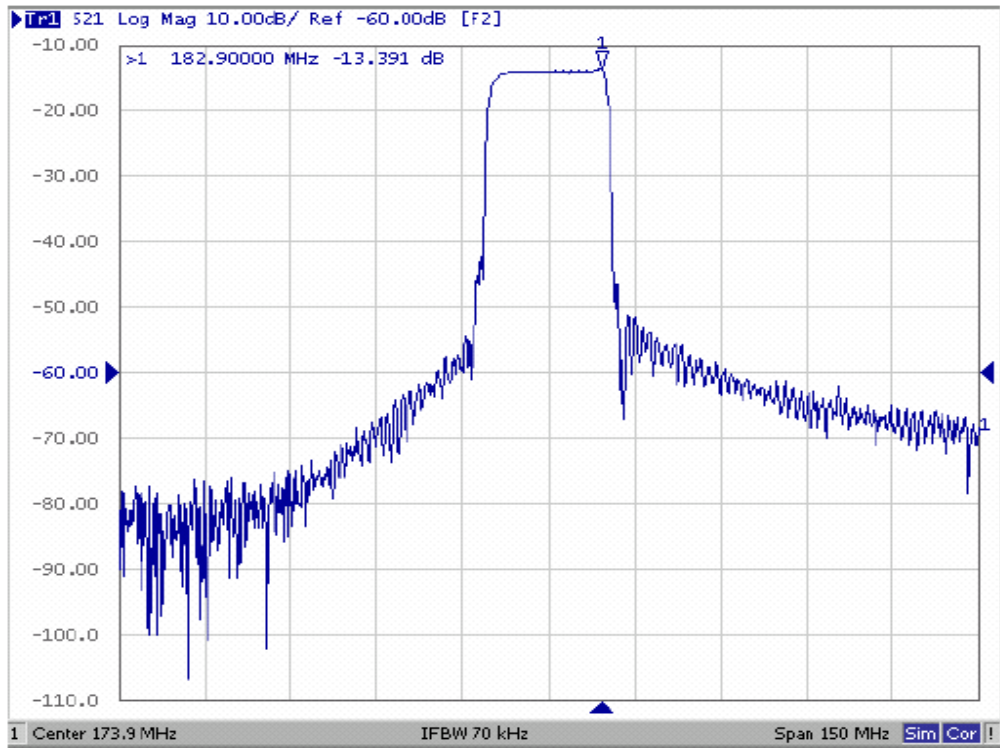
Matching Circuit



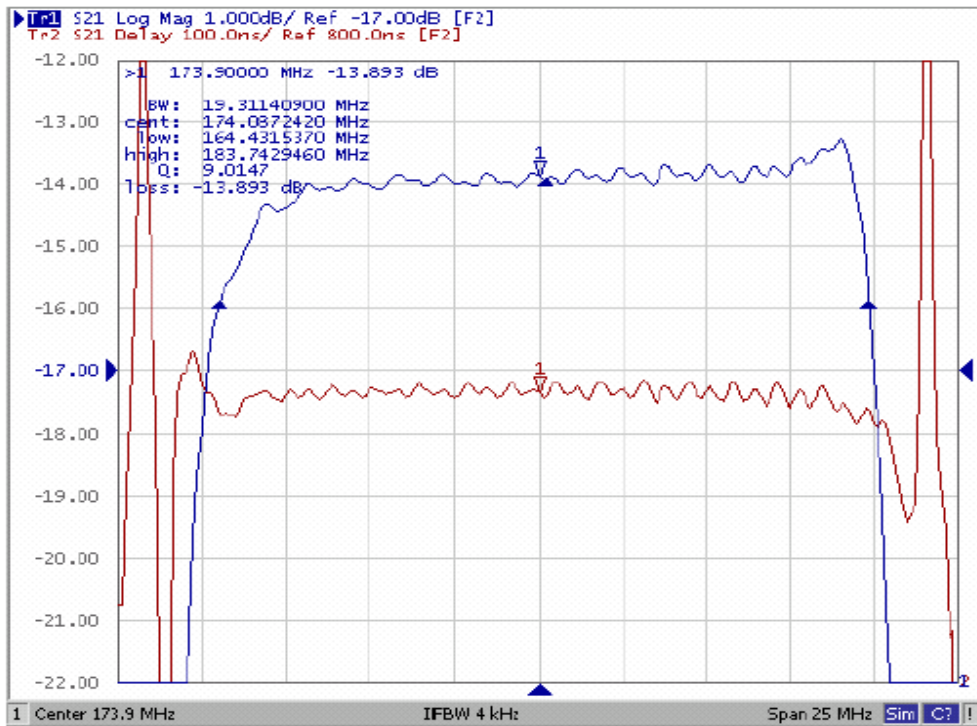
$Z_{in}=50\ \Omega$, Z_{out} are $200\ \Omega$.
 $L1=18\text{nH}$, $L2=22\text{nH}$, $L3=53.6\text{nH}$, $C1=6\text{pF}$.

4. Plots:

(1) wide band Response: (span 100MHz)



(2) Pass band Response: (span: 25MHz)



(3) S11&S22 Smith-Chart: (span 100MHz)

