

SPECIFICATION

COMMERCIALY AVAILABLE

SAW BAND PASS
PART NUMBER: SF0070005B

11/12/2018 – REVISED TO ADD TEMPERATURE DRIFT

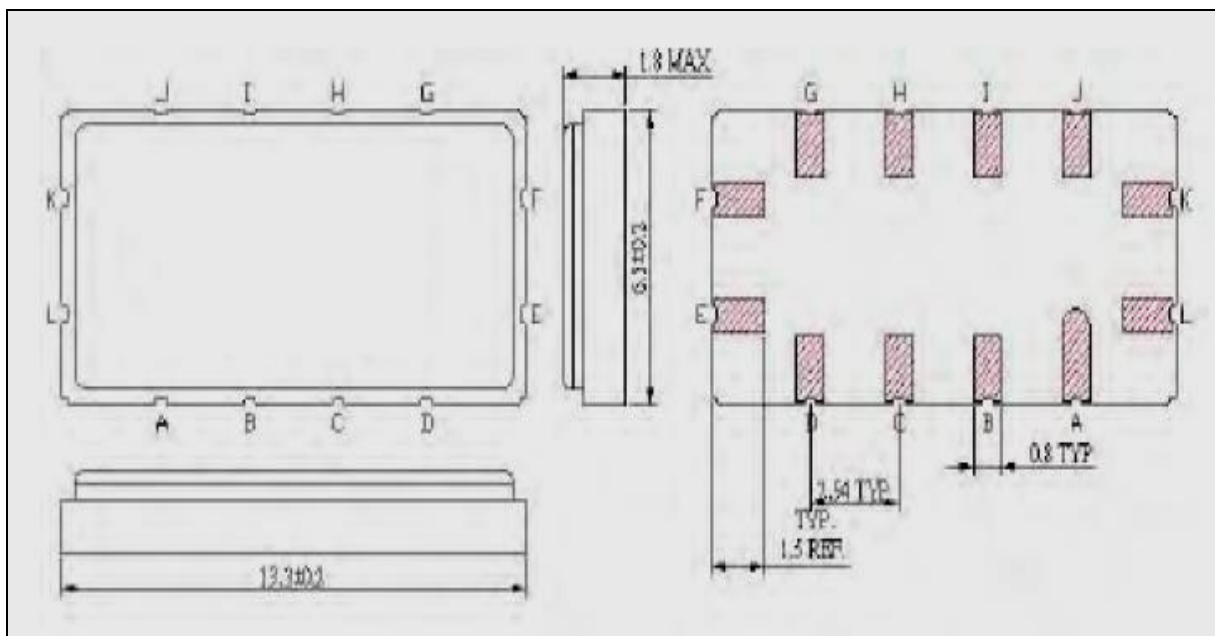
ISSUED / REVISION	ENGINEER APPROVED	DOCUMENT CHECKED	DRAFTSMAN
3/8/16 ^(kn)			
11/12/2018 ^(ASM)			

FILTRONETICS Inc

1. Electrical Specifications:

Item	Unit	Min	Typ	Max
Center Frequency, Fc	MHz	69.8	70	70.2
Insertion Loss, IL	dB	-	8	9
1dB Bandwidth	MHz	4.35	4.45	-
3dB Bandwidth	MHz	5	5.5	-
40dB Bandwidth	MHz	-	8.64	10.25
Passband Ripple (68.26MHz ~ 71.74MHz)	dB	-	0.78	1
Phase Linearity (68MHz ~ 72MHz) (rms)	Deg	-	6.28	9.5
Group Delay Ripple (68MHz ~ 72MHz)	nS	-	119	150
Absolute Delay	µS	-	0.84	-
Attenuation: (Reference Level from Min IL)	0 ~ 64.875MHz	40	45	-
	75.125 ~ 140MHz	40	44	-
Substrate Material	-	YZ-LN		
Temperature Coefficient	ppm/°C	-94		
Temperature Drift (-50° to +85°C)	MHz	±0.62		
Ambient Temperature	°C	25		
Input Power Level	dBm	10		

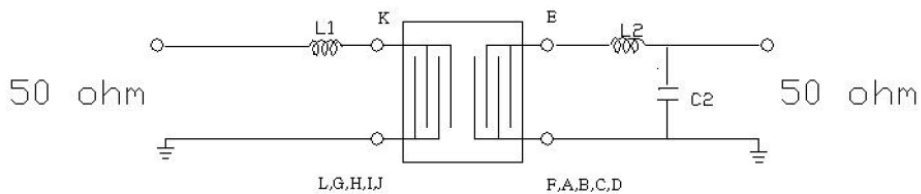
2. Dimension: mm



RF Input	K
RF Output	E
Input Ground	L
Output Ground	F
To be Grounded	A, B, C, D, J, I, H, G

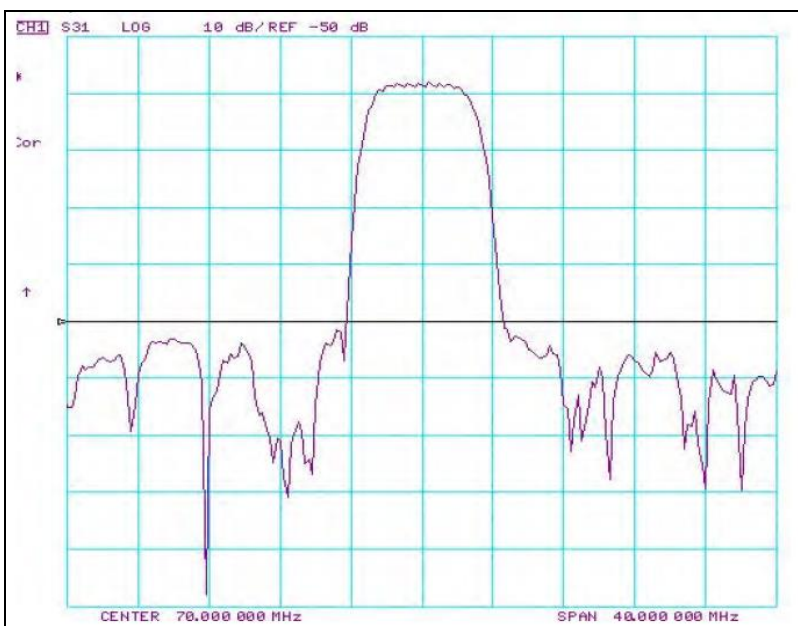
Marking:
SF0070005B
Date Code

Measurement Circuit
(For 50 Ohm Unbalanced Input & Output)



L1 = 220nH, L2 = 120nH, C2 = 10pF

3. Simulation:



Horizontal: 4MHz/Div Vertical: 10dB/Div



Horizontal: 1MHz/Div Vertical: 1dB/Div Vertical 2: 200nS/Div