



**Data Sheet**

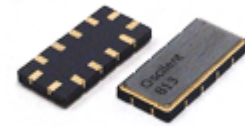


Product Category: IF SAW Filter

Part Number	Package	Application	Last Modified
813-IF70.0M-BB	13.3 x 6.5 SMD	IF SAW Filter	Jan. 01, 2007

TYPE :  
70.0MHz IF SAW Filter

PART NUMBER :  
**813-IF70.0M-BB**



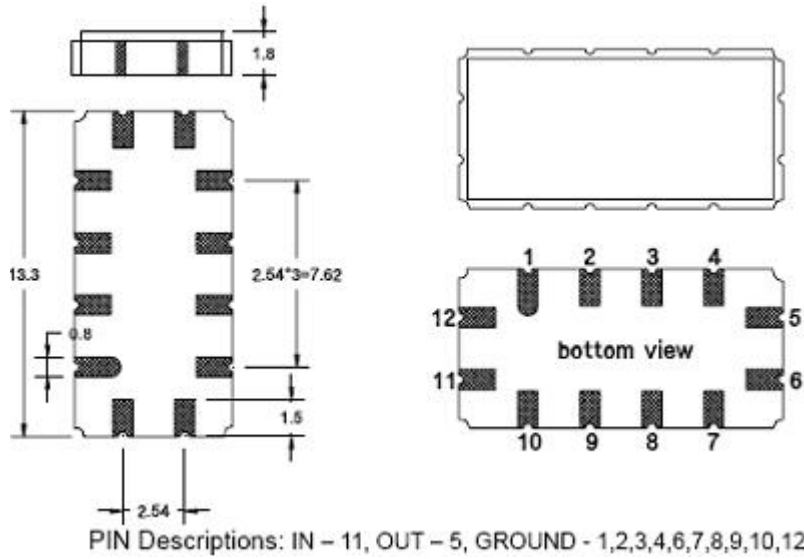
**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

PARAMETERS	Minimum	Typical	Maximum	Units
Center Frequency (Fo)	69.95	70.00	70.05	MHz
Insertion Loss at Fo	-	23.5	25.0	dB
Source Impedance (single ended)*	-	50	-	ohm
Load Impedance (single ended)*	-	50	-	ohm
Temperature Coefficient	-	-20	-	ppm/C
Amplitude Ripple within fo +/-4.35MHz	-	0.8	1.0	dBp-p
1dB Bandwidth	9.05	9.15	-	MHz
3dB Bandwidth	9.35	9.42	-	MHz
40dB Bandwidth	-	10.70	10.80	MHz
Relative Attenuation	-			
from 10 to 64.5 MHz	40	43	-	dB
from 75.5 to 140 MHz	40	43	-	dB
Absolute Delay at Fo	-	1.64	-	us
IN/OUT Return Loss at Fo	-	-	-	dB
Group Delay Variation/ fo +/-4.35MHz	-	65	120	ns

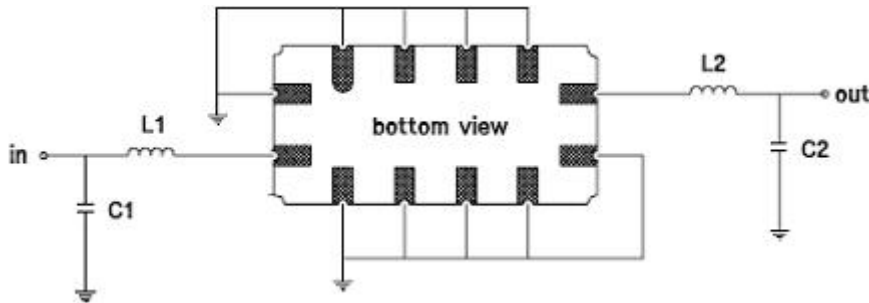
\*With Matching Network (Ref. Testing Environment Circuit as Shown Below).

Those impedances could be modified with different impedance values and/or structures, if necessary

**PACKAGE OUTLINE (mm)**



**TEST CIRCUIT**

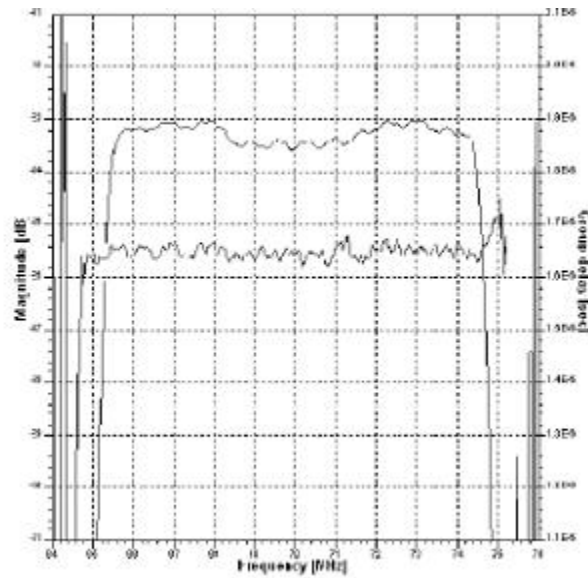
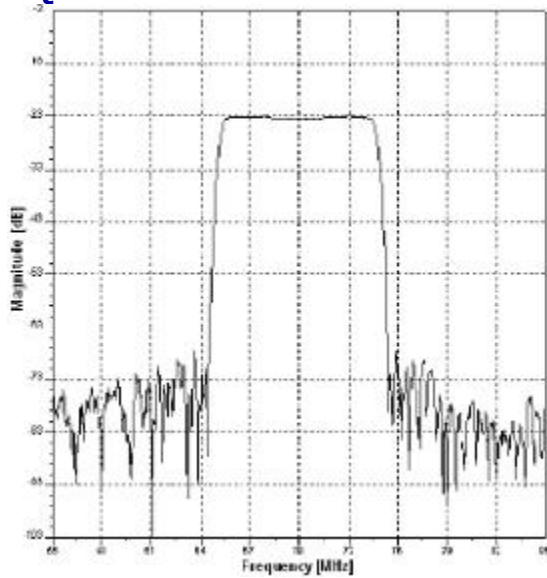


TEST FIXTURE AND VALUES/SOURCE AND LOAD IMPEDANCE 50 ohm

INPUT: L1: 158.2 nH Q>40; ; C1: 47 pF

OUTPUT: L2: 276 nH Q>40; C2: 56 pF

**FREQUENCY RESPONSE**



[Crystal Oscillators](#) | [Quartz Crystal](#) | [TCXO](#) | [VCXO](#) | [IF SAW Filter](#) | [RF SAW Filter](#) | [Ceramic Resonator](#)  
[Crystal Filter](#) | [Ceramic Filter](#) | [SAW Filter / SAW Devices](#) | [Site Map](#)