



**Data Sheet**



Product Category: IF SAW Filter

Part Number  
820-IF70.0M-D

Package  
20.2 x 12.6 Thru Hole

Application  
Base Station & Repeater

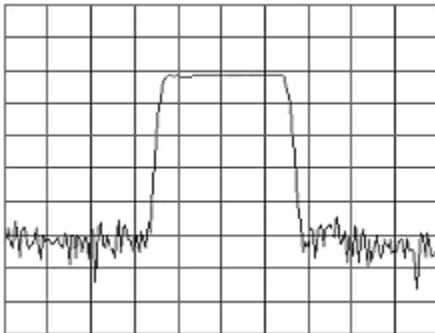
Last Modified  
May 02 2003

**TYPE :**

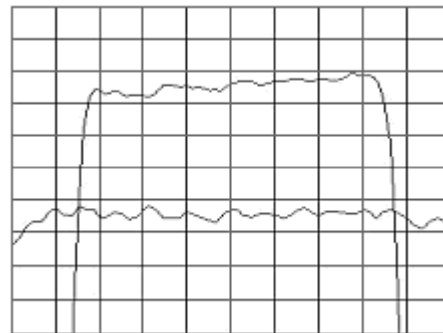
70.0 MHz Bandpass Filter  
5.5 MHz Bandwidth

**PART NUMBER :**

**820-IF70.0M-D**



Horizontal : 2.0 MHz/Div  
Vertical : 10 dB/Div



Horizontal : 0.8 MHz/Div  
Vertical : 1 dB/Div  
Vertical : 100 ns/Div

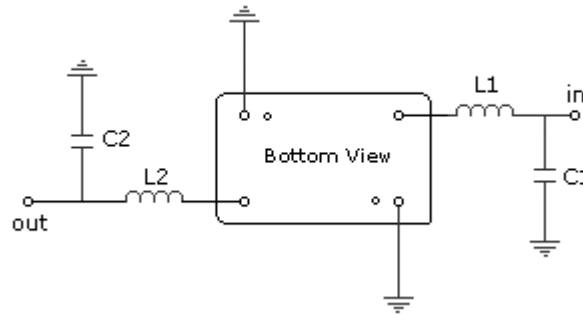
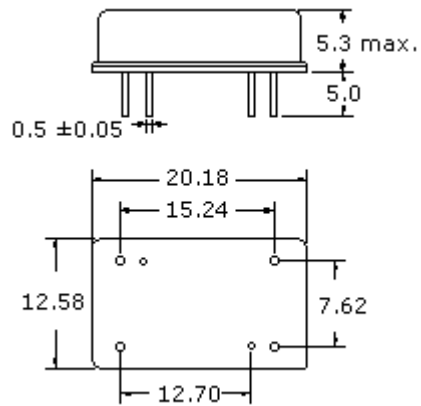
**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

| PARAMETERS                   | Minimum | Typical | Maximum | Units |
|------------------------------|---------|---------|---------|-------|
| <b>Center Frequency</b>      | 69.94   | 70.00   | 70.06   | MHz   |
| <b>Insertion Loss</b>        | -       | 20.5    | 23.0    | dB    |
| <b>1dB Bandwidth</b>         | 5.3     | 5.5     | -       | MHz   |
| <b>3dB Bandwidth</b>         | 5.5     | 5.7     | -       | MHz   |
| <b>40dB Bandwidth</b>        | -       | 6.6     | 6.9     | MHz   |
| <b>Passband Ripple</b>       | -       | 0.9     | 1.2     | dB    |
| <b>Group Delay Variation</b> | -       | 150     | 200     | nsec  |
| <b>Absolute Delay</b>        | -       | 2.38    | -       | µsec  |
| <b>Ultimate Rejection</b>    | 50      | 55      | -       | dB    |
| <b>Substrate Material</b>    | -       | 112 LT  | -       | -     |
| <b>Ambient Temperature</b>   | -       | 25      | -       | °C    |

\* Custom SAW IF Filters available. Contact Oscilent for assistance.

**PACKAGE OUTLINE** (mm)

**TEST FIXTURE**



L1 = 82nH                      C1 = 130pF

L2 = (120+80)nH            C2 = 91pF

Source/Load Impedance = 50 ohms

\* PKG Ground can be used for better spurious levels

**Oscilent Corporation** - CALL **949.252.0522**

**Part No.:** 820-IF70.0M-D

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