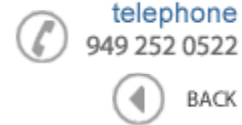


**Data Sheet**

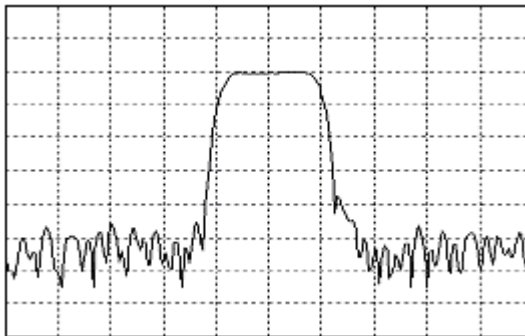
Product Category: IF SAW Filter

|                |              |                                       |               |
|----------------|--------------|---------------------------------------|---------------|
| Part Number    | Package      | Application                           | Last Modified |
| 819-IF190.0M-B | 19 x 6.5 SMD | Base Station, Repeater, HDR, IMT-2000 | May 22 2003   |

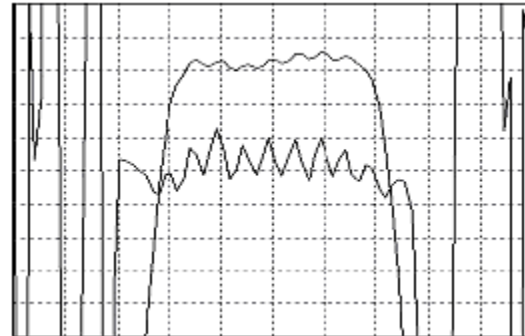
**TYPE :**

190.0 MHz Bandpass Filter

1.10 MHz Bandwidth

**PART NUMBER :****819-IF190.0M-B**

Horizontal : 1.0 MHz/Div  
Vertical : 10 dB/Div



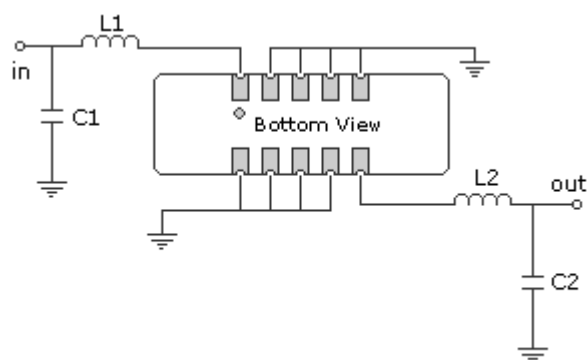
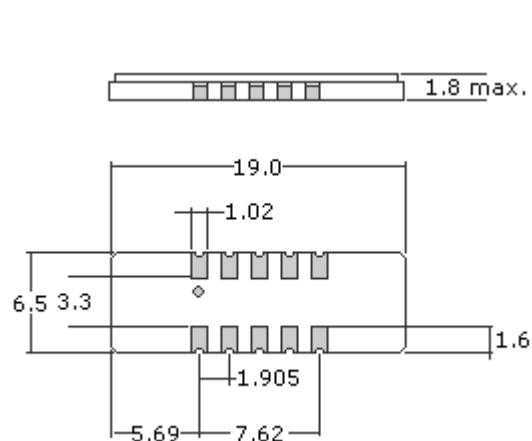
Horizontal : 0.4 MHz/Div  
Vertical : 1 dB/Div  
Vertical : 100 ns/Div

**OPERATING CONDITIONS / ELECTRICAL CHARACTERISTICS**

| PARAMETERS                 | Minimum | Typical | Maximum | Units |
|----------------------------|---------|---------|---------|-------|
| Center Frequency           | 189.95  | 190.00  | 190.05  | MHz   |
| Insertion Loss             | -       | 17.5    | 20.0    | dB    |
| 1dB Bandwidth              | 1.40    | 1.50    | -       | MHz   |
| 3dB Bandwidth              | 1.60    | 1.70    | -       | MHz   |
| 40dB Bandwidth             | -       | 2.50    | 2.70    | MHz   |
| Passband Ripple (1.23 MHz) | -       | 0.45    | 0.60    | dB    |
| Group Delay Variation      | -       | 180     | 220     | nsec  |
| Absolute Delay             | -       | 2.54    | -       | µsec  |
| Ultimate Rejection         | 40      | 45      | -       | dB    |
| Substrate Material         | -       | Quartz  | -       | -     |
| Ambient Temperature        | -       | 25      | -       | °C    |
| Phase Linearity (1.23 MHz) | -       | 3.4     | 7.0     | deg   |

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

**PACKAGE OUTLINE** (mm)**TEST FIXTURE**



L1 = 56nH                      L2 = 47nH

C1 = 24pF                      C2 = 27pF

Source/Load Impedance = 50 ohms

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

17962 Sky Park Circle, Building D, Irvine, CA 92614, USA

Fax: 949.252.0599, E-Mail: [Sales@Oscilent.com](mailto:Sales@Oscilent.com)

**Part No.:** **819-IF190.0M-B**

Crystal Oscillators | Quartz Crystal | TCXO | VCXO | IF SAW Filter | RF SAW Filter | Ceramic Resonator  
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