

# LOW PASS - COAXIAL

## FILTERS

0.25-12.4 GHz

## SERIES F100

### GENERAL INFORMATION:

The F100 series low pass filters offer maximum stopband rejection with a minimum passband loss and VSWR. Special Filters with fewer or more distributed sections can be readily provided to exact specified requirements. Maximum VSWR & insertion loss shown include ripple. Filters can be provided with very low VSWR at specific frequencies or over narrow band widths. Consult with the factory for information on a wide variety of custom designs for specialized applications.

### GENERAL SPECIFICATIONS:

|                           |                                                     |
|---------------------------|-----------------------------------------------------|
| <b>Minimum Rejection:</b> | 25 dB @ 1.25 fc<br>50 dB @ 1.5 fc<br>60 dB @ 1.6 fc |
| <b>Impedance:</b>         | 50 ohms                                             |
| <b>Connectors:</b>        | Male and Female (Bi-Directional)                    |
| <b>Specify Type:</b>      | SMA, TNC, BNC, or Type N                            |
| <b>Temperature Range:</b> | -55 to +125°C                                       |
| <b>Power:</b>             | 100 WCW, 5 KW Peak                                  |

### F100 SERIES CHARACTERISTICS (For SMA Connectors)

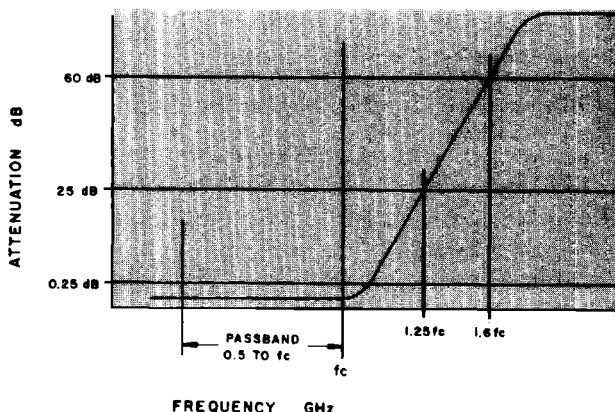
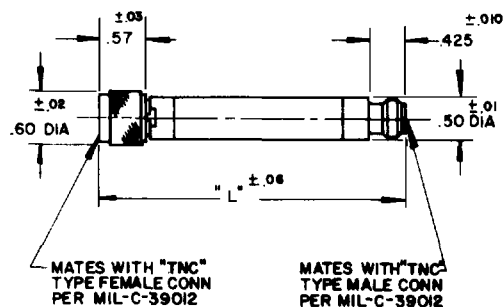
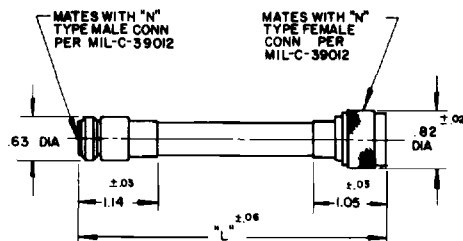
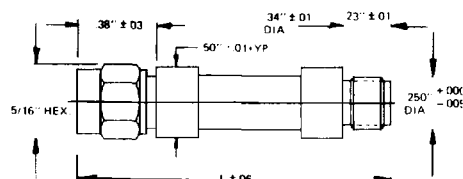
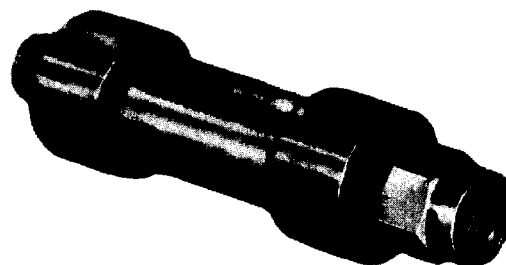
| Pass-band (GHz) | "L" (IN.) | Model No.* | Max. VSWR** | Max. Ins. Loss (dB) | 60 dB Min. (GHz) |
|-----------------|-----------|------------|-------------|---------------------|------------------|
| 0.25-0.50       | 12.51     | F105       | 1.35        | 0.25                | .88-3.0          |
| 0.38-0.75       | 6.59      | F1075      | 1.35        | 0.25                | 1.2-4.0          |
| 0.50-1.00       | 6.62      | F110       | 1.35        | 0.25                | 1.6-6.0          |
| 0.63-1.25       | 5.88      | F1125      | 1.35        | 0.25                | 2.0-8.0          |
| 0.75-1.50       | 5.01      | F115       | 1.35        | 0.25                | 2.4-8.0          |
| 0.88-1.75       | 4.40      | F1175      | 1.35        | 0.25                | 2.8-8.0          |
| 1.00-2.00       | 3.95      | F120       | 1.35        | 0.25                | 3.2-8.0          |
| 1.50-3.00       | 3.94      | F130       | 1.35        | 0.25                | 4.8-10.0         |
| 2.00-4.00       | 3.15      | F140       | 1.35        | 0.25                | 6.4-10.0         |
| 2.50-5.00       | 2.67      | F150       | 1.35        | 0.25                | 8.0              |
| 3.00-6.00       | 2.35      | F160       | 1.35        | 0.25                | 9.6              |
| 3.50-7.00       | 2.12      | F170       | 1.35        | 0.25                | 11.2             |
| 4.00-8.00       | 1.95      | F180       | 1.35        | 0.25                | 12.8             |
| 4.50-9.00       | 1.82      | F190       | 1.40        | 0.30                | 14.4             |
| DC-12.4         | 3.57      | F1240**    | 1.50        | 0.4                 | 18               |

Note: Lengths shown are for SMA.

\*\*Type SMA or N only.

\*Add a letter suffix to the model number to specify the connector.

("M" = SMA, "N" = Type N, "T" = TNC and "B" = BNC). Example: F105M.



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