



Tomorrow's Telemetry Today!

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G-7617 & G-7618 SINGLE AND DUAL LOW PASS FILTER INSTRUCTION INFORMATION

- **Input and Output Impedance at 600 ohms**
- **Out of Band Insertion Loss at 68 db**
- **Midband Insertion Loss 2 db**
- **Signal Levels at -6 dbm maximum**



GENERAL DESCRIPTION

The Model G-7618 Dual Pass Filter consists of two five coil low pass filters mounted on one pc board. The G-7617 Low Pas Filter is mounted on the same pc board and consists of one five coil filter. These filters are used in speech plus tone applications in which the tones are above the voice signals. The use of a low pass filter at sending end as shown in the simplified block diagram prevents the voice channel from whistling out the tone channels. The use of a G-7617 Low Pass Filter at receiving end prevents the data tones from being heard in the voice channel. The nominal 70 db. attenuation of these filters insures that tone cannot be heard in telephone handsets.

Line transformers and clipper, attenuation pads and front panel jacks are available as additional cost options. The front panel jacks are wired so that the tip of the jack plug picks up the filter and rings picks up the telephone line. The shield makes contact to the filter common.

Amplifiers are usually requires in speech plus tone systems over telephone lines as the Bell System tariffs require that a type 3000 line be assigned to this application. This type of line has a 16 db. loss in it.

STANDARD FILTERS

FIRST NOTCH-Hz	3 db. BANDWIDTH	FIRST CCITT 60 Hz. CHANNEL
2070	1800	2100
2310	2000	2340
2550	2200	2580
2790	2450	2820
3030	2700	3060
3390	3000	2420
3870	3400	3900

SPECIFICATIONS

Cutoff Frequencies: Order filters by 3 db. bandwidth from table above, other bandwidths are available to 20 kHz. as required.

Input and output Impedance: 600 ohms.

Out of Band Insertion Loss: +/- 3 db. to 1.0 mHz

Midband Insertion Loss: 2 db., 1000Hz.

Signal Levels: +6 dbm. maximum.

Size: Requires 1.50" of space in a model G-6804 Card Rack, 4.50" high X 9.37" long.

For more information about Da-Tel Research Company and our products, contact:

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**Equipment and/or components purchased through Da-Tel but manufactured by other companies are covered under the warranties of those manufacturers.*

NOTICE

As of the date of this printing, the specifications for the G-7616 in this Instruction Information sheet apply to all G-7617, except as indicated. Because all Da-Tel products are continually being refined and improved, these specifications are subject to change without notice.