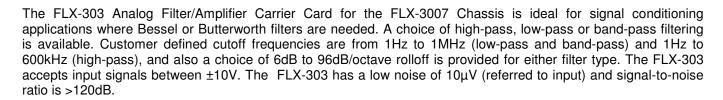


MODEL FLX-303

3-Channel Plug-In Filter/Amplifier Carrier Card

- 3 Channels per Card
- Fixed Cutoff Frequency: Customer defined 1Hz to 1MHz, Low-Pass 1Hz to 600kHz, High-Pass
- Input Gain: Customer defined 1 to 100
- Plugs Into FLX-3007 Chassis





The differential input amplifier and output amplifier in each channel allow for resistor programmable gain from 1 to 100, for a total gain of 10,000 if needed. Maximum gain available is determined by the cutoff frequency and bandwidth of the filter selected.

Filter and amplifier characteristics are customer-defined in each channel, and may be changed at a later time by replacing the filter/amplifier plug-in 3F Filter/Amplifier Module for each channel.

The FLX-303 is one of many plug-in cards available for the FLX-3007, 7-slot Chassis System.

SPECIFICATIONS

Specifications apply at 25°C, ±5°C.

Number of Channels: 3, single ended.

Input Amplifier Characteristics

Maximum Input: ±10V peak.

Coupling: DC, low-pass; AC, high-pass and band-pass.

Input Impedance: 150k ohm or greater.

Gain (customer defined): Any specified value 1-100, 3%.

Connectors: BNC.

Filter Characteristics

Input Type (customer defined): Butterworth or Bessel.

Function: Low-pass, high-pass or band-pass

Number of Poles (customer defined): 1 to 8 and 16.

Cutoff Frequency (customer defined): Any specified fixed between 1Hz to 1MHz, low-pass and band-pass; 1Hz to 600kHz, high-pass. Maximum frequency range is determined by max. gain selected, consult factory.

Passband Flatness: 10Hz to 200kHz, 0.2dB.





Output Amplifier Characteristics

Maximum Output Voltage: ±10Vpeak.

Impedance: 50 ohms.

Gain (customer defined): Any specified value 1-100, 3%.

Maximum Common Mode Voltage: (diff signal x gain) + $(Vcm) < \pm 10V$.

Output DC Offset Voltage: <1mV.

Noise (input shorted): 10μVrms typical, 20μVrms max referred to input.

Noise Spectral Density (100Hz to 300kHz): 40nV/√Hz typical, 100nV/√Hz max.

Signal-to-Noise (7Vrms): >100dB.

Connectors: BNC.

General

Power Consumption: -15V, 166ma; +15V, 225mA.

Operating Temperature: 0°C to +45°C. **Storage Temperature:** -25°C to +70°C.

Dimensions: 0.93" wide, 5" high, 10.5" deep.

Weight: 2 lbs.

Accessories

CAB-018: Cable, BNC.



3F Series Modules: Plug-In Filter/Amplifier Modules.



Other FLX-3007 Chassis

The FLX-3007 Chassis has a maximum of 6-slots. Other family of FLX cards available are:

FLX-ICP4: 4 Channel Differential Piezoelectric Sensor Filter/Amplifier Carrier Card.

FLX-302: 2 Channel Differential Filter Amplifier Carrier Card with BNC Connectors.

FLX-306: 6 Channel Differential/Single-Ended Filter/Amplifier Carrier Card with Screw-Terminal Connectors.

FLX-700: High Gain Preamplifier Carrier Card.

Specifications subject to change without notice.



