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FEMTO AMPLIFIER SELECTION GUIDE

What Kind of Application Do You Have?

Amplification of Small Electrical Signals

Phase Sensitive and Frequency Selective Measurement of Small Signals Potentially Buried in Noise

What Will You Connect to the Amplifier Input?

A High Impedance or Current Source e.g. Photodiode, Photomultiplier (PMT), Charge or Ionization Detector, Faraday Cup, Capacitive Pickup, Scanning Tunneling Microscope Tip (STM), Multi Channel Plate (MCP)

A Low Impedance or Voltage Source e.g. Resistive Element, Coil, Thermopile, Fast Photomultiplier (PMT) or Multi Channel Plate (MCP) with 50 Ohm Termination, High Bandwidth Source

Current (Transimpedance) Amplifier

Voltage Amplifier

Lock-In Amplifier

Which Maximum Bandwidth Do You Require?

Which Maximum Bandwidth Do You Require?

Up to 500 kHz

Up to 200 MHz

Up to 2 GHz

Up to 500 MHz

Up to 100 kHz

Series LCA
Fixed Gain up to 10^{13} V/A, Ultra Low Noise down to 0.2 fA/√Hz

DLPCA-200
Variable Gain from 10^3 to 10^{11} V/A, Signal Filters, Remote Interface

Series HCA
Fixed Gain up to 10^8 V/A, Low Noise down to 270 fA/√Hz

DHPCA-100
Variable Gain from 10^2 to 10^8 V/A, Signal Filters, Remote Interface

Series HSA-X
Fixed Gain up to 40 dB (5,000 V/A), Ultra Compact Package

Series HSA-Y
Fixed Gain up to 60 dB (50,000 V/A), 2 Signal Outputs, DC Monitor

Series DUPVA
Variable Gain up to 70 dB, Exceptional Low Noise and Flat Frequency Response

Series HVA
Fixed or Variable Gain up to 60 dB, Compact Package

Series DHPVA
Variable Gain up to 60 dB, Very Low Temperature Drift and Flat Frequency Response, Remote Interface

Series HLVA
Logarithmic Amplifier with 80 dB Dynamic Range, DC Coupled

Series DLPVA
Variable Gain up to 100 dB, Input Impedance up to 1 TΩ, Very Low Noise down to 0.4 nV/√Hz

Series LIA-MV-150
Working Frequency up to 45 kHz, Ultra Compact Package

Series LIA-BV(D)-150
Working Frequency up to 120 kHz, Low Cost 19" Board, Ideal for Multi Channel Applications

Series LIA-MV(D)-200
Up to 120 kHz, Module Housing, Remote Control, Signal Filters, Ideal for OEM Applications