Pre-Amplifier and Its Input Circuit

D-Zero Dual FET PreAmp

Input Coupling Network  PreAmp FET Input Stage  PreAmp Output "Driver" Stage

Wire Bias Voltage

20 Meg. 2 pFd

Detector Wire Signal

100 Meg. Ohm 10 nFd 1600V

Signal Amplitude at the Output of the FET Input Stage is 0.5 mV per Femto Coulomb.

Differential Signal Amplitude at the "Driver" Stage Output is 3.0 mV per Femto Coulomb with no Load.

2 pFd x 20 Meg = 40 usec = 3979 Hz

15 nFd x 3.3k = 50 usec = 3215 Hz

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