



The **high-pass** filter time constant τ_{RC} associated with the pressure mic preamp's $C = 1 \mu F$ input coupling capacitor (*n.b.* which also blocks the $\sim +1.5 V_{DC}$ quiescent DC voltage output from the mic's internal FET) and $R = 1 M\Omega$ is $\tau_{RC} \equiv RC = 1.0 \text{ sec}$, corresponding to a -3 dB corner frequency of $f_{-3dB} \equiv 1/(2\pi \cdot \tau_{RC}) = 1/(2\pi RC) = 1/2\pi \approx 0.16 \text{ Hz}$. The frequency and phase response of this pressure mic's preamp circuit is shown in the figure below:

