

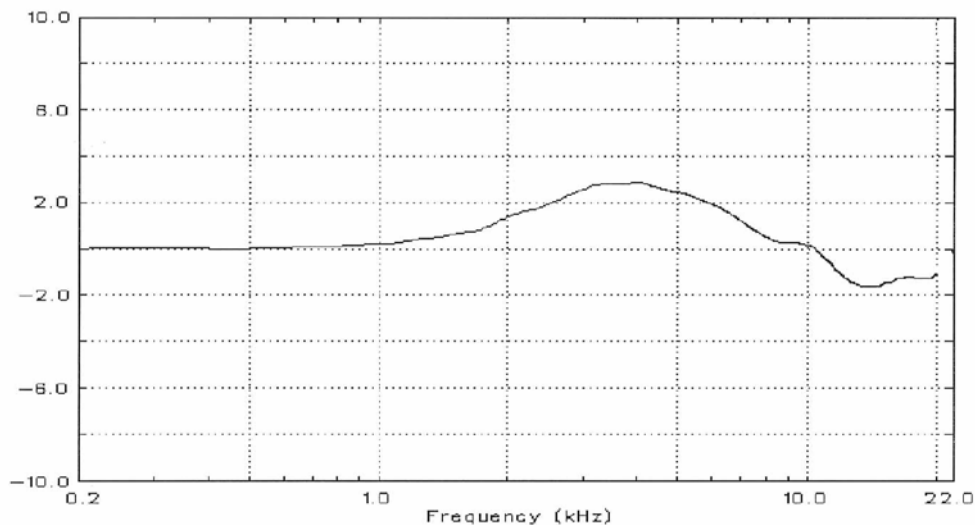


## SPB40A Spherical Baffle

The SPB40A is intended for use only with the Josephson C617SET microphone equipped with the Microtech Gefell MK221 capsule. Using the baffle results in an on-axis boost from 1.5 to 8 kHz, with a maximum of about 2.5 dB at 3.5 kHz, and a smooth variation in high frequency rolloff for sounds arriving off-axis. There is some attenuation of higher frequencies due to the scattering of incident sound, which becomes more pronounced off-axis.

The spacing between the microphone and the surface of the sphere is critical, and is determined by the use of a military-specification o-ring. If it needs to be replaced it can be obtained from Josephson or other sources, it is a type AS3578-211 in Buna-N rubber.

When installing the sphere on the microphone, gently twist the sphere clockwise as you press it on to the microphone. It will come to a firm stop with the edge of the sphere just below the second row of holes in the capsule grille. When removing the sphere, ***use the same clockwise motion*** while pulling the sphere off the microphone. This will prevent unscrewing the capsule grille from the capsule.



Frequency response of C617SET with SPB40A referenced to same mic without baffle