

APPLICATION DATA

DYNAMIC RESPONSE FOR MICROPHONE SERIES TRANSDUCERS

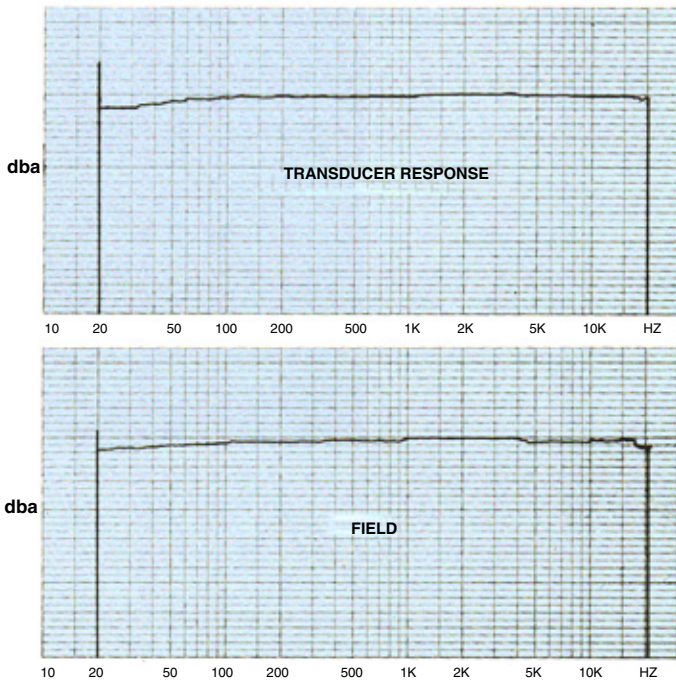
Figure 1 is obtained by subjecting an XCQ-062-25 transducer fitted with a screen assembly, to a constant sound pressure field of 140 dB acoustic over a frequency range of 20 Hz to 20 kHz. The sound pressure field and the resultant dynamic response curve indicate that the transducer's response is flat.

The curves shown in Figure 2 were obtained using an air jet which produced a white noise spectrum. The transducer both with and without a screen assembly was subjected to a narrow band analysis which established that up to 30° of attack there was no noticeable effects.

The screen assembly can be supplied either permanently mounted on the transducer or separately for applications where it is desirable to have a removable screen.

Screen assemblies for standard Kulite pressure sensors and probes may be obtained at a small additional charge. For additional details, contact Kulite Semiconductor Products, Inc. - Applications Engineering - Tel: 201 461-0900, Fax 201 461-0990, Email info@kulite.com.

FIGURE 1



Note: All ordinate divisions are equivalent to .5 dba

FIGURE 2

