

Circuit Sensitivity at 1013 mbar, 23°C and 100% RH:  
 9.2 dB re. 1 V per Pa or 3.47 mV per Pa

**Circuit Correction Factor:**

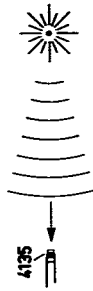
$K_o^*) = +23.2$  dB

**Storage Capacitance:**

$C = 6.7$  pF

Storage Resistance tested at 52% relative humidity  
 514  $\Omega$

**Frequency Response Characteristics:**  
 The upper curve is the open circuit free-field characteristic, valid for the Microphone Cartridge without the mounting grid. Sound waves perpendicular to diaphragm (see Fig.).  
 The lower curve is the open circuit pressure response recorded with electrostatic actuator.  
 The red curve is the open circuit random incidence response. Protection grid included.



Extract the gain of the preamplifier (see back of this card) from  $K_o$  to get the actual correction factor  $K$ . (See instruction manual for the use of  $K$ ).

$$1 \text{ N/m}^2 = 10 \text{ dynes/cm}^2 = 10 \mu\text{bar}$$

**Conditions of Tests:**

Frequency: 250 Hz  
 Polarization voltage: 200 V 1015  
 Barometric Pressure: 55 mbar  
 Relative Humidity: 55 %  
 Temperature: 22 °C

Date: 27-10-80 Signature: *SHR*

**Summarized Specifications**

Outside Diameter: 0.25 inch (6.35 mm) without protecting grid

**Grid Thread (coupler mounting):**

0.25 inch (6.35 mm), 60 UNS2

**Resonance Frequency:** approx. 100 kHz

**Equivalent Air Volume at 1 atm:**

Less than 0.0006 cm<sup>3</sup>

**Temperature Coefficient between -50 and +60°C:**

Less than  $\pm 0.01$  dB/°C at 250 Hz

**Ambient Pressure Coefficient:** Influence on sensitivity less than -0.1 dB for +10% pressure change at 250 Hz

**Relative Humidity:** Influence less than 0.1 dB, in the absence of condensation

**Limiting Sound Pressure:** 185 dB (not tested at higher levels)

Measuring Object:

Sign:

Date:

Potentiometer:

Zero Level:

D A B C Lin.

Rectifier:

Lower Lim. Freq.:

Hz.

Writing Speed:

mm/sec.

Paper Speed:

mm/sec.