

EFFECTS OF VARIATION OF SUPPLY VOLTAGE ON THE SENSITIVITY OF THE BT MICROPHONE

The graph on page 2 shows the effect of supply voltage (V_s) on BT microphone output over the voltage range 0.4 to 1.3 VDC. Changes in V_s from 1.3 Volts to 20.0 Volts will typically increase the 1KHz sensitivity of BT microphones by 1 dB.

The "nominal" line illustrates the performance of the "average" BT microphone coming off of our production lines. Please note, however, that variability in components and assemblies yield a range of possible sensitivity changes for each supply voltage. This chart is referenced to our standard specification of a 1.3 VDC supply voltage and indicates the possible change of output for any single BT microphone as compared to its

1.3 Volts sensitivity. As an example, changing V_s from 1.3 Volts to 0.8 Volts will typically decrease the 1KHz sensitivity by 0.6 dB. However, 99% of the product will decrease between 0.2 dB to 3.5 dB.

We guarantee, by 100% testing, that all BT microphones will exhibit no more than a 3 dB loss at 0.9 VDC compared to the 1.3 Volt output for that unit.

IMPORTANT NOTE

The graph is usable only for general application perspective and should not be used to generate specifications or limits.



1KHz SENSITIVITY CHANGE
VS.
DC SUPPLY VOLTAGE
For All BT Microphones
(Data Based on Random Sampling)

