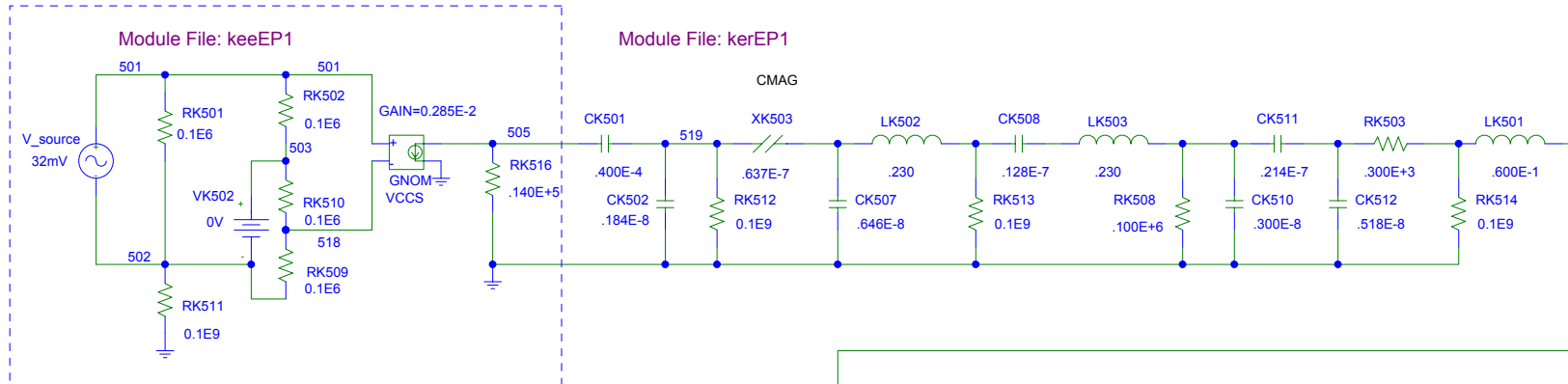




## Knowles EP Analog Standard Response

Low Power EP



\*CMAG models a capacitive impedance in series with a resistor to create a 45 degree phase angle at all frequencies. The net impedance varies as 1 over the square root of frequency.

\*CMAG is the capacitor's value at 1 kHz.  
\*Also called VRMAG, VCMAG in older models

```
.SUBCKT CMAG-X 1 2 PARAMS:CMAG = 1
R1 1 2 1E+12
G1 1 2 FREQ {(707*V(1,2)/(CMAG*6282)) =
+ (20..17.45)
+ (20000,13,45)
.ENDS
```

Tubing and coupler specified in Knowles Sheet 2.1  
[10mm x 1.0mm ID]

Add 144dB to convert output to dB SPL

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April 2007

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