

2

1

Gain and resistance values specified in module file.
GK501-4 = GK
RK501-2 = RK

PARAMETERS:

GK 3.527E-3
RK 3.496E3

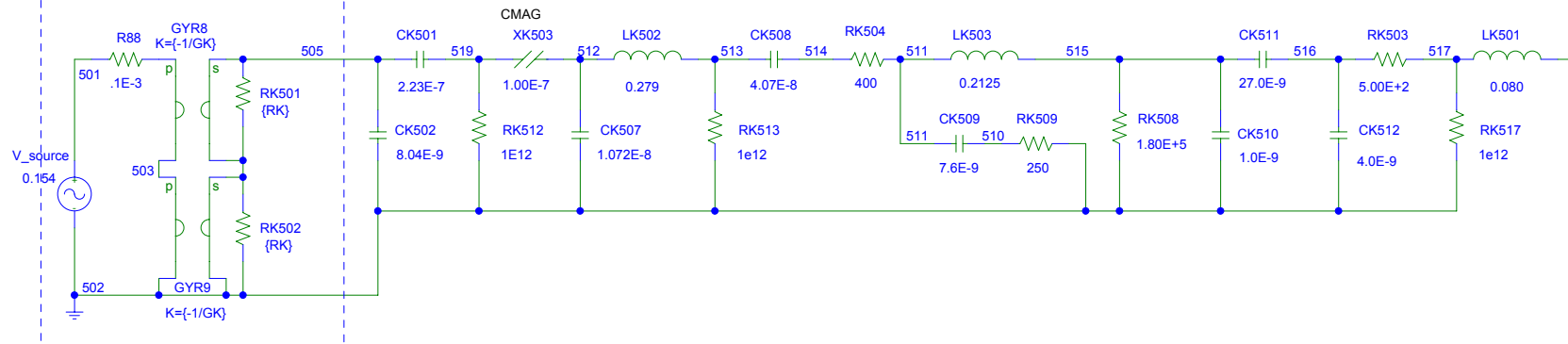
Coil model for TEC-30006, 30007
46 Ohms DCR



Reduced TEC Analog Standard Response

Module File: keeTEC1

Module File: kerTEC1



Generic coil model consists of two gyrators. Input nodes are 501 (+) and 502 (-). Node 503 is used only for models with bi-filar coils (i.e., center tap).

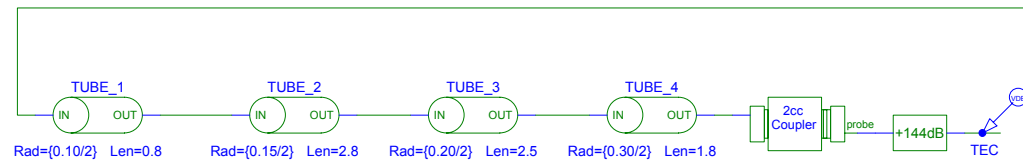
GYRATOR MODEL
Gyrator between node pairs (1,2) and (3,4) having a gyrator constant K

```
.SUBCKT GYR-X 1 2 3 4 PARAMS:K=1
R1 1 2 9E+12
R2 3 4 9E+12
R3 2 3 9E+12
G1 1 2 VALUE={V(3,4)/K}
G2 3 4 VALUE={-V(1,2)/K}
.ENDS
```

*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
```



Add 144dB to convert output to dB SPL

Tubing and coupler specified in Knowles Sheet 2.1
[8mm x 1.0mm ID] + [28mm x 1.5mm ID] + [25mm x 2.0mm ID] + [18mm x 3.0mm ID]

2

1

B

B

A

A