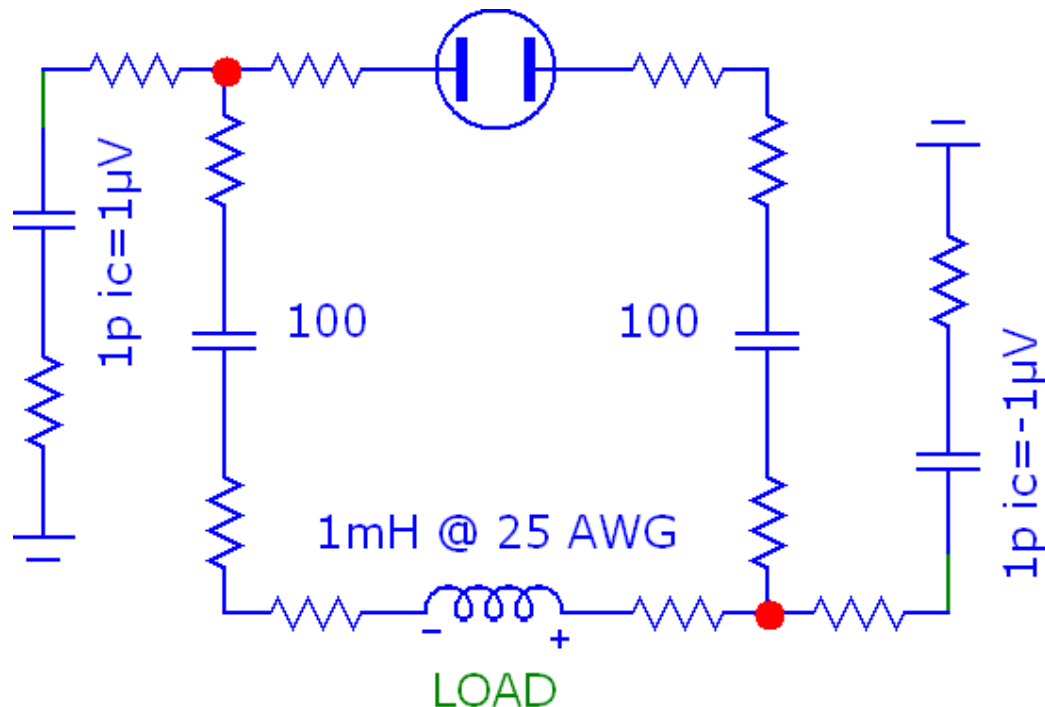


## Looking for that Perfect Circuit...!

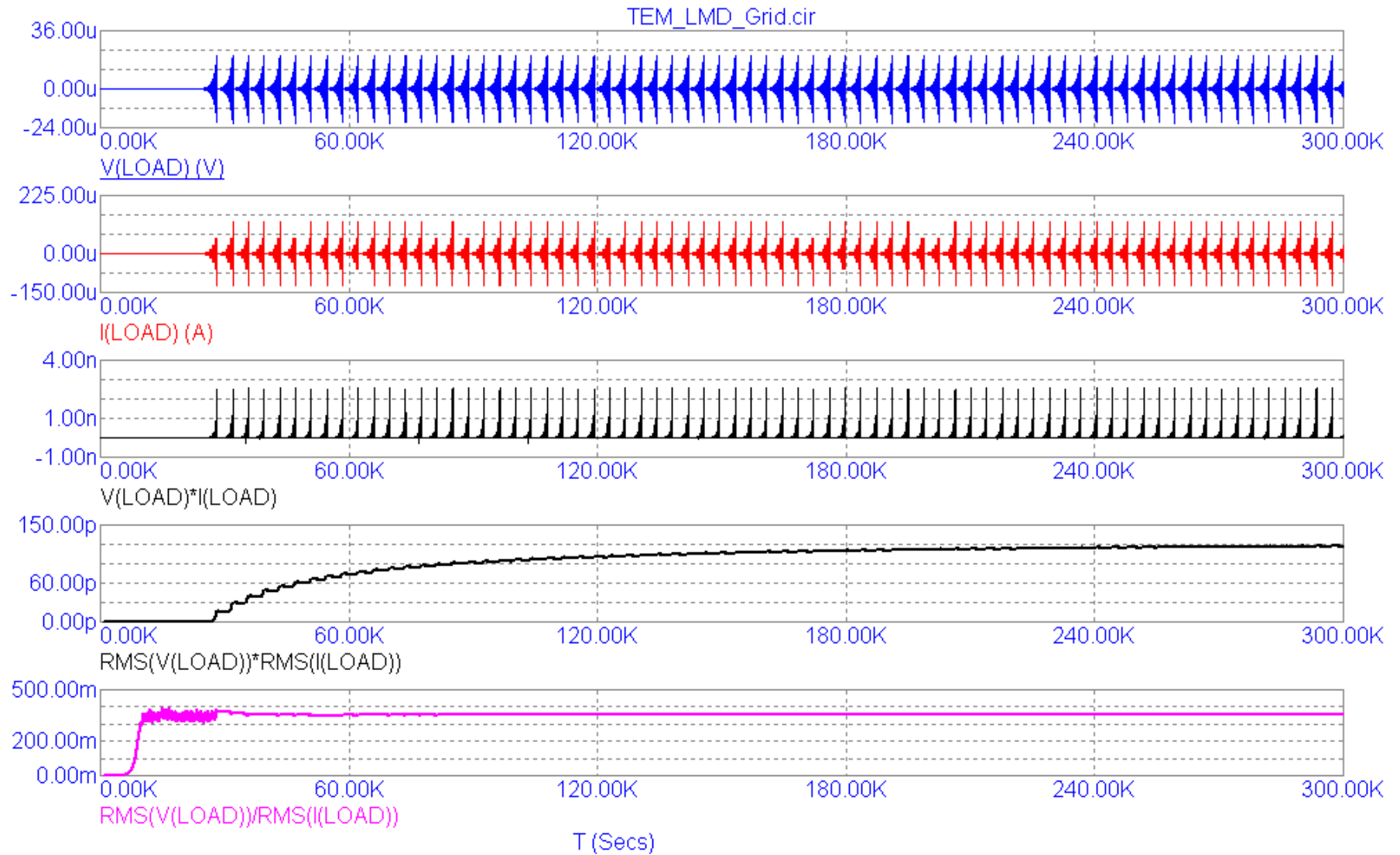
I've done so many circuits which are explosively overunity, or which are difficult – if not impossible – to build, that I thought to myself that [a circuit type](#) which I penned back in January of last year, 2021, looked promising in that it was...

1. A modular design capable of being built up with multiple clones of its basic unit-module, and all of its inductive loads are magnetically coupled together to maximize their output. It's also...
2. Practical since it is readily buildable, and...
3. Scalable to increase its output, and...
4. Produces an output of self-regulated pulses of transient surges which periodically collapse (with a consistently well-regulated periodicity) to prevent this circuit's output from reaching into infinite oblivion (which would have destroyed this circuit if left unchecked)..

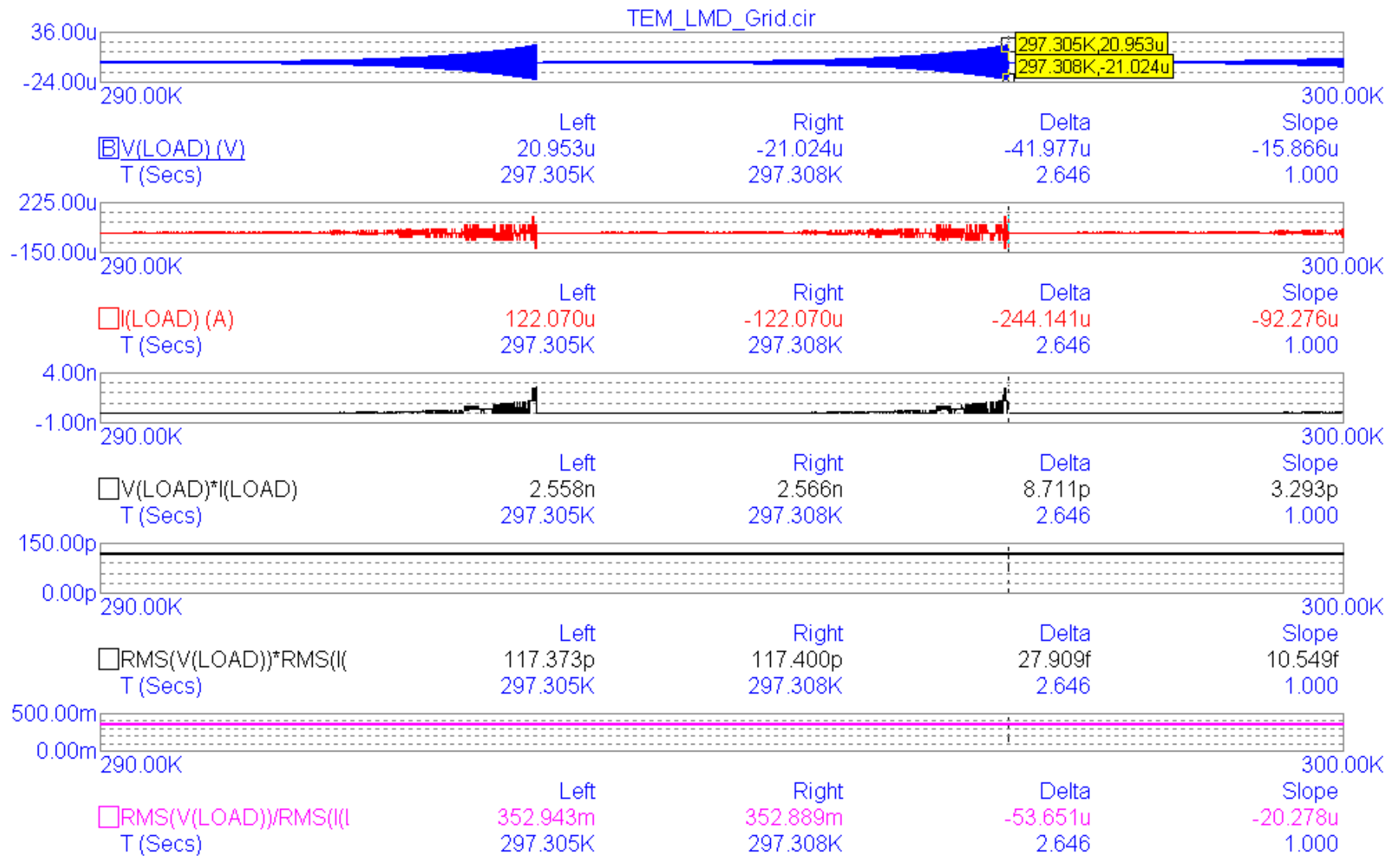


All resistors are  $1\mu$  Ohm. All capacitors have 1m Ohm of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

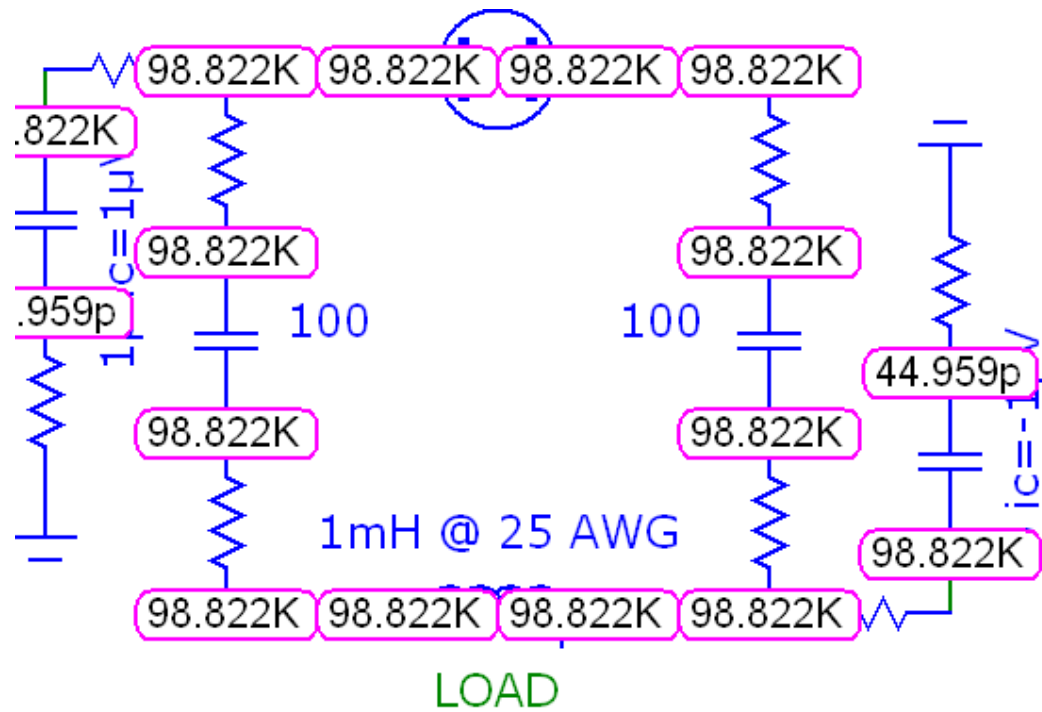
RMS plus raw voltage and current waveforms exhibiting the “classic” shape of a periodically collapsing surge...



Closeup...



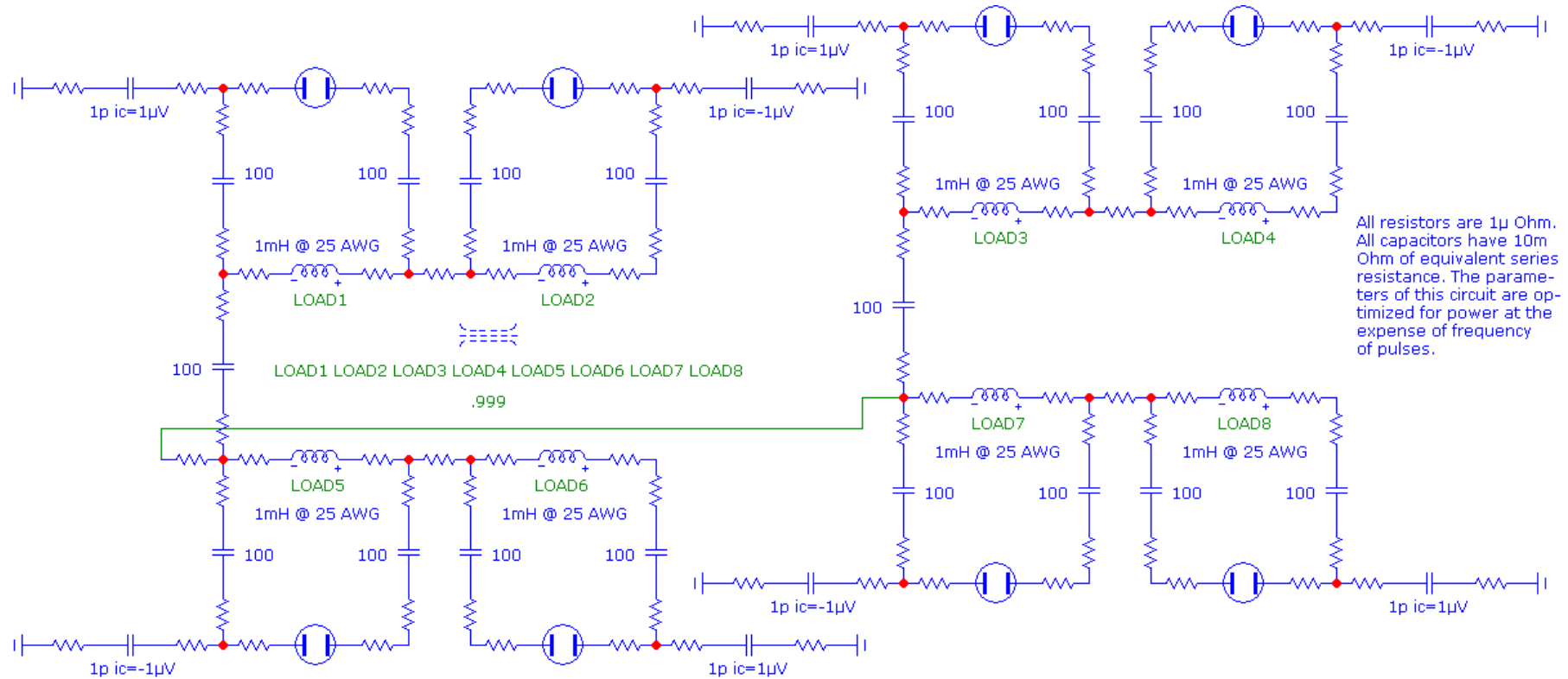
Nodal voltages after 300k seconds of simulator run-time...



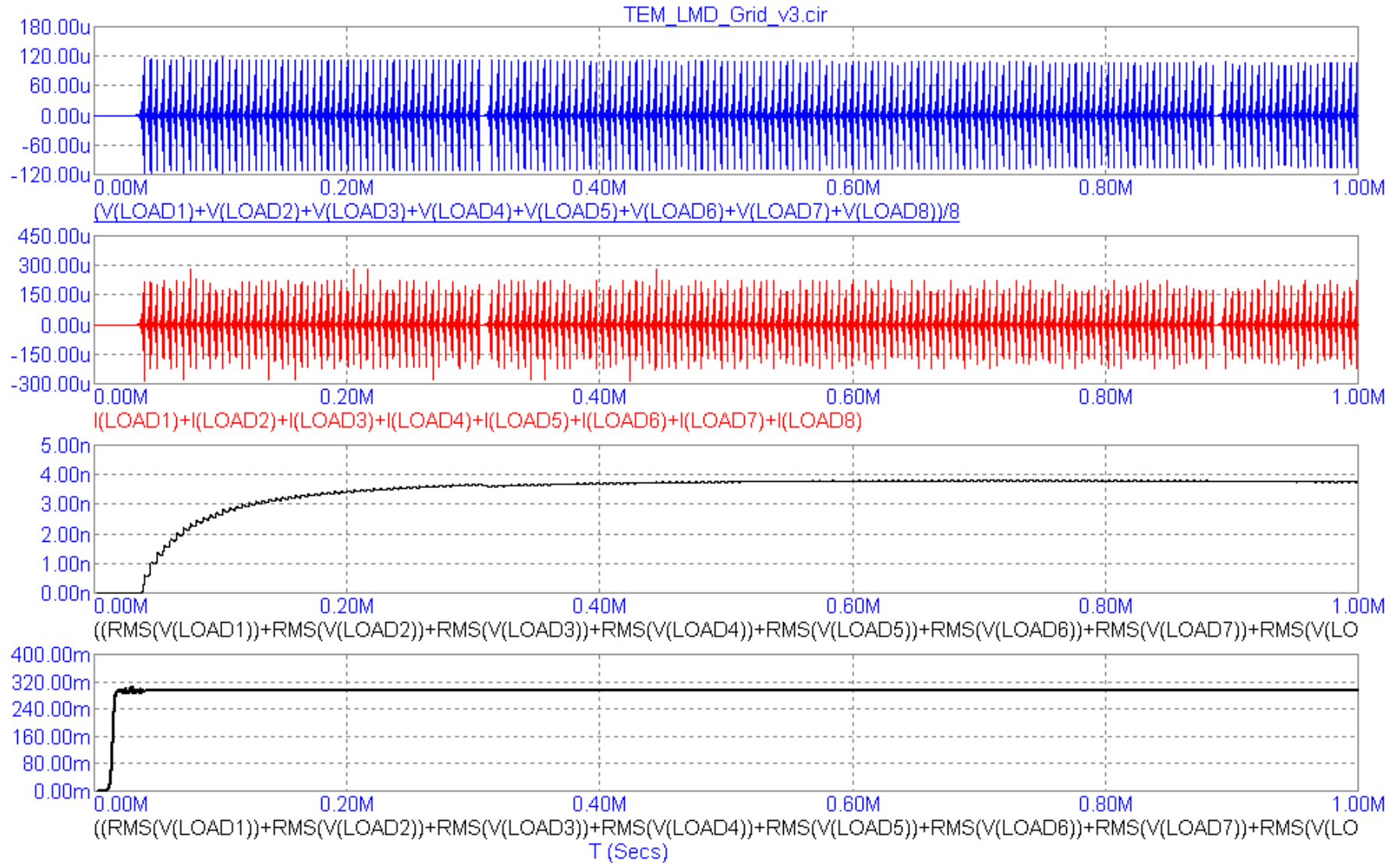
All resistors are  $1\mu$  Ohm. All capacitors have  $1m$  Ohm of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

All of this is very interesting (to me anyway) since it's so simple and (thereby) elegant in its design. How could it *not* be buildable?

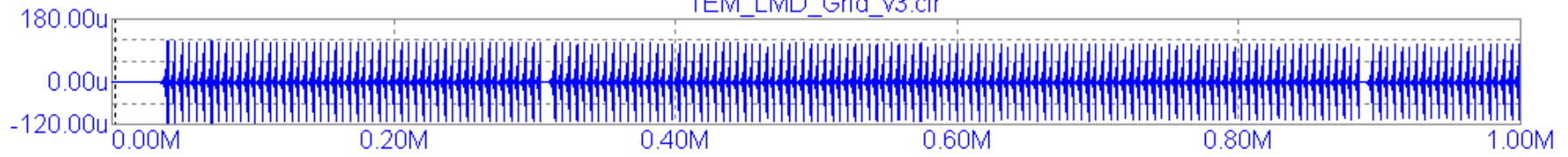
Moving on to assembling this module into a group of four and doubling them...



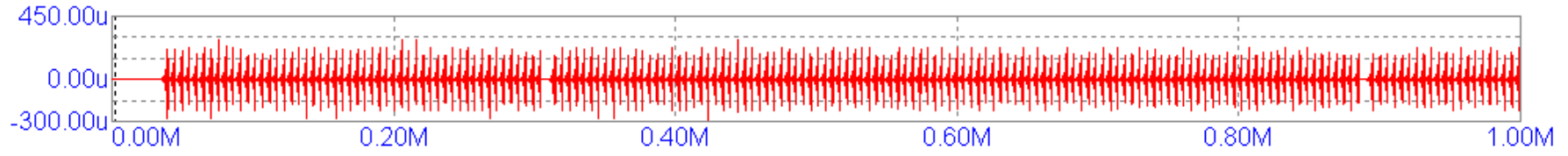
Raw and RMS outputs of all of its eight magnetically coupled inductive LOADs plus a look at the RMS impedance of its wattage after a million seconds of simulator run-time. The load voltages have been averaged among its eight coils while the current has been summed up...



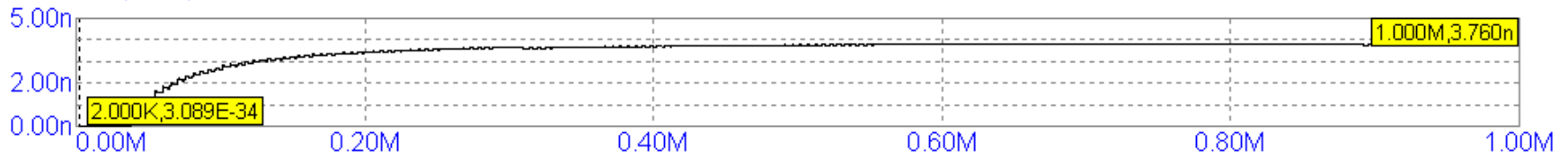
TEM\_LMD\_Grid\_v3.cir



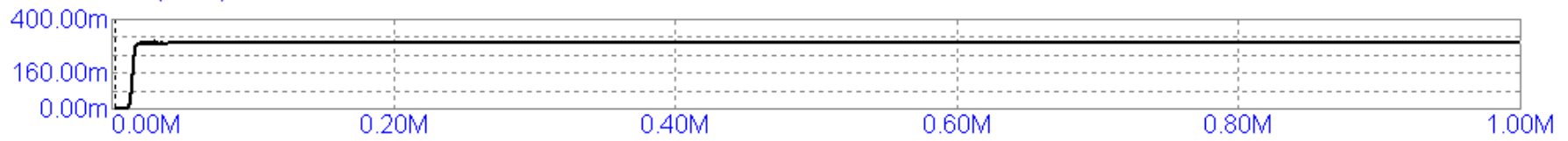
Left	Right	Delta	Slope
5.414E-20	1.314u	1.314u	1.316p
2.000K	1.000M	998.000K	1.000



Left	Right	Delta	Slope
0.429f	-1.610u	-1.610u	-1.613p
2.000K	1.000M	998.000K	1.000

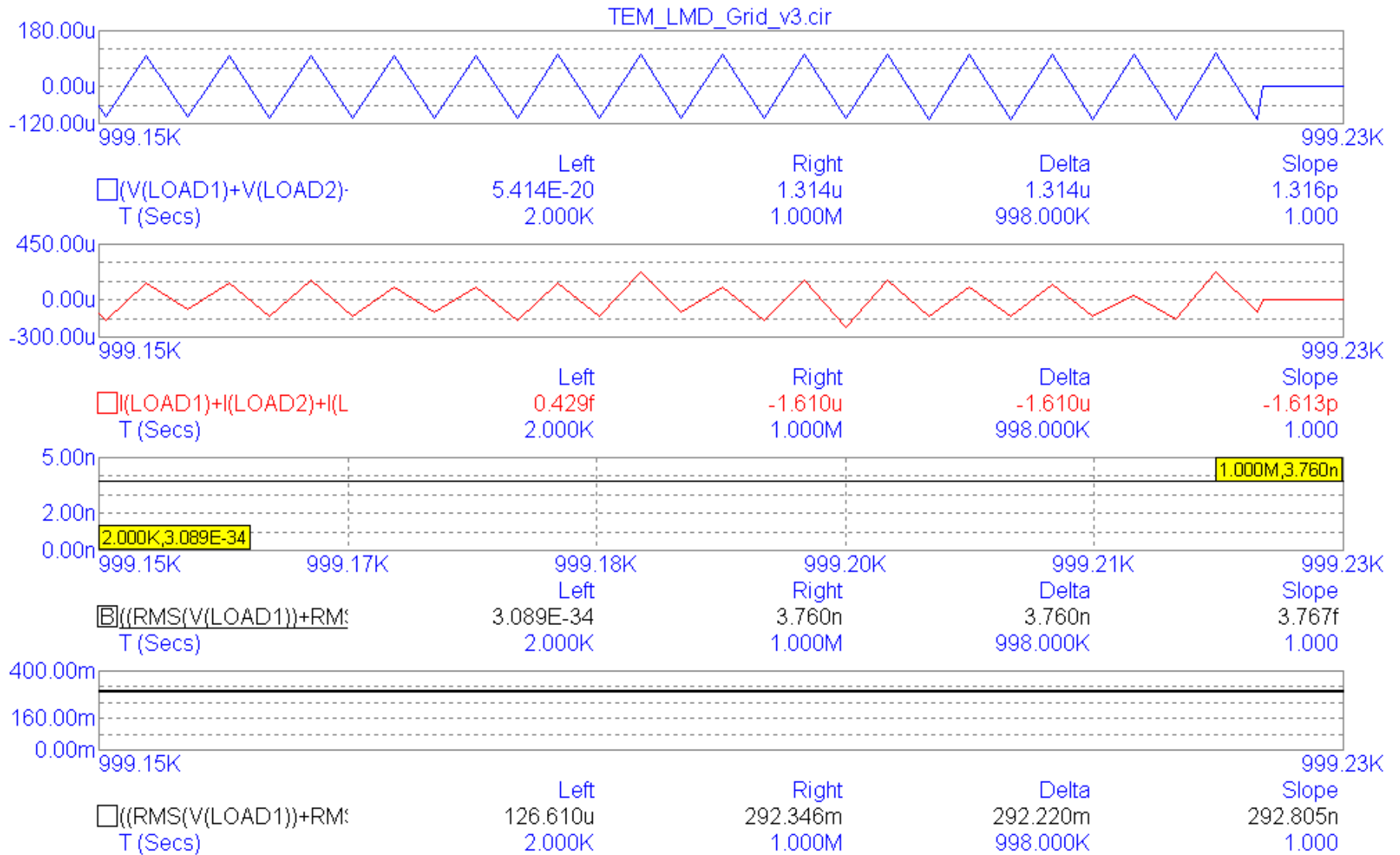


Left	Right	Delta	Slope
3.089E-34	3.760n	3.760n	3.767f
2.000K	1.000M	998.000K	1.000



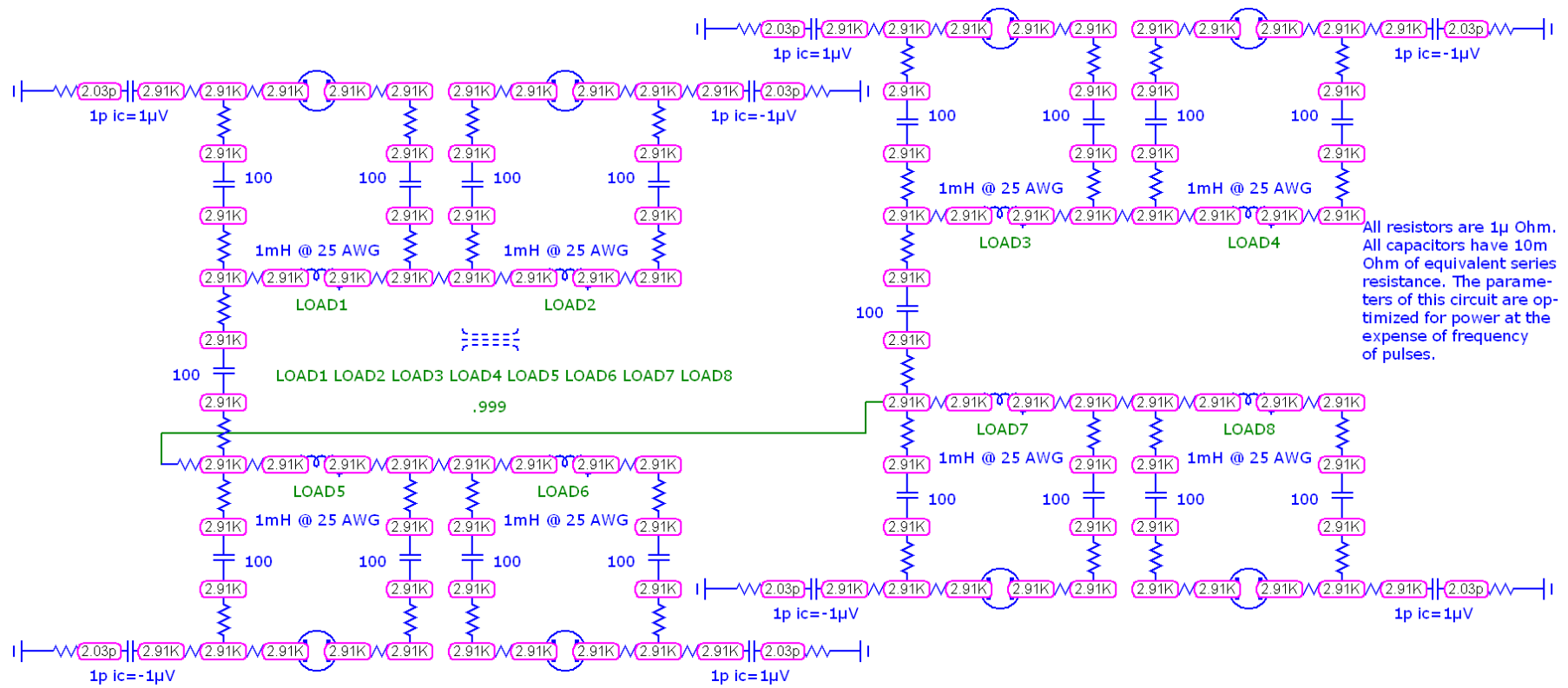
Left	Right	Delta	Slope
126.610u	292.346m	292.220m	292.805n
2.000K	1.000M	998.000K	1.000

A closeup view shows the lack of saturation of current within the inductive LOADs...



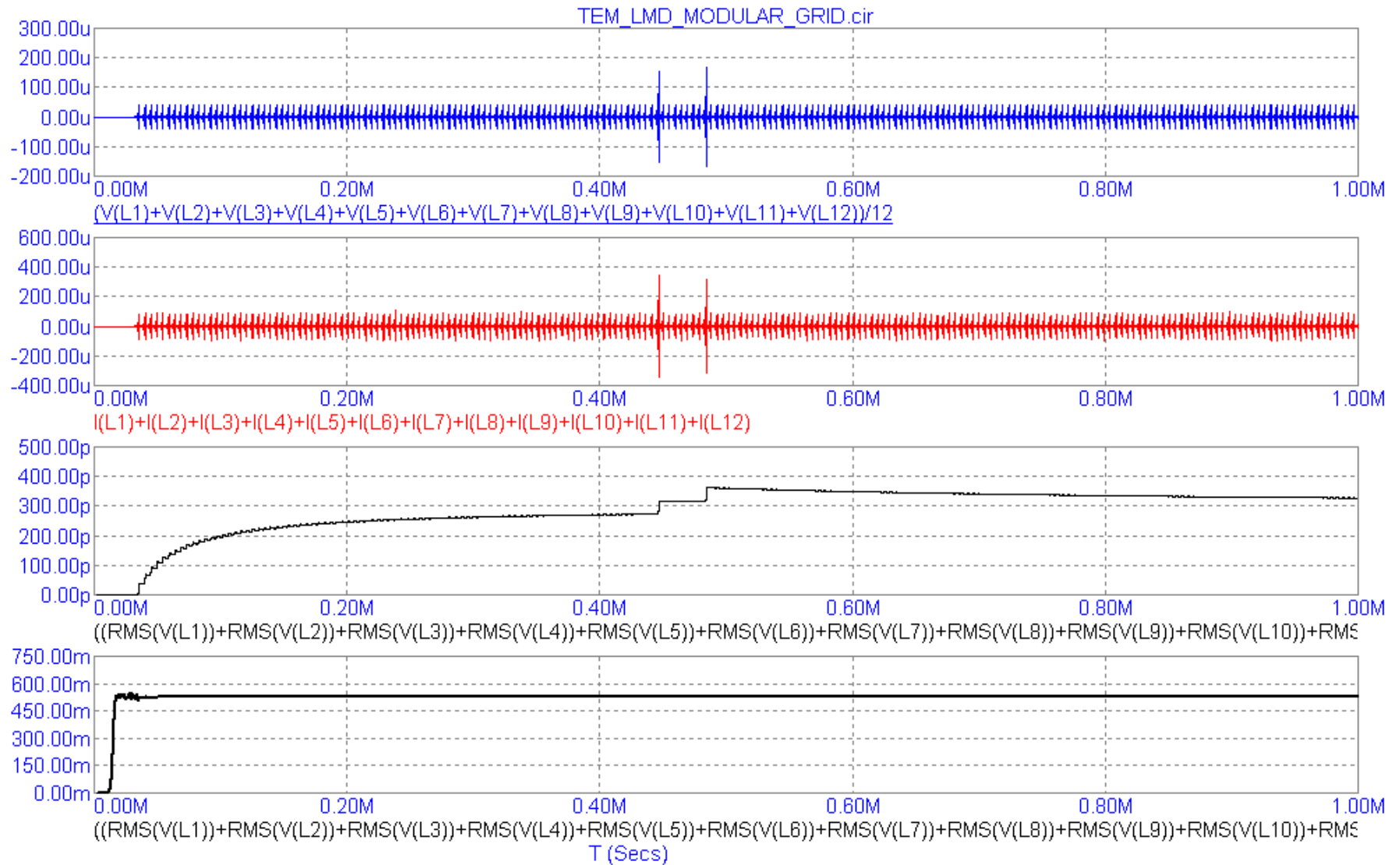


# Nodal voltages...

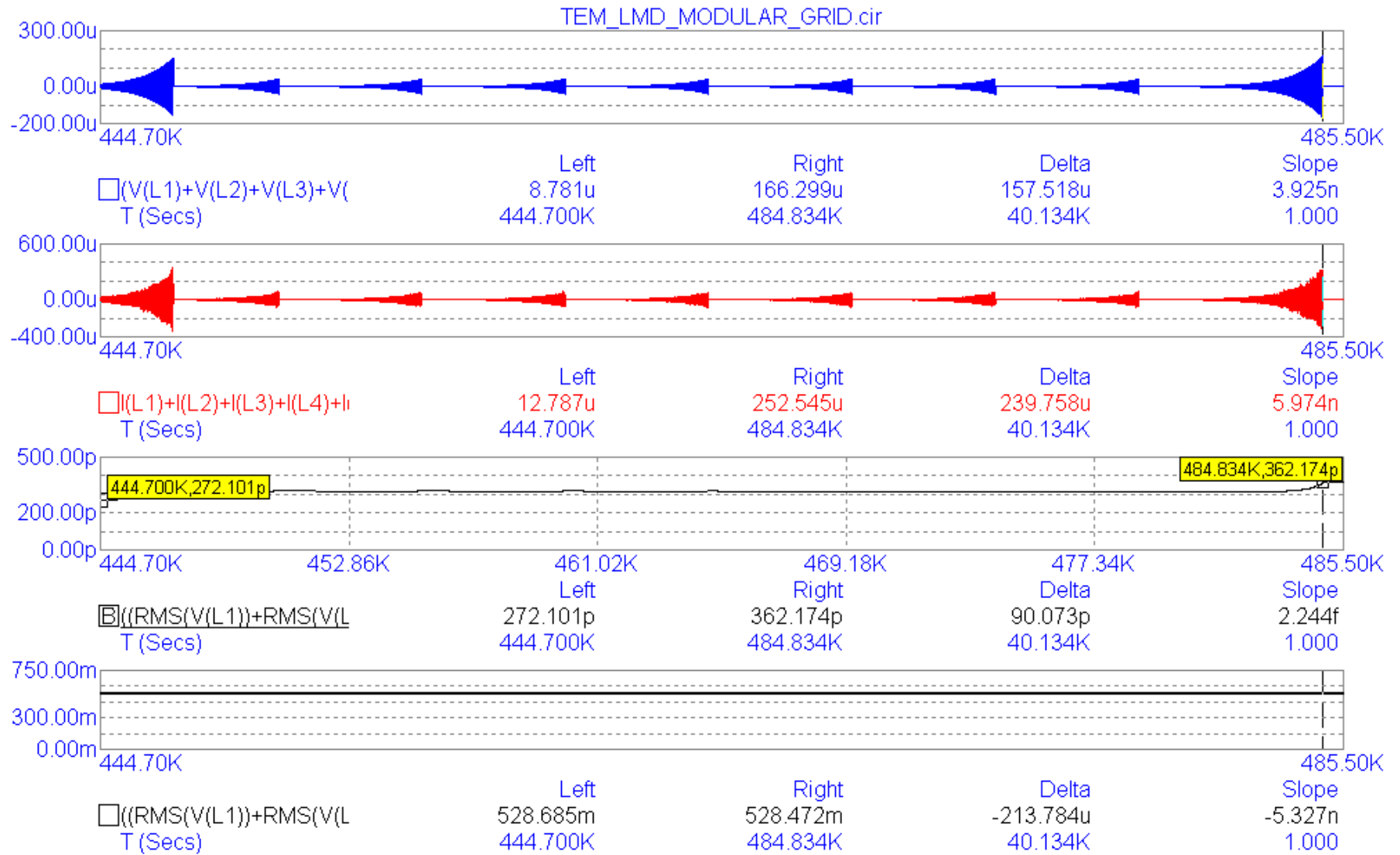


All resistors are 1µ Ohm.  
 All capacitors have 10m Ohm of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

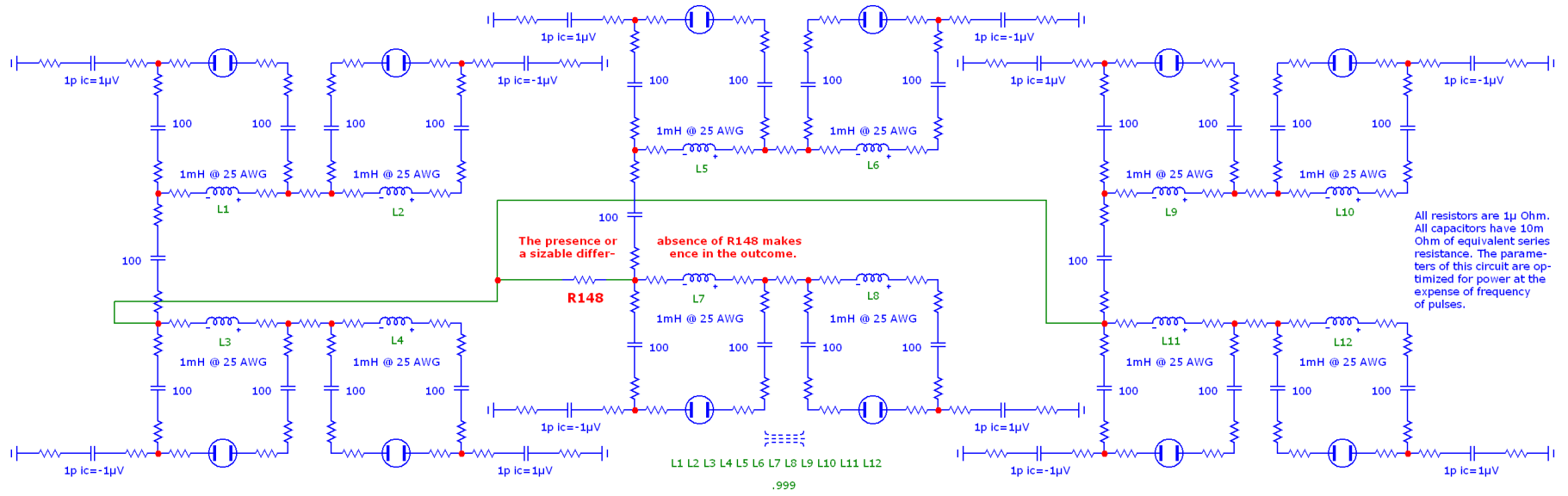
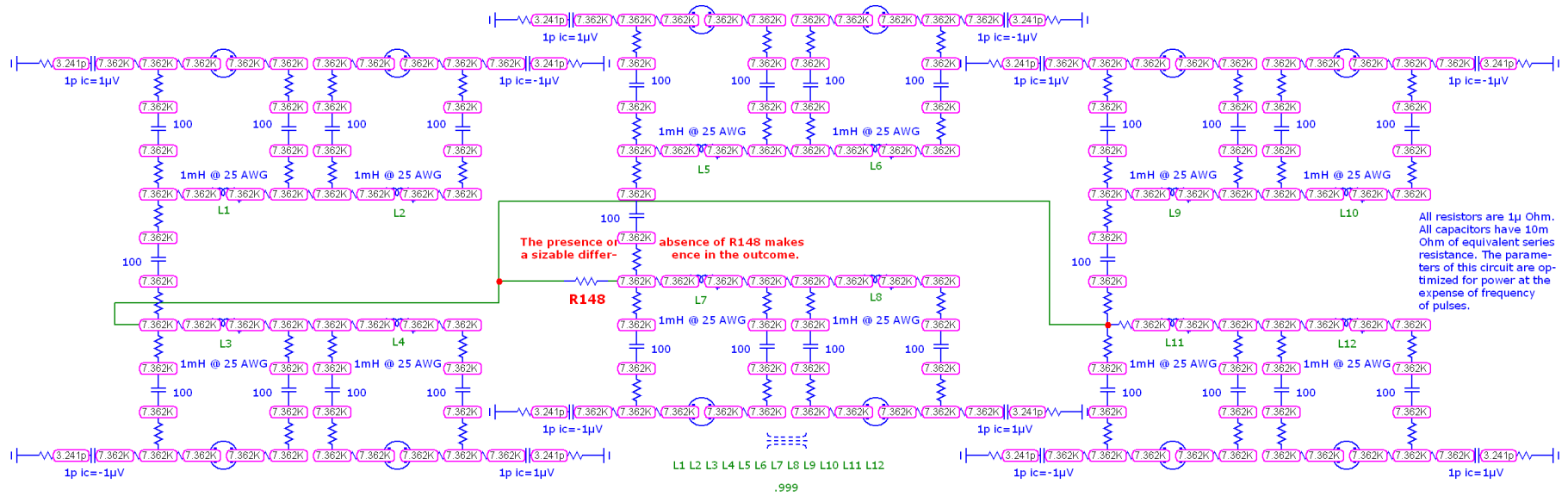
Twelve modules gives a slight improvement of output. This is to be expected since the number of modules has been increased by a mere factor of 50%...



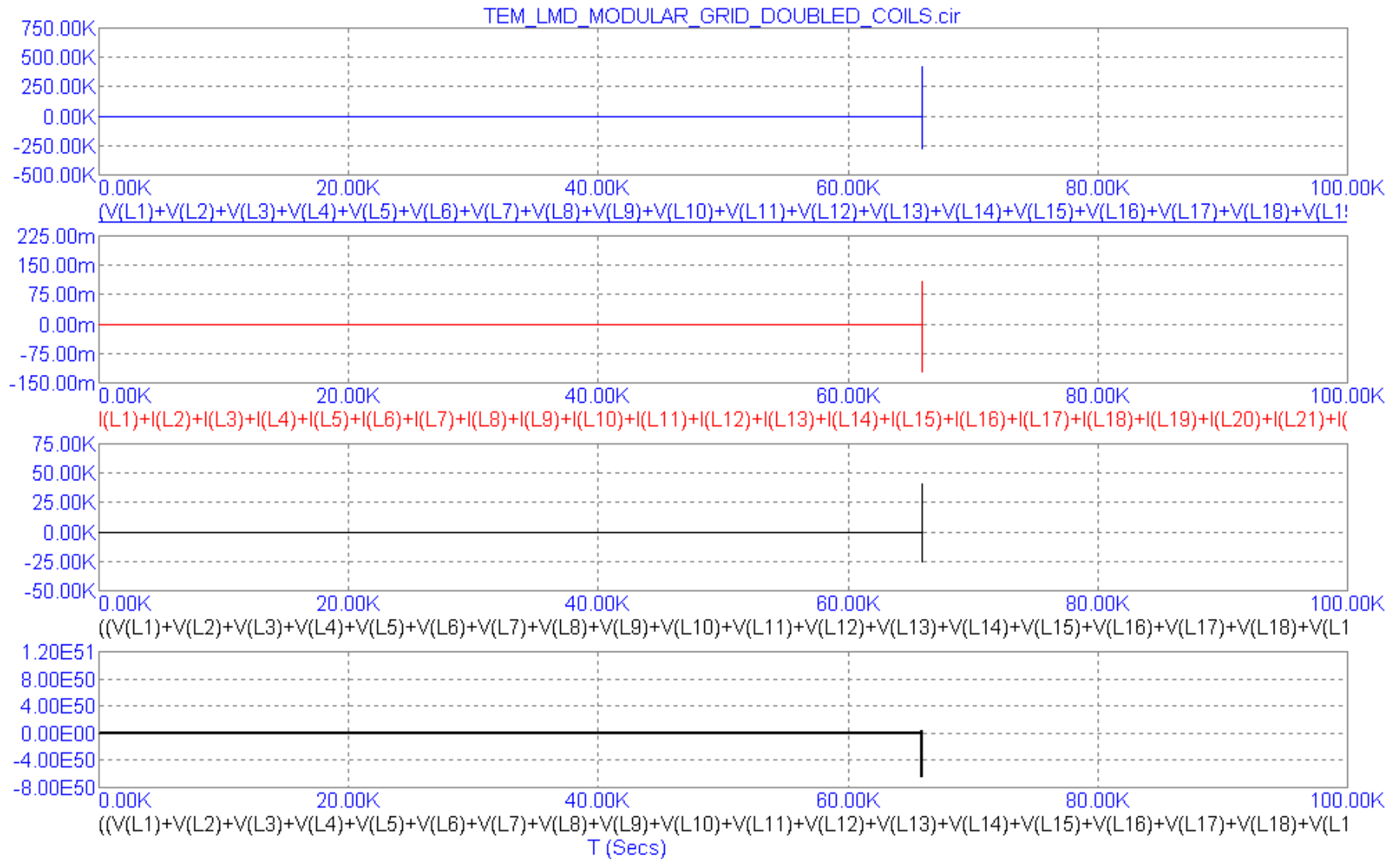
Closeup...

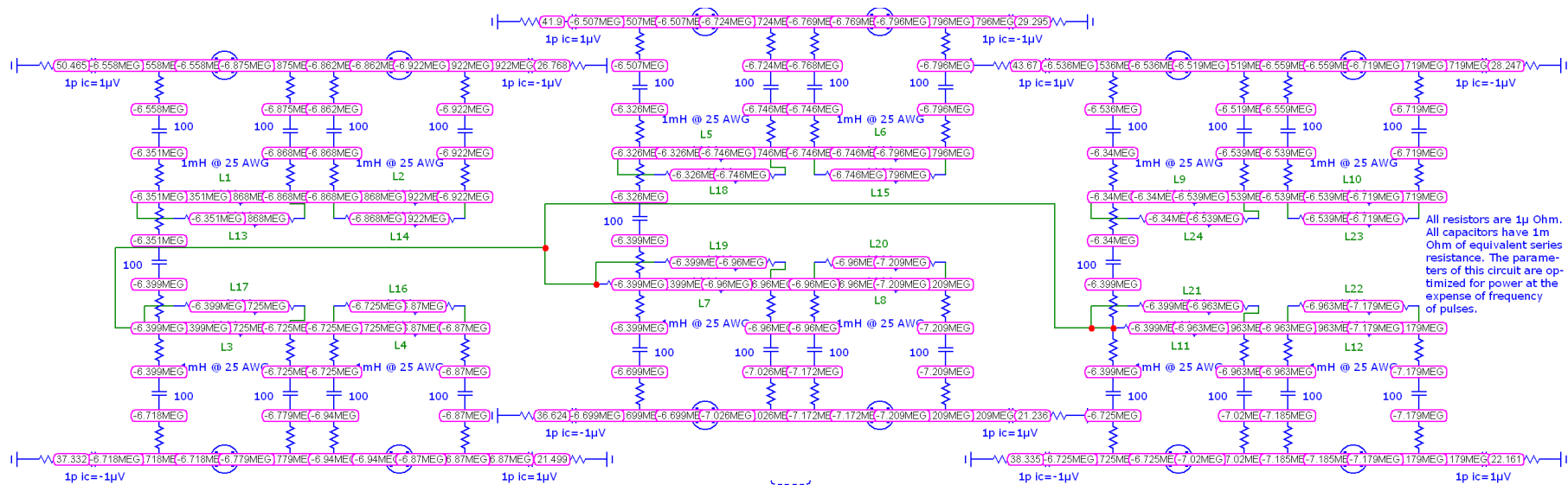


# Nodal voltages...



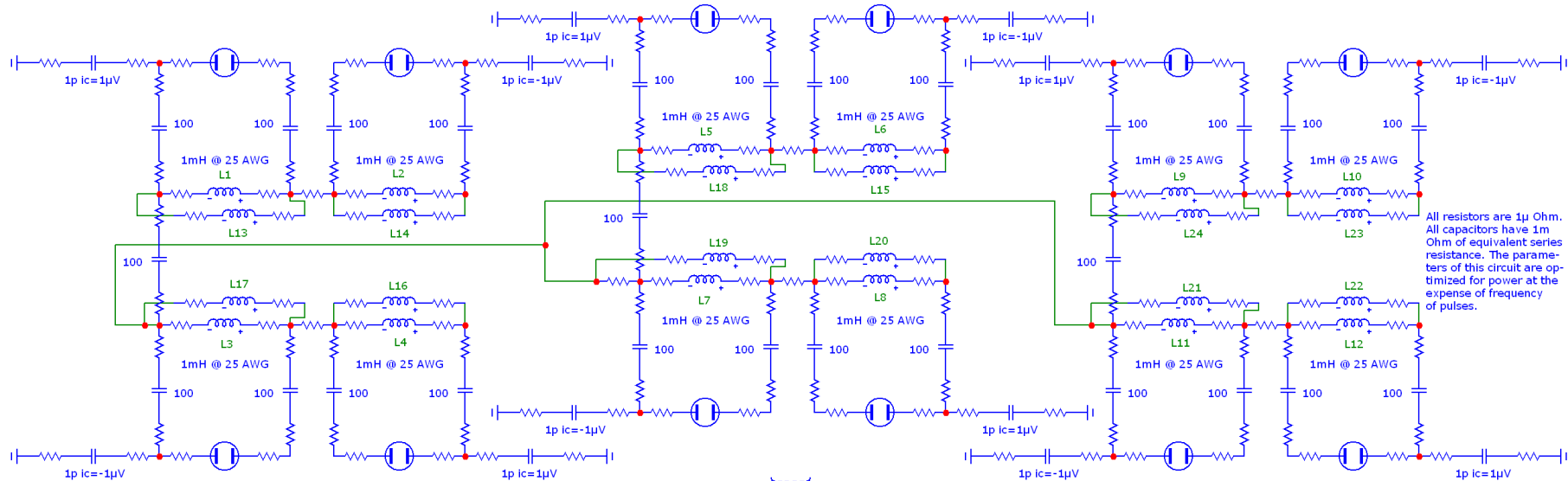
Lest anyone get a silly idea that this is not impressive, then please have a look at one of several *wrong* arrangements of assembling these modules which has the impact of destroying the delicate balance between this circuit becoming comatose versus exploding with ridiculous ferocity of output. The moral of this particular *error of design* is that: “greed and impatience do not always pay off”...





L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24

.999

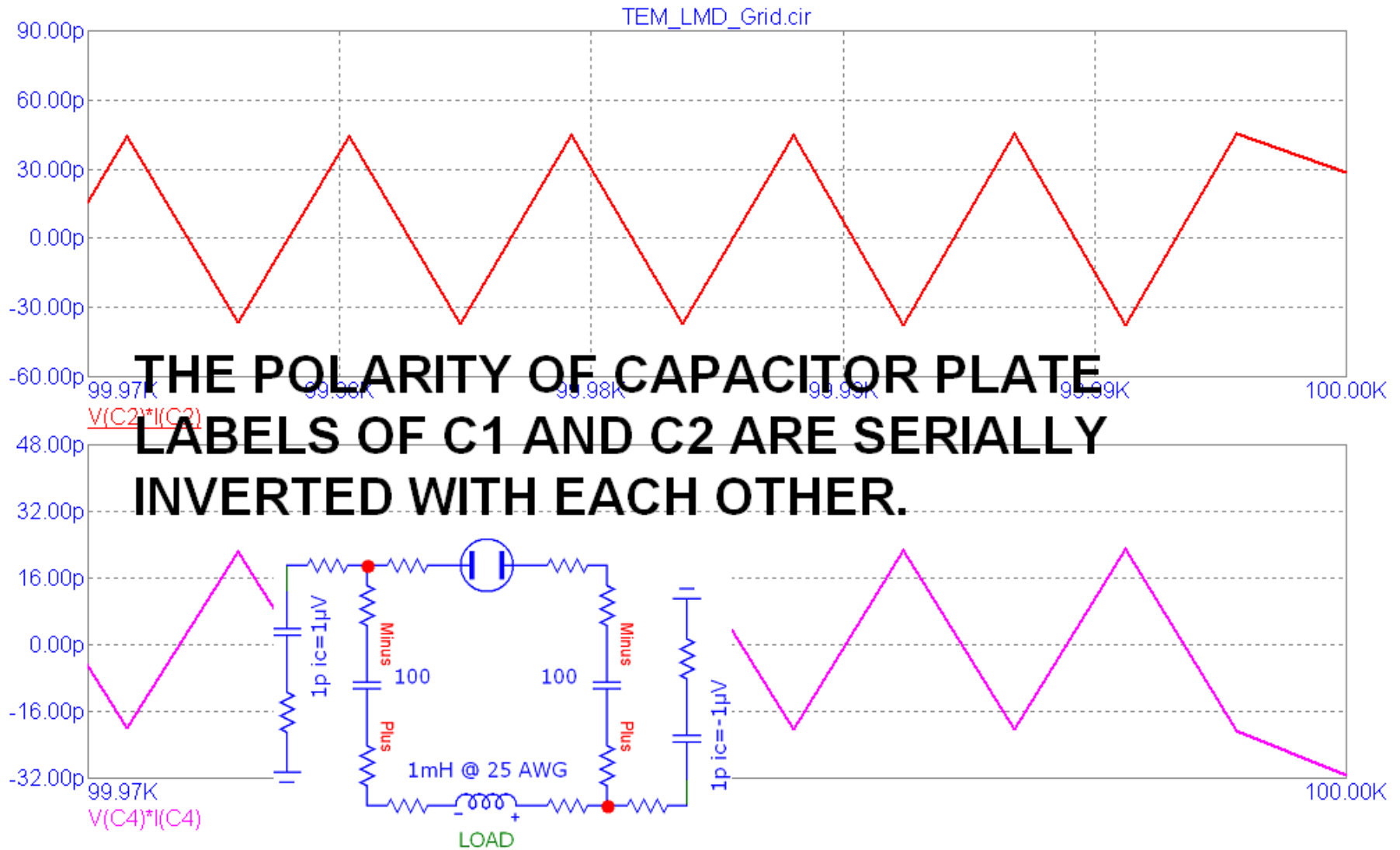


L1 L2 L3 L4 L5 L6 L7 L8 L9 L10 L11 L12 L13 L14 L15 L16 L17 L18 L19 L20 L21 L22 L23 L24

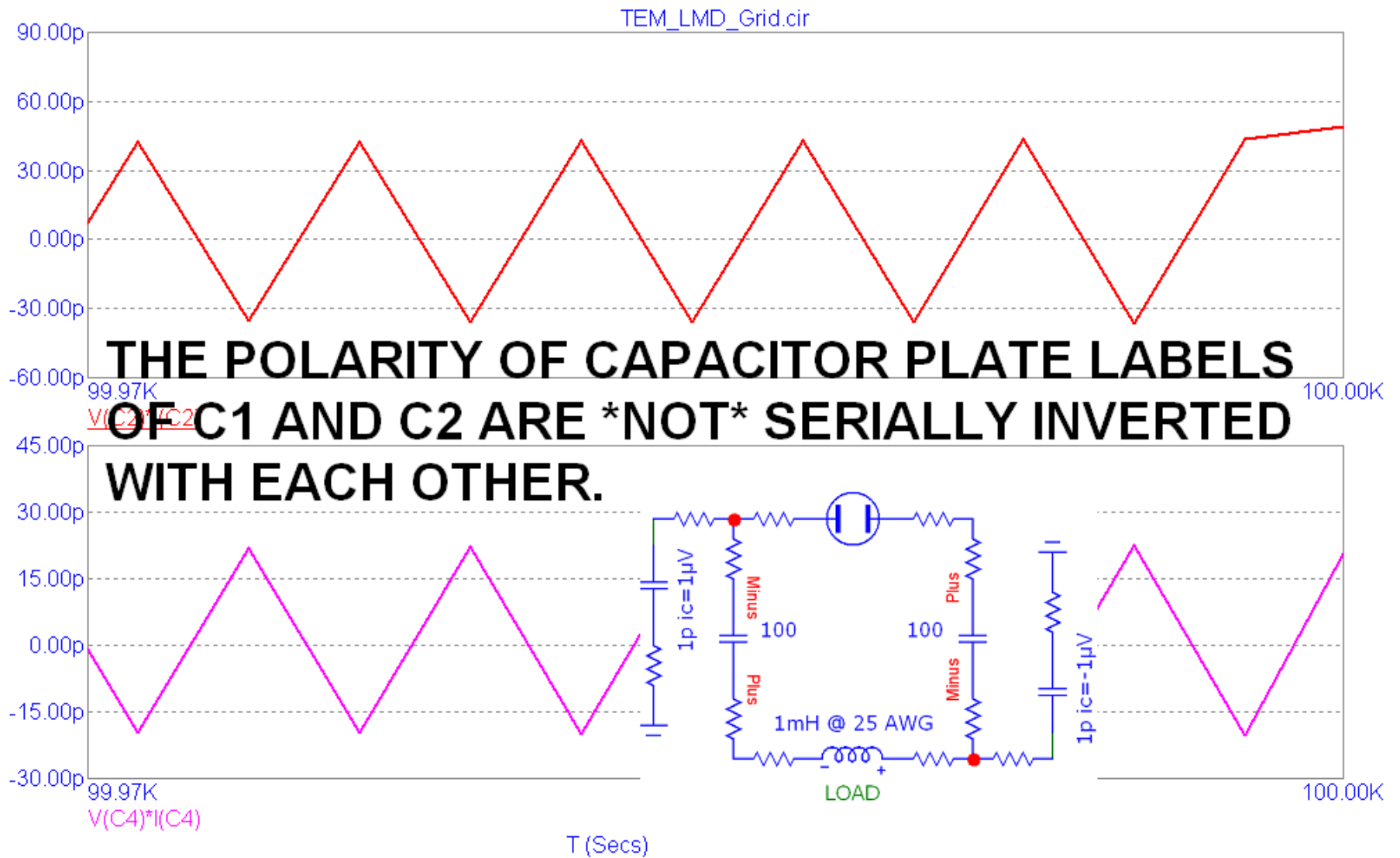
.999

## Where's the Extra Power Coming From?

It may be coming from either one of capacitors, C2 or C4, since at least one of them is exhibiting negative wattage...?

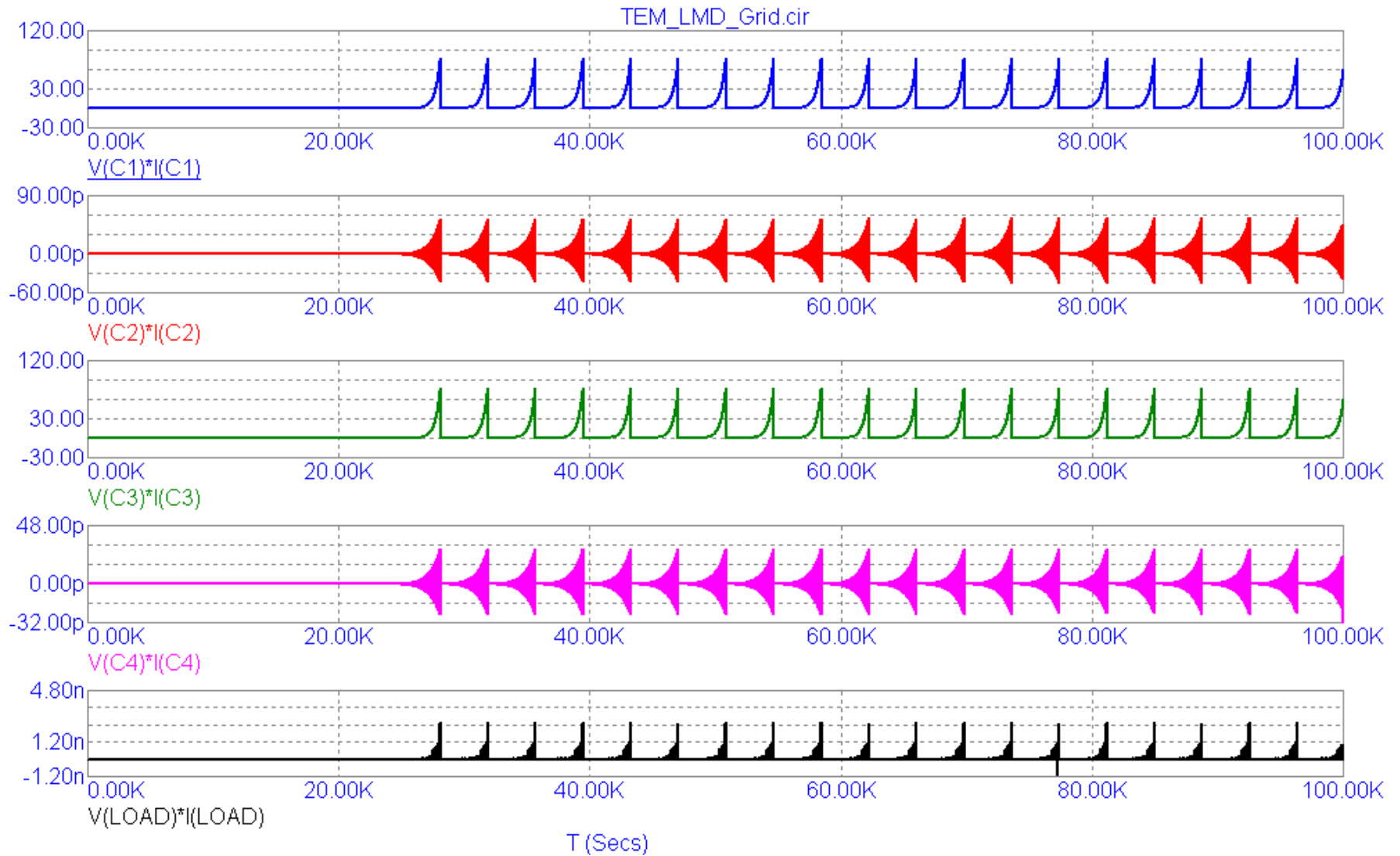


...despite any possible arrangement of the plate labels of these two capacitors...?



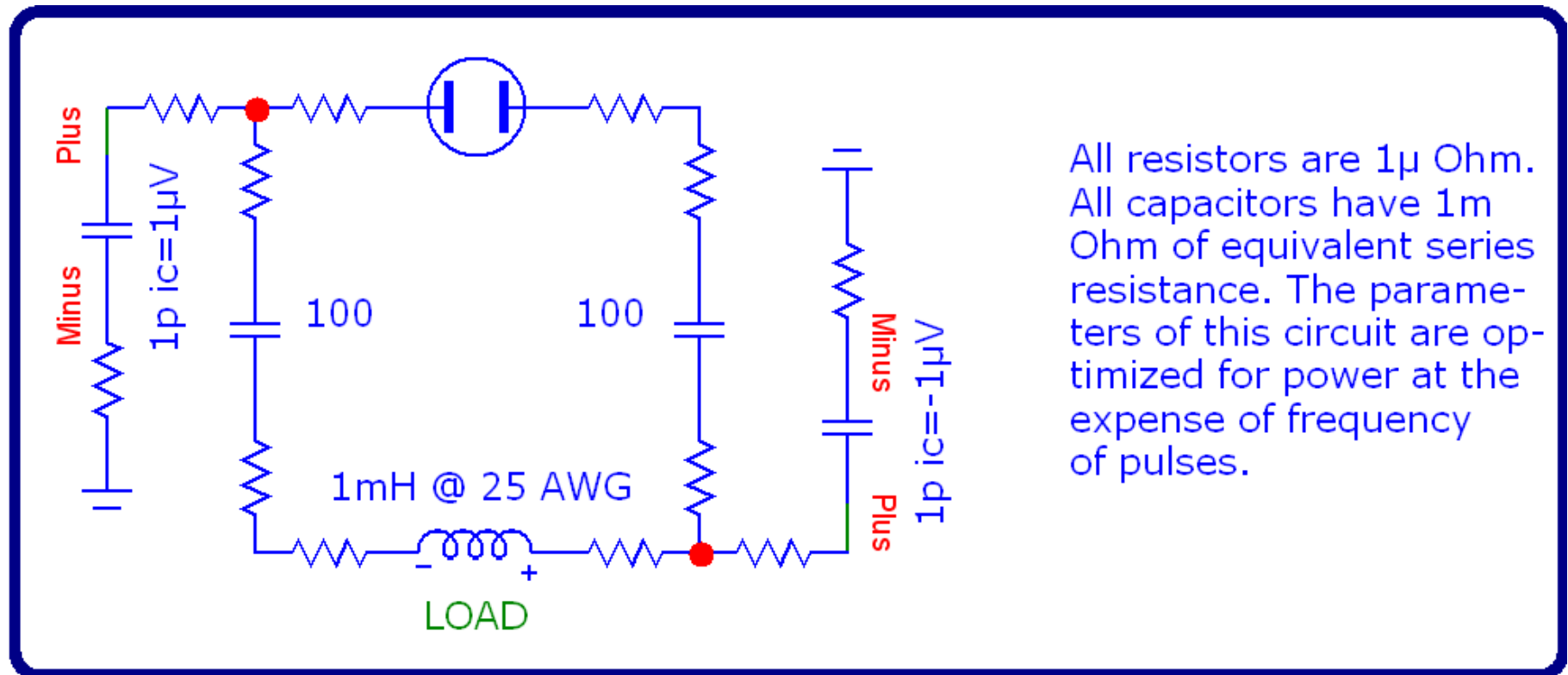


...and despite their outputs are less than the outputs of capacitors, C1 and C3, who are consuming a greater quantity of positive watts...?



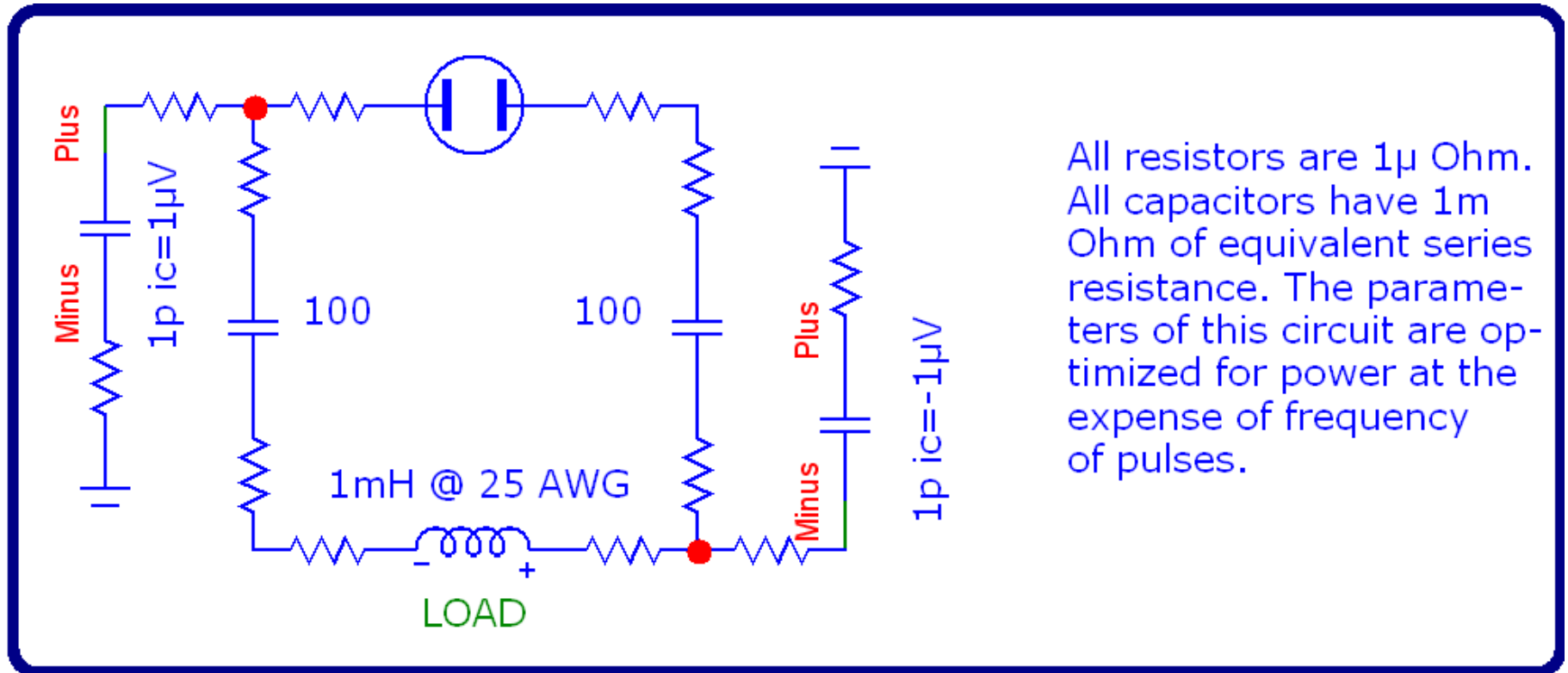
Maybe capacitors, C1 and C3, are to blame since they are accumulating a significant quantity of power while the scant negative wattage of capacitors, C2 and C4, plus the neon bulb's macro resistor, R3, are providing a very important SIGNAL of negative wattage? I don't know...

In the original schematic...



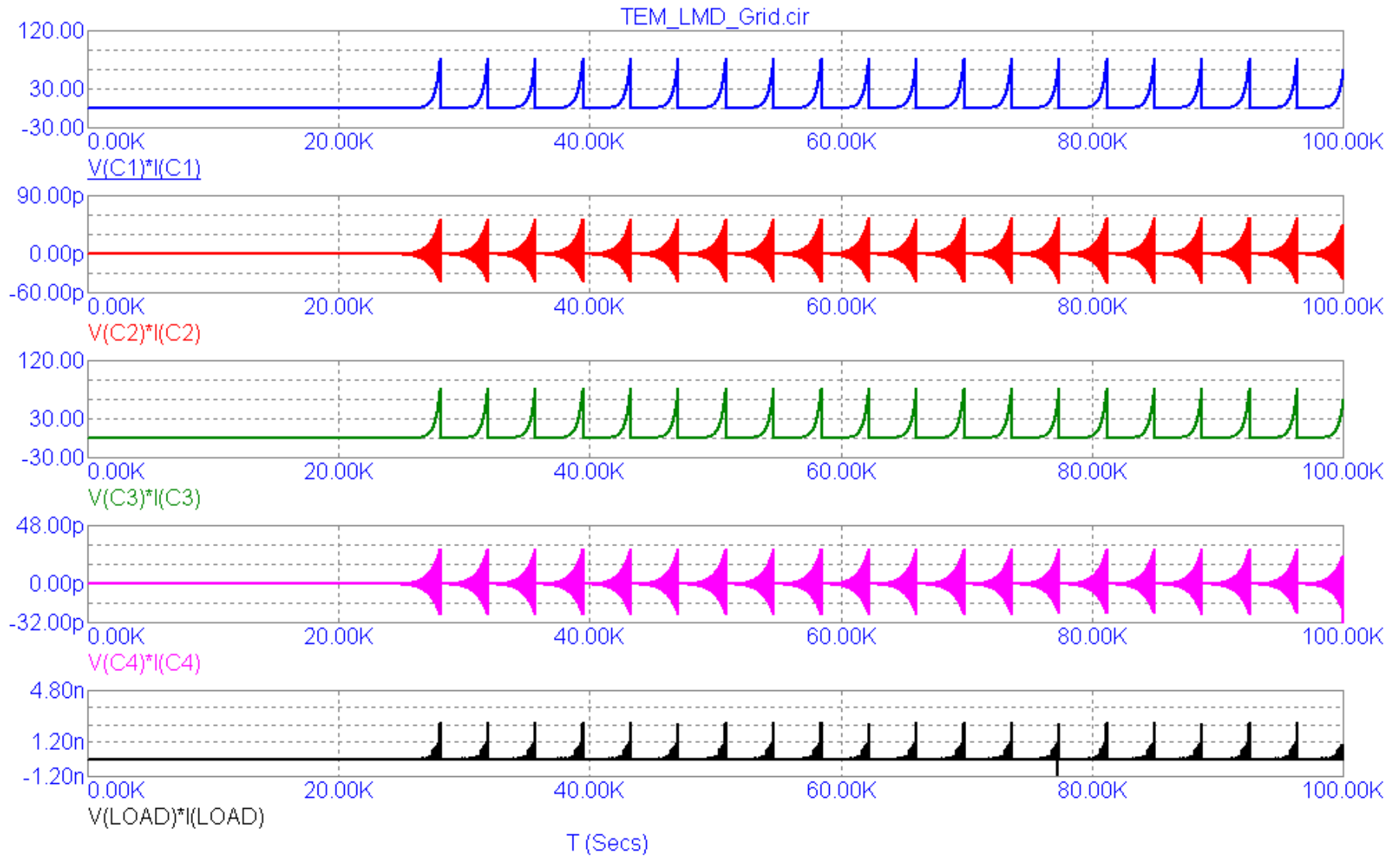
All resistors are  $1\mu$  Ohm. All capacitors have 1m Ohm of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

...if capacitor, C3, is turned around facing the opposite way (with inverted terminals),...

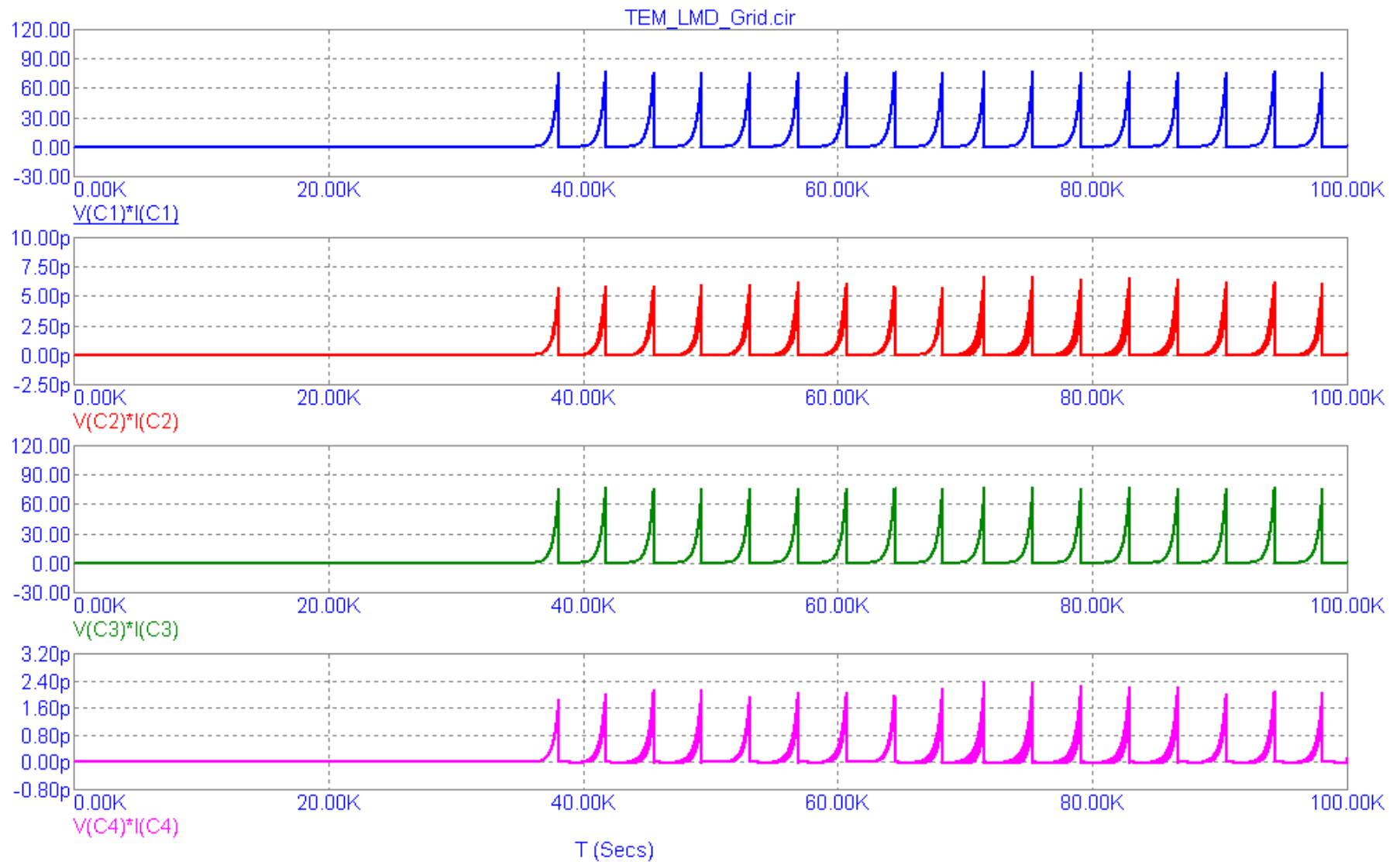


All resistors are 1μ Ohm. All capacitors have 1m Ohm of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

...then both capacitors, C2 and C4, no longer put out a wedge waveform which alternates with positive and negative polarity...



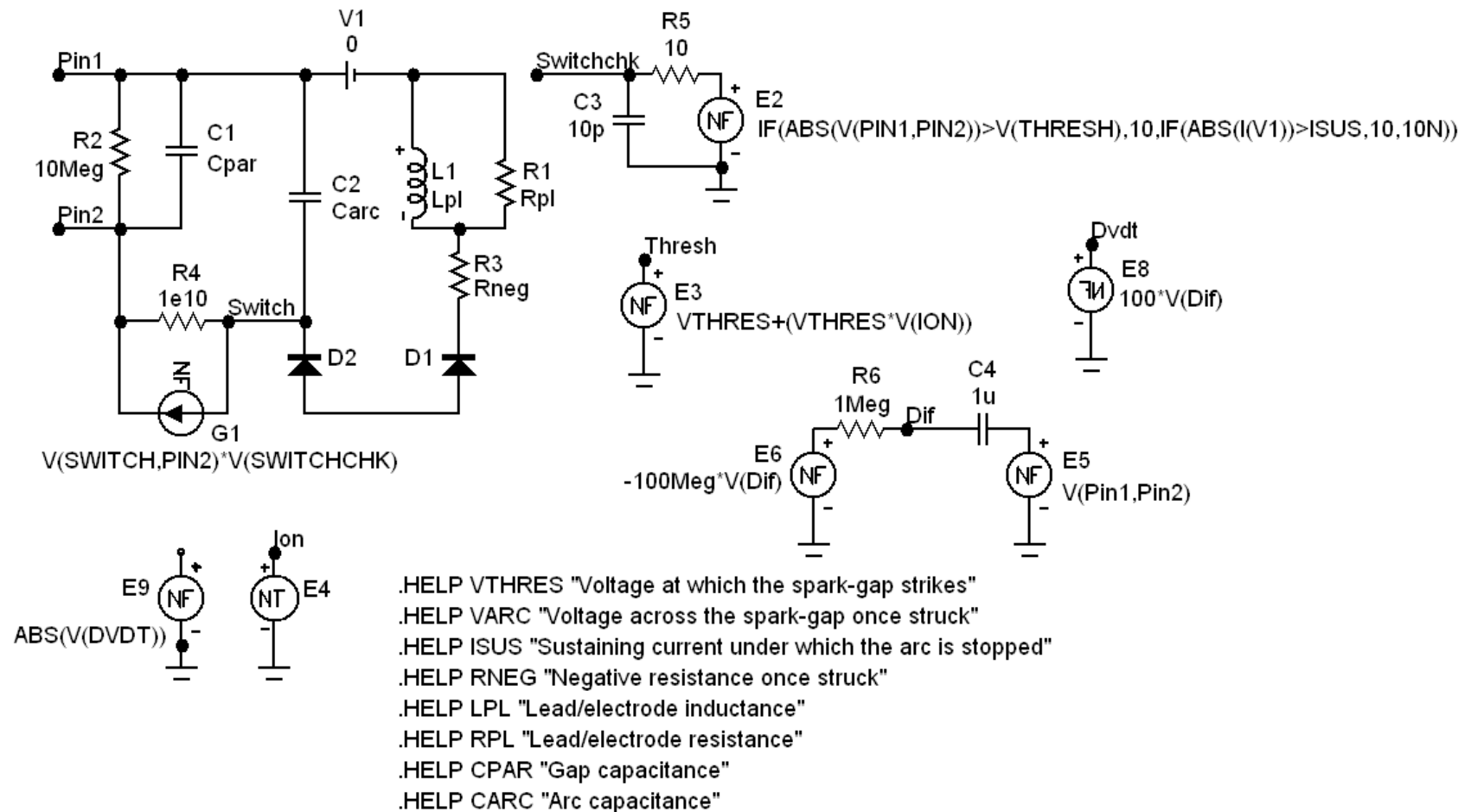
Instead, all four capacitors are diodic in character putting out a positively cresting waveform which suggests a dominant throughput...?



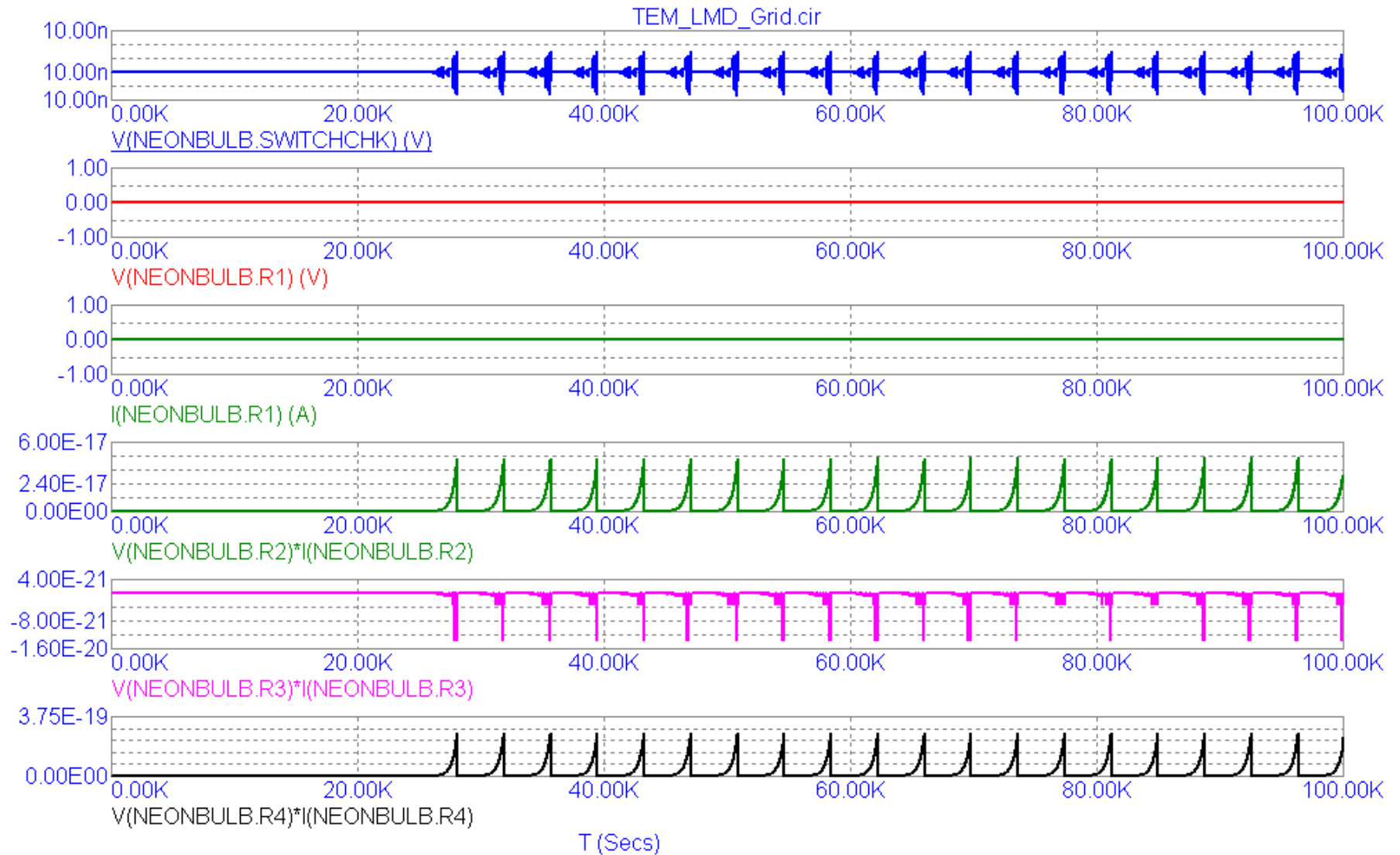
Peering into the macro, designed to emulate the behavior of a neon bulb spark gap...

## NEON BULB, SPARK GAP MACRO

.PARAMETERS(VTHRES=90, VARC=10, ISUS=500M,RNEG=-1,LPL=130N,RPL=2K,CPAR=1P,CARC=3P)

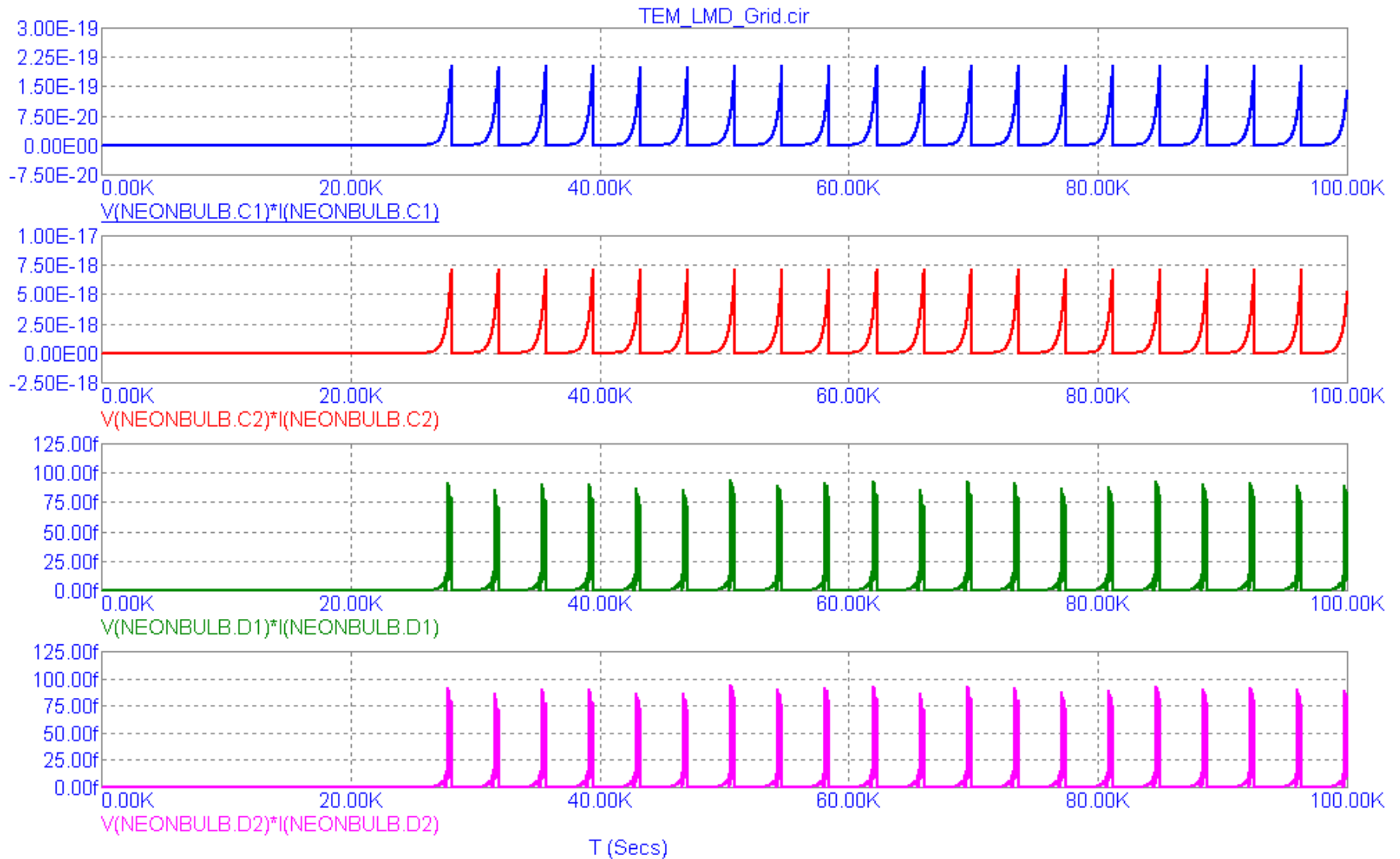


...I see no indication of any significant production of power (in the form of negative watts)...



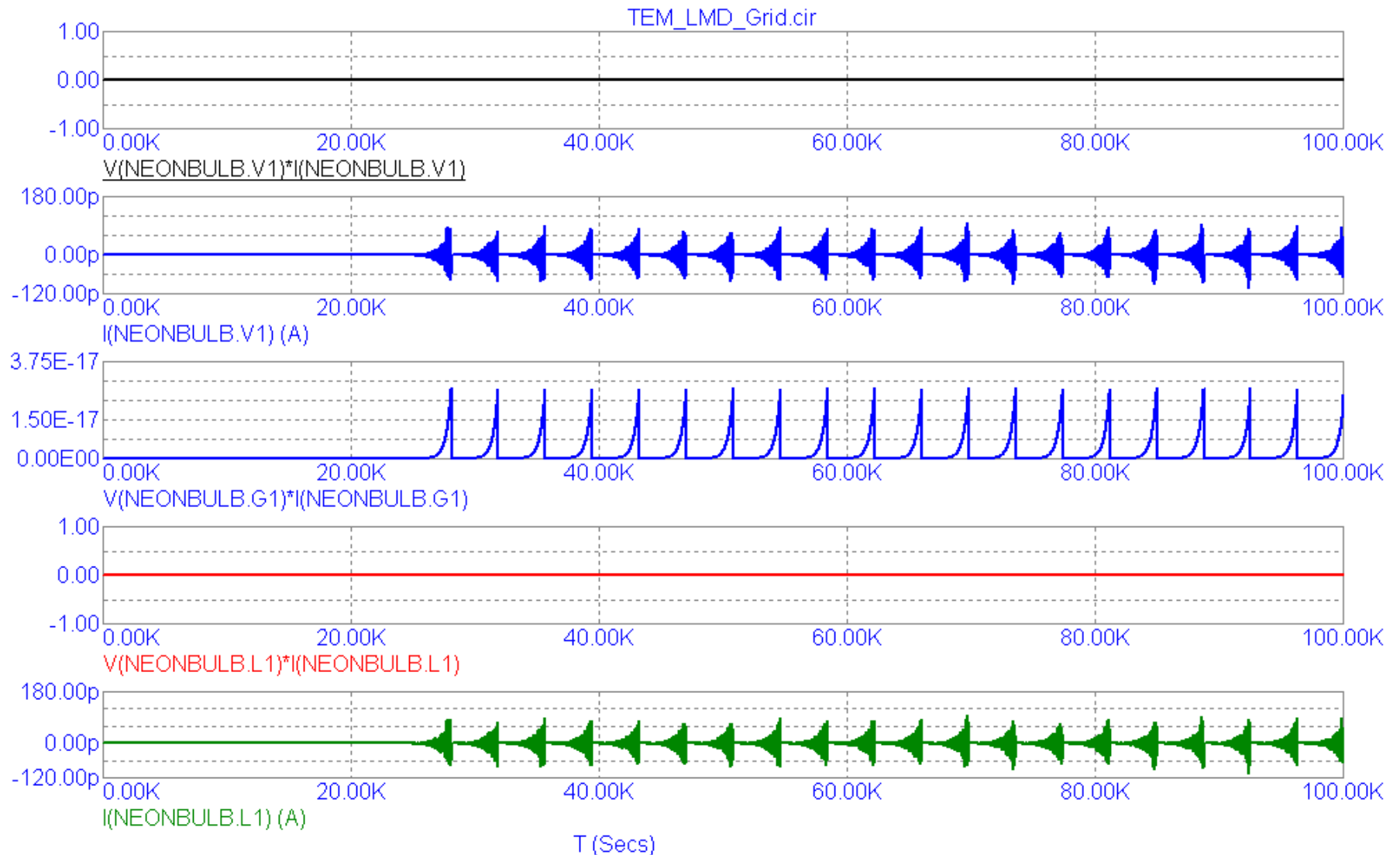
BTW, “NEONBULB.SWITCHCHK” would indicate that this spark gap is ON (arcing) if this node's voltage rises to 10V. In this case, this spark gap remains OFF all the time since this particular nodal voltage fails to rise that high. Instead, it remains at its OFF condition of hovering around 10nV.

Checking this neon bulb's diodes and capacitors continues to fail to reveal any indication of where this overunity circuit's extra power is coming from since the capacitors and the diodes of this spark gap are all exhibiting positive watts and the consumption of power...

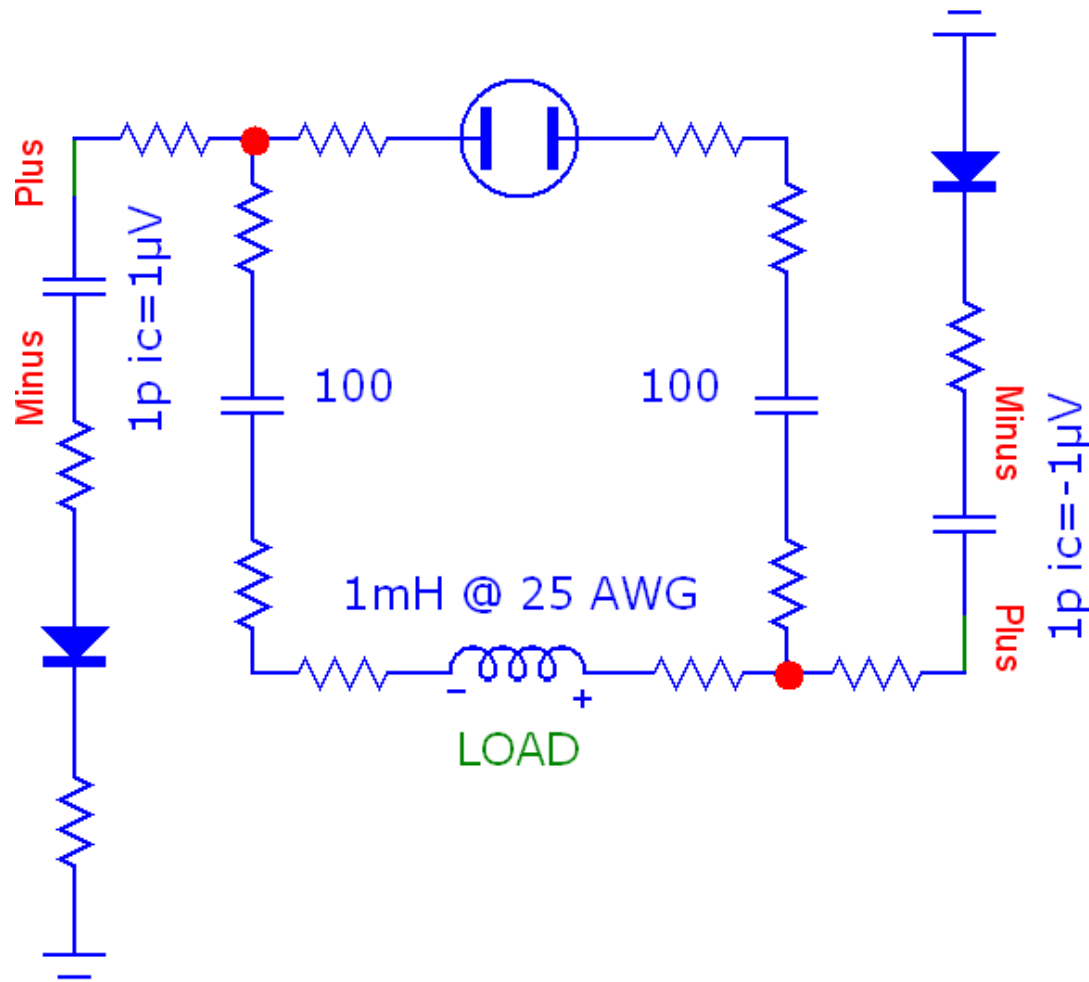




This last chart of virtual oscilloscope tracings reveals no source of negative watts, yet indicates that the spark gap's electrodes (emulated by inductor, "NEONBULB.L1") are failing to pass any current since they are not receiving any voltage despite the presence of a negative resistor, nearby, at "NEONBULB.R3". I guess the overall power production, at resistor "NEONBULB.R3", is insufficient to overwhelm the zero voltage of "NEONBULB.V1"...?



Another way to make the singular module explode is to add diodes...



All resistors are  $1\mu\text{ Ohm}$ . All capacitors have  $1\text{m Ohm}$  of equivalent series resistance. The parameters of this circuit are optimized for power at the expense of frequency of pulses.

TEM\_LMD\_GRID\_2-DIODES.cir

