LTspice netlist Page 1

```
Wien Bridge Oscillator
*With Diode Amplitude Limiter
Cp 3 0 1n IC=0
Rp 3 0 25.5k
Cs 3 36 1n IC=0
Rs 36 6 25.5k
R1 2 0 10k
R2 2 6 22k
XOA 3 2 7 4 6 TL071
VCC 7 0 DC 15
VEE 4 0 DC -15
D1 2 8 d1n4148
D2 9 2 d1n4148
Ra 6 8 1.5k
Rb 8 7 10k
Ra1 6 9 1.5k
Rb1 9 4 10k
.model d1n4148 D(is=1n bv=100 n=1.8)
* TL071 OPERATIONAL AMPLIFIER "MACROMODEL" SUBCIRCUIT
* CREATED USING PARTS RELEASE 4.01 ON 06/16/89 AT 13:08
* (REV N/A) SUPPLY VOLTAGE: +/-15V
* CONNECTIONS: NON-INVERTING INPUT
* | INVERTING INPUT
* | POSITIVE POWER SUPPLY
* | | NEGATIVE POWER SUPPLY
* | | | |
.SUBCKT TL071 1 2 3 4 5
C1 11 12 3.498E-12
C2 6 7 15.00E-12
DC 5 53 DX
DE 54 5 DX
DLP 90 91 DX
DLN 92 90 DX
DP 4 3 DX
EGND 99 0 POLY(2) (3,0) (4,0) 0 .5 .5
FB 7 99 POLY(5) VB VC VE VLP VLN 0 4.715E6 -5E6 5E6 5E6 -5E6
GA 6 0 11 12 282.8E-6
GCM 0 6 10 99 8.942E-9
ISS 3 10 DC 195.0E-6
HLIM 90 0 VLIM 1K
J1 11 2 10 JX
J2 12 1 10 JX
R2 6 9 100.0E3
RD1 4 11 3.536E3
RD2 4 12 3.536E3
RO1 8 5 150
RO2 7 99 150
RP 3 4 2.143E3
RSS 10 99 1.026E6
VB 9 0 DC 0
VC 3 53 DC 2.200
VE 54 4 DC 2.200
```

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```
VLIM 7 8 DC 0

VLP 91 0 DC 25

VLN 0 92 DC 25

.MODEL DX D(IS=800.0E-18)

.MODEL JX PJF(IS=15.00E-12 BETA=270.1E-6 VTO=-1)

.ENDS TL071

.TRAN 0 4m UIC

.PROBE

.END
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