

```
.SUBCKT 6L6GC 1 2 3 4 ; P G1 C G2
```

```
MU=8.7 EX=1.35 KG1=1460 KG2=4500 KP=48 KVB=12 CCG=14P CPG1=.85P CCP=12P  
+ RGI=1K
```

```
RE1 7 0 1MEG ; DUMMY SO NODE 7 HAS 2 CONNECTIONS
```

```
E1 7 0 VALUE= ; E1 BREAKS UP LONG EQUATION FOR G1.
```

```
{V(4,3)/KP*LOG(1+EXP((1/MU+V(2,3)/V(4,3))*KP))}
```

```
G1 1 3 VALUE={ (PWR(V(7),EX)+PWRS(V(7),EX))/KG1*ATAN(V(1,3)/KVB) }
```

```
G2 4 3 VALUE={ (EXP(EX*(LOG((V(4,3)/MU)+V(2,3)))))/KG2 }
```

```
RCP 1 3 1G ; FOR CONVERGENCE
```

```
C1 2 3 {CCG} ; CATHODE-GRID 1
```

```
C2 1 2 {CPG1} ; GRID 1-PLATE
```

```
C3 1 3 {CCP} ; CATHODE-PLATE
```

```
R1 2 5 {RGI} ; FOR GRID CURRENT
```

```
D3 5 3 DX ; FOR GRID CURRENT
```

```
.MODEL DX D(IS=1N RS=1 CJO=10PF TT=1N)
```

```
.ENDS
```