

Listing 1--Dc/dc converter Spice netlist

```
.SUBCKT NME0505 1 2 3 4
DOUT 5 3 NCLD105
.MODEL NCLD105 D (IS=1E-7 N=2.3 RS=2.8
+ EG=1.11 XTI=3 BV=50 IBV=25.9E-3 TT=2E-9)
COUT 3 4 0.5UF
E1 6 4 1 2 1.25
F1 1 2 VRPL -1.25
RNL 2 1 250
CIN 2 1 0.5UF
VRPL 5 6 DC 0 PULSE -0.68 0.02 0 0.25US 0.25US 4.5US 5US
CISOL 1 3 24PF
.ENDS NME0505
```