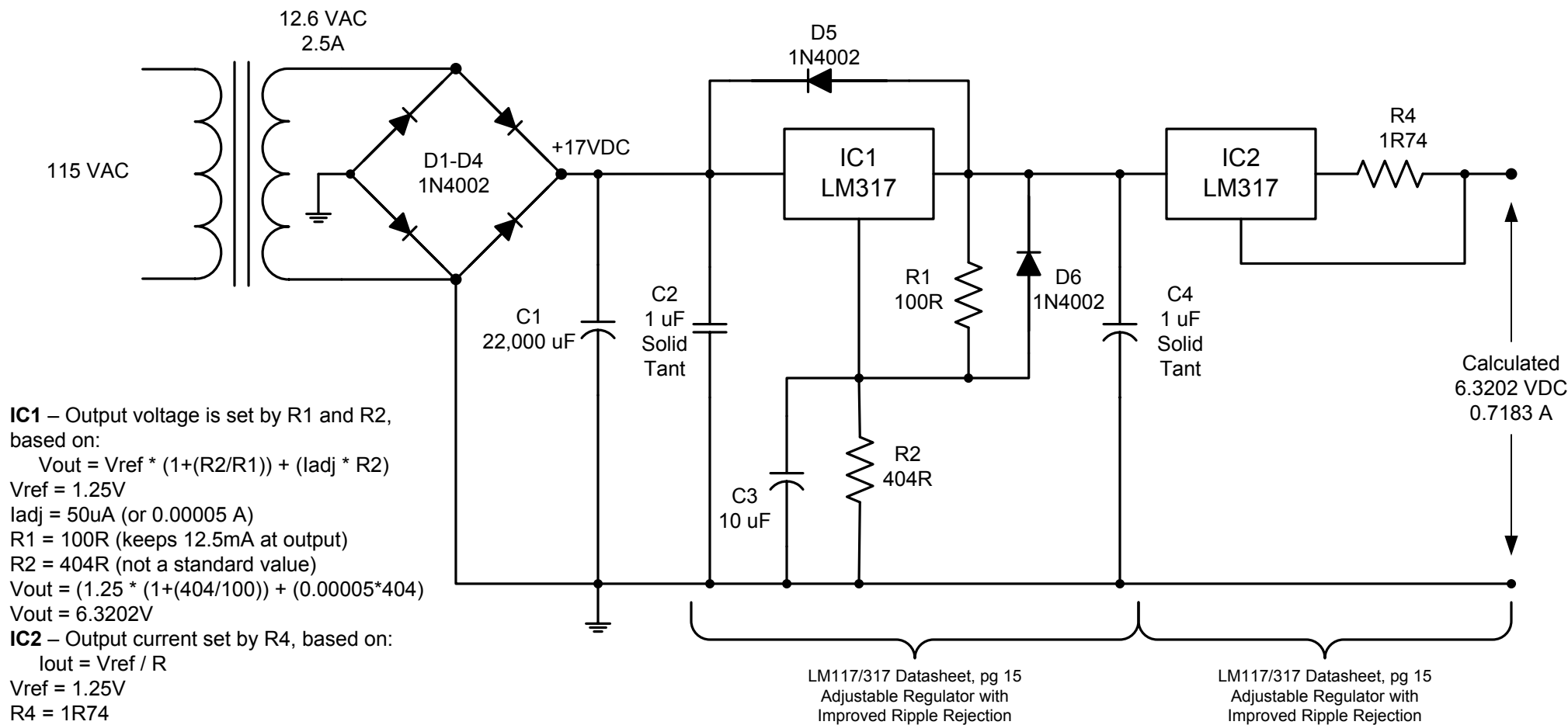


DC Heater Source using LM317 Regulators



Design Requirements:

6.3V heaters for 4 tubes, each drawing 0.18A, or 0.72A total

Limits:

LM317 $V_{in} - V_{out} \leq 15V$, 2.2A (T package)

LM338 $V_{in} - V_{out} \leq 10V$, 8A ($V_{ref}=1.24V$, $I_{adj}= 45 \mu A$)